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6237

26 W. Jersey St.

1913



G Griffith AND Turner Co.

ESTABLISHED
1860
CATALOGUE
No. 26



FARM AND GARDEN

SUPPLIES

GENERAL OFFICES, 205-215 N. PACA ST.
BRANCH HOUSE, 366 N. GAY ST.

BALTIMORE, MD.

Prospective Customers who are not rated in the Commercial agencies will save time in having their goods shipped by accompanying their Orders either with the Cash or satisfactory references. Baltimore references preferred.

NOTICE.—We make a specialty of quoting on complete outfits. **SEND FOR PRICES.**

FILLING ORDERS.—Every order is filled and forwarded as promptly as possible, but if not duly received, please notify us and we will make every effort to trace it without delay. Do not fail to sign your name and give full address.

PACKING AND SHIPPING.—We make no charge for boxes or packing of retail orders, and deliver all goods to any railroad or steamboat free of charge. We charge for cotton bags as follows: Peck and ½ bushel, 10 cents each; 1 bushel, 15 cents each; 2 bushels, 20 cents each.

HOW TO REMIT.—Remittances should be made by draft, Express Money Order, P. O. Money Order or Registered Letter.

WE PAY THE POSTAGE TO ANY POST OFFICE IN THE UNITED STATES ON ALL VEGETABLES AND FLOWER SEEDS, by the Packet, Ounce or Quarter Pound. On quantities over quarter pound the purchaser pays the postage at a rate of 8 cents per pound. On Beans, Peas and Corn, 8 cents per pint or 15 cents per quart should be added to Catalogue Prices to pay postage.

ON EVERY ORDER be sure to **SIGN YOUR NAME** and give your address **PLAINLY**, as we frequently receive orders lacking either or both; also give full shipping instructions, State if by freight or express and give route. This saves delay.

PRICES TO MARKET GARDENERS.—Market gardeners, and all purchasers of Seeds in large quantities, should submit us a list of their wants and we will name them special prices.

TIME FOR SOWING IN THE OPEN GROUND.

THESE DIRECTIONS apply to the vicinity of Baltimore and Philadelphia. South of this they should be sown earlier, and North later.

BEANS.—From 1st of May till August.

BEETS.—Soon as ground can be worked in spring.

CABBAGE.—For early use, sow in hot bed in February and transplant in April to open ground; for late use, sow in May or June.

CAULIFLOWER.—Sow about the same time as Cabbage. For late crop sow in June, and they will head up in cool weather, and escape injury from the heat.

CARROT. For early, sow from 1st of April to middle of May, and for late crop in June or July.

CELERY.—Sow as soon as the ground is open in spring, and transplant in July.

CUCUMBER.—Sow about 1st of May for early, and for pickling, in July.

LETTUCE.—Sow as soon as ground can be worked in spring, and at intervals as desired.

MELONS.—Sow in May and June.

ONIONS.—Sow early as possible in spring.

PARSNIP.—Soon as ground can be worked.

PEAS. Sow in March, and at intervals through the season, as desired.

PUMPKIN.—Plant in May or June.

RADISH.—Soon as ground is ready, and all through the season, at intervals.

SQUASH.—Soon as ground is warm.

TOMATO. Sow in hot bed in March, and transplant about middle of May.

TURNIP.—For early use, in April; for main crop July and August.

TO COUNTRY MERCHANTS.

WE PUT UP VEGETABLE SEEDS in papers for the Country Trade in quantities to suit purchasers.

Our seeds are select and tested, and give satisfaction wherever used.

Beans, Peas, Corn, etc., in bulk, at lowest wholesale rates. Write for special quotations in quantities.

Should you have placed your order for small papers for this year, we will be pleased to fill any shortage you may have, and solicit your patronage for another season.

HINTS ON TRANSPLANTING TREES.

The proper season for transplanting fruit trees is during the months of February, March and April in the spring, and October, November and December in the autumn.

PROPER AGE AND SIZE OF TREES FOR TRANSPLANTING.

Experience has taught observing planters that a small, young tree, set at the same time, will in a few years overtake and pass a large one, and continue more vigorous and productive. Large trees are necessarily or unavoidably more injured in digging than small ones. The latter can be moved with their system of roots almost entire.

NUMBER OF TREES AND PLANTS TO AN ACRE.

3 ft. each way	4840	12 ft. each way	302	33 ft. each way	40
4 " " "	2722	15 " " "	193	35 " " "	35
5 " " "	1742	18 " " "	134	40 " " "	27
6 " " "	1210	20 " " "	108	45 " " "	21
8 " " "	680	25 " " "	69	50 " " "	17
10 " " "	435	30 " " "	48		

DISTANCE FOR PLANTING.

Std. Apple	33 to	40 feet each way.
Std. Pear and large-growing Cherry	20	" " "
Duke and Morelle Cherry	20	" " "
Std. Plum, Apricot and Nectarine	15 to	20 " " "
Peach	20	" " "
Quince	12	" " "
Dwarf Pear	10	" " "
Currant, Gooseberry, Raspberry and Blackberry	4 to 5	" " "
Grapes	6 to 10	" " "

WEIGHT OF AGRICULTURAL SEEDS, PER BUSHEL, AND QUANTITY USUALLY SOWN PER ACRE.

Weight per Bushel.		Pounds per Acre.
14 lbs.	Awnless Brome	35 to 40 lbs.
60	Alsike, alone	6 "
60	Alfalfa or Lucerne	20 "
48	Barley, broadcast	2 bus.
	Broom Corn, in hills	6 to 8 qts.
48	Buckwheat, broadcast	1 bus.
21	Crested Dog's Tail	25 lbs.
20	Creeping Bent	50 "
60	Crimson Clover	15 to 20 "
56	Corn, for soiling	1 to 2 bus.
24	English Rye or Perennial Rye	50 lbs.
20	Evergreen Lawn	3 to 4 bus.
56	Flax, for seed	1 bus.
	Flax, for fibre	2 to 3 "
56 lbs.	Field Corn, in hills	4 qts.
50	German Millet	50 lbs.
48	Hungarian Millet	48 "
44	Hemp	22 "
20	Italian Rye	50 "
14	Kentucky Blue	38 "
22	Meadow Fescue	50 "
7	Meadow Foxtail	30 "
14	Orchard Grass	42 "
32	Oats broadcast	2 to 2½ bus.
10	Red Top, chaff	40 to 50 lbs.
14	Red Top, un-hulled	30 to 40 "
32	Red Top, fancy	6 to 8 "
60	Red Clover	15 "
56	Rye, broadcast	1 bus.
12	Sheep Fescue	30 lbs.
48	Sorghum, drills	4 qts.
	Sorghum, broadcast	8 "
10	Tall Meadow Oat	50 lbs.
45	Timothy, alone	¼ bus.
	" with other grasses	8 lbs.
	Together for an acre	
	Red Clover	8 "
	Timothy	10 "
	Red Top	14 "

WEIGHT OF AGRICULTURAL SEEDS, QUANTITY, ETC.—Continued.

Weight per Bushel		Quantity per Acre.
60	Teosinte, in hills	1 to 3 lbs.
60	Vetches, broadcast	1 bus.
14	Wood Meadow	30 lbs.
60	White Clover, alone	6 "
	White Clover, with other grasses	3 "
60	Wheat, broadcast	1½ to 2 bus.
	Wheat, in drills	1½ to 2 "

VEGETABLE SEED TABLE.

THE QUANTITY OF SEED USUALLY SOWN TO AN ACRE.

Asparagus	5 lbs.
Beans, dwarf in drills	½ to ¾ bus.
Beans, pole, in hills	8 to 10 qts.
Beet, in drills	4 to 6 lbs.
Cabbage, in beds, to transplant	¼ lb.
Carrot, in drills	2 to 3 lbs.
Celery, to transplant	½ lb.
Corn, in hills (sugar)	4 qts.
Kale	4 to 6 lbs.
Melon, musk	1½ to 2 "
Melon, water	2 to 3 lbs.
Mustard, broadcast	12 to 16 lbs.
Mangelwurzel	4 to 6 lbs.
Onions, in drills to make large onions	6 to 8 bus.
Onion Seeds, for small sets	40 to 60 "
Parsnips, in drills	4 to 6 "
Peas, early, in drills	1½ bus.
Peas, Marrowfat, in drills	1½ "
Peas, broadcast	2 to 3 "
Potato, cut tubers in drills	8 to 11 "
Radish, in drills	6 to 8 lbs.
Radish, broadcast	10 "
Salsify, in drills	6 to 8 lbs.
Celery, in drills	12 to 20 "
Squash, bush varieties, in hills	4 to 6 "
Squash, running varieties, in hills	3 to 4 "
Turnip, in drills	1 lb.
Turnip, broadcast	2 lbs.
Tomato, to Transplant	¼ lb.

QUANTITY OF SEEDS REQUIRED FOR A GIVEN NUMBER OF PLANTS, NUMBER OF HILLS, OR LENGTH OF DRILLS.

Asparagus	1 oz. to 50 ft. drill
Beet	1 oz. to 50 ft. drill
Celery	1 oz. to 100 ft. drill
Carrot	1 oz. to 100 ft. drill
Endive	1 oz. to 150 ft. drill
Egg Plant	1 oz. to 300 ft. drill
Lettuce	1 oz. to 150 ft. drill
Okra	4 oz. to 100 ft. drill
Onion	1 oz. to 100 ft. drill
Onion Sets, small	1 qt. to 100 ft. drill
Parsley	1 oz. to 150 ft. drill
Parsnip	3 oz. to 100 ft. drill
Radish	2 oz. to 100 ft. drill
Salsify	1 oz. to 70 ft. drill
Spinach	2 oz. to 100 ft. drill
Turnip	1 oz. to 150 ft. drill
Peas	1 qt. to 100 ft. drill
Dwarf Beans	1 qt. to 100 ft. drill
Leek	1 oz. to 100 ft. drill
Pole Beans	1 qt. to 150 hills
Corn	1 qt. to 200 hills
Cucumber	1 oz. to 50 hills
Watermelon	1 oz. to 30 hills
Muskmelon	1 oz. to 60 hills
Pumpkin	1 oz. to 40 hills
Early Squash	1 oz. to 50 hills
Marrow Squash	1 oz. to 16 hills
Cabbage	1 oz. seed will produce 2000 plants
Caulif'r	1 oz. seed will produce 2000 plants
Celery	1 oz. seed will produce 3000 plants
Egg Plant	1 oz. seed will produce 1000 plants
Lettuce	1 oz. seed will produce 3000 plants
Pepper	1 oz. seed will produce 1000 plants
Tomato	1 oz. seed will produce 1500 plants

Griffith & Turner Co.'s

ANNUAL CATALOGUE - 1913

BEST GOODS LOW PRICES

OUR SEEDS are the BEST that can be obtained anywhere, because we are as careful in our selection as it is possible for any one to be, and are constantly on the lookout for the best of everything, but will not put on the market anything until it has been thoroughly tried and proved.

No matter what others may ask for their seeds, better quality cannot be obtained anywhere, as our constantly and rapidly increasing trade does and will testify.

Our Seeds are ALL TESTED thoroughly before being placed on the market.

HOW TO ORDER TO AVOID DELAY.—All orders from unknown correspondents should be accompanied with the cash. Money can be safely sent by check, postoffice order, express money order, registered letter or by express, or postage stamps for small amounts. We prepay postage on all orders of Vegetable and Flower Seeds, by the packet, ounce or quarter pound. On quantities over quarter pound, the purchaser pays the postage at the rate of 8c. per pound. On Beans, Peas and Corn, 8c. per pint or 15c. per quart should be added to catalogue prices to pay postage.

By writing out your order on the order sheet sent with each catalogue you will greatly facilitate our work. Extra order sheets sent on application. Be sure to sign your name in full, giving postoffice and shipping point. If you have rural delivery, give name and number of route. If you want goods shipped by boat or railroad, state which you prefer, and what line to send by.

GRIFFITH & TURNER CO. give no warranty, expressed or implied, as to description, quality, productiveness, or any other matter, of any Seeds, Bulbs or Plants they send out, and they will not be in any way responsible for the crop. If the purchaser does not accept the goods on these terms, they are at once to be returned.

ASPARAGUS — German, Spargel

This is one of the earliest spring vegetables, and should be in universal use. Many persons think it is difficult to grow, but we consider this a mistake, and believe it can be produced as cheaply and easily as any on the list. Sow the seed in the seed bed late in the fall or the early spring, as soon as the ground can be worked, in drills one foot apart, covering the seed about one inch deep. When the plants are four or five inches high, great care should be taken to keep the bed free of weeds. One ounce of seed will sow forty feet of row. Thin to nine inches in the row.

PALMETTO.—A very early maturing variety, producing an abundance of very large, deep green shoots. Seed—Fkt., 5c. Oz., 10c. ¼ lb., 20c. Lb., 60c. 5 lbs., \$2.50.

MAMMOTH WHITE.—Produces large, white shoots six inches above the surface; fine quality. Fkt., 5c. Oz., 10c. ¼ lb., 20c. Lb., 60c.

BARR'S MAMMOTH.—The stalks are very large, and retain their thickness completely up to the top of the shoots; light in color. Fkt., 5c. Oz., 10c. ¼ lb., 20c. Lb., 60c. 5 lbs., \$3.00.

CONOVER'S COLOSSAL.—A mammoth, green sort of the largest size and of good quality. One of the best known and most generally cultivated varieties. Seed—Fkt., 5c. Oz., 10c. ¼ lb., 20c. Lb., 60c. 5 lbs., \$2.50.

GIANT ARGENTEUIL.—A French variety. Stalks large and thick. Fkt., 5c. Oz., 10c. ¼ lb., 20c. Lb., 75c.

ASPARAGUS ROOTS.—A saving of one to two years is effected by planting roots. A bed 12x40 feet, requiring about 100 roots, should give a sufficient supply for an ordinary family. 7260 roots will plant an acre. Select good leamy soil, plow deep, put in good quantity of manure and 100 pounds kainit to 1000 square feet of bed. Incorporate thoroughly, make a trench eight inches deep, set plants nine inches apart. In field culture rows are placed four feet apart.

	Per 100.	Per 1000.		Per 100.	Per 1000.
Barr's Mammoth.....	\$.75	\$5.50	Palmetto (Green).....	\$.70	\$5.00
Colossal (Green).....	.70	5.00	Mammoth White.....	.75	5.50

Prices, by Express, Not Prepaid.



ARTICHOKES

LARGE GREEN GLOBE.—This is a very nice vegetable to eat. Some prefer it cooked like asparagus; that is, take the flower head before it begins to open and cook much the same way as asparagus. Fkt., 5c. Oz., 35c.
JERUSALEM.—The tubers roasted or boiled, served with butter, salt and pepper, make a dish some think superior to potatoes. Fk., 7c. Bus., \$2.50.

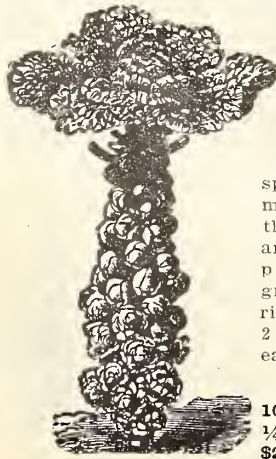
BRUSSELS SPROUTS

(German, Gruener Kopfkohl).

1 oz. of Seed to 100 Yards of Row.

A class of plants allied to the Cabbage family, producing a great number of small heads for sprouts on the main stem of the plant, which are used and prepared as greens. Plant in rich soil in hills 2 feet apart each way.

Fkts., 5c. and 10c. Oz., 20c. ¼ lb., 60c. Lb., \$2.00.



BORECOLE

This is often called Broccoli by market gardeners, but belongs to the Kale family. Very spreading in habit and beautifully curled. Seed very scarce. Fkts., 5c. and 10c. Oz., 15c. ¼ lb., 50c. Lb., \$1.50.



BROCCOLI

(German, Spargel Kohl.)

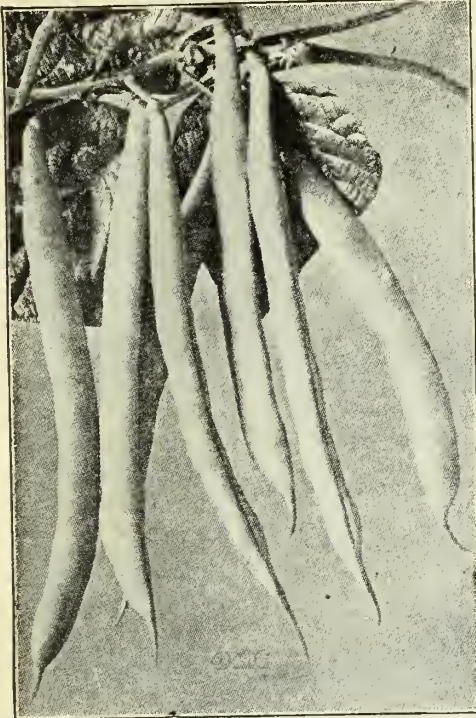
1 Ounce of Seed to 100 Yards of Row. The Broccoli are closely allied to the Cauliflower family. They require similar cultivation and treatment to cauliflower.

EARLY PURPLE CAPE.—Large, compact. Fkt., 10c. Oz., 40c.

LARGE EARLY WHITE.—Head white, like cauliflower; the best. Fkt., 10c. Oz., 40c.

BEANS DWARF WAX PODDED BEANS

One Quart Will Plant 100 Feet of Drill.



WAX BEANS.

Select light, warm soil and plant when danger from frost is past in the spring, in drills 2 to 2½ feet apart, dropping the beans about 6 to 8 inches apart in the drills, and cover 2 inches deep. A succession of sowings can be made from the first week in May until August.

Add 8c. per pint, or 15c. per quart, on all Beans if to be sent by mail.

WARDWELL'S KIDNEY WAX BEAN.—This is one of the best wax sorts. The vines are remarkably vigorous, hardy and productive. The pods are very large, smooth, showy, tender, perfectly stringless and of unusually fine quality. Pt., 15c. Qt., 30c. Pk., \$2.00. Bus., \$6.00.

NEW PENCIL POD WAX BEAN.—Very early and productive. Pods long, straight and handsome; color, light golden yellow; strong and vigorous bush. One of the best varieties. Pt., 15c. Qt., 30c. Pk., \$1.75. Bus., \$6.00.

CURRIE'S RUSTPROOF BLACK WAX.—For earliness and freedom from rust it is at the head of the Wax Bean family. Habit, upright and robust, holding the pods well from the ground. Pods long, straight, flat and very meaty, of a beautiful color; quality not surpassed, and for productiveness it is unequalled. Pt., 15c. Qt., 30c. Pk., \$1.75. Bus., \$6.50.

IMPROVED RUSTPROOF GOLDEN WAX.—This is the earliest, handsomest and hardest of all the Wax Beans. The pods are straight, long and thicker than the ordinary Golden Wax, much superior in quality, absolutely rustproof and sure to become the favorite Wax Bean; in fact, it has already gained great popularity with growers. Pt., 15c. Qt., 30c. Pk., \$1.75. Bus., \$6.50.

GOLDEN-EYED WAX.—This Bush Bean is very early; the vine grows vigorously to about one and a half feet high, holding pods off the ground. The pods are handsome, long, straight and flat, remarkably free from rust. Pt., 15c. Qt., 30c. Pk., \$1.75. Bus., \$6.00.

DAVIS' KIDNEY WHITE WAX.—Vigorous grower, bears abundantly; long, white, handsome pods, which are crisp and tender if gathered when young. Pt., 15c. Qt., 30c. Pk., \$1.75. Bus., \$6.50.

DWARF PROLIFIC BLACK WAX.—Yellow pod, a very superior snap sort, ripening among the first earlies and having the best characteristics. Very tender. Pt., 15c. Qt., 30c. Pk., \$1.75. Bus., \$6.50.

HODSON WAX.—The most vigorous wax podded bean yet introduced. The yield of large, handsome pods is enormous. Its dense foliage protects the pods, so that their color is clear creamy white. Pods very long, straight or slightly curved, flat, but fleshy, quite stringless and of very good quality. While late in maturing, the remarkable vigor of the plant is a safeguard against blight and other diseases. Pt., 15c. Qt., 30c. Pk., \$1.75. Bus., \$6.50.

GREEN-PODDED BUSH

G. & T. CO.'S EXTRA EARLY RED VALENTINE.—Ten days earlier than the ordinary Red Valentine Bean, and therefore the best for truckers and market gardeners. It is without doubt the very best and earliest green Snap Short Bean.

The habit of the vine is dwarfed and very uniform. Color of pods light green, round, curved, succulent, prolific, continuing long in edible condition. Pt., 15c. Qt., 30c. Pk., \$1.50. Bus., \$5.00.

BLACK VALENTINE.—This excellent extra early variety has perfectly round, straight pods of excellent quality. It is suitable both for early and late planting, being extremely hardy. A most desirable sort for the market gardeners, owing to its enormous yielding qualities, large and handsome appearance. Pt., 15c. Qt., 30c. Pk., \$1.50. Bus., \$5.00.

BURPEE'S NEW STRINGLESS GREEN POD.—One of the earliest varieties, pods round and full, absolutely stringless and of beautiful fleshy appearance; quality excellent. The only green pod bean of which the pods never develop any strings. Pt., 20c. Qt., 30c. Pk., \$1.75. Bus., \$6.00.

GIANT STRINGLESS GREEN POD.—Resembles very much the old Valentine. The plants are of strong growth, very productive; pods 5 inches long, light green, slightly curved, very meaty, brittle and stringless at all stages, and of mild flavor. Pt., 15c. Qt., 30c. Pk., \$1.75. Bus., \$6.00.

EXTRA EARLY BOUNTIFUL (Flat Green Pod).—A prolific and continuous bearer. The first in the spring, the last in the fall. Absolutely stringless, very tender and of delicious flavor. Pt., 15c. Qt., 30c. Pk., \$1.75. Bus., \$6.00.

EXTRA EARLY REFUGEE.—It is similar in every respect to the ordinary Refugee, but is nearly two weeks earlier. It is enormously prolific, and from its earliness is almost certain to produce a crop, no matter how unfavorable the season; is rapidly becoming a favorite sort, as it matures equally early with Red Valentine and has that beautiful silvery green color in the pods that is so much desired. Pt., 15c. Qt., 30c. Pk., \$1.50. Bus., \$5.50.

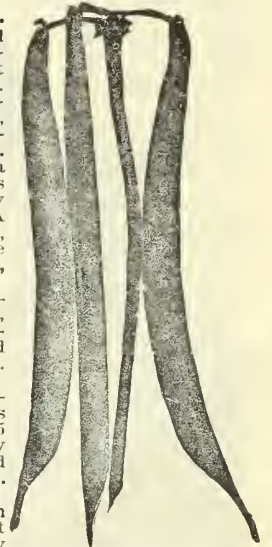
REFUGEE, or 1000 to 1.—A medium to late variety, very productive and largely grown for pickling; handsome and tender pods. Pt., 15c. Qt., 30c. Pk., \$1.50. Bus., \$5.50.

EARLY MOHAWK.—Pt., 15c. Qt., 30c. Pk., \$1.50. Bus., \$5.50.

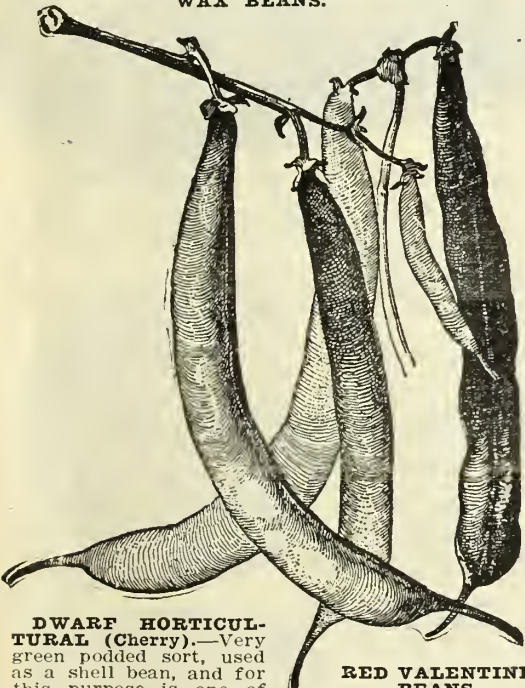
LONG YELLOW 6 WEEKS.—Very early, hardy bean. Pt., 15c. Qt., 30c. Pk., \$1.50. Bus., \$5.50.

WHITE MARROWFAT.—Extensively grown for sale as a dry bean for winter use. Qt., 20c. Pk., \$1.25. Bus., \$4.50.

WHITE NAVY, or SMALL PEA BEAN.—A well-known variety for field culture; very prolific. Qt., 20c. Pk., \$1.25. Bus., \$4.50.



BLACK VALENTINE BEANS.



RED VALENTINE BEANS.

DWARF HORTICULTURAL (Cherry).—Very green podded sort, used as a shell bean, and for this purpose is one of the finest in general use; long a favorite with those who use a shell bean in a green state. Pt., 15c. Qt., 30c. Pk., \$1.75. Bus., \$6.00.

BEST OF ALL.—One of the most valuable green podded sorts for family or market use. Pods are six inches long, very fleshy, succulent, stringless, of rich flavor; produced early and abundantly. Pt., 15c. Qt., 30c. Pk., \$1.75. Bus., \$6.00.

Bush Lima Beans

ONE QUART WILL PLANT 100 FEET OF DRILL.

Plant in light rich soil, in drills three feet apart, dropping the seeds about one foot apart in the row, and cover two inches.

When Beans are sent by mail add, for postage, 8c. per pint, 15c. per quart.

FORDHOOK BUSH LIMA.—An improved dwarf Lima of the Kumerle type. The plant is vigorous and erect growing, bearing well above the ground. The pods are produced in large clusters, each containing three to five large beans of exceptionally fine quality. Much more productive than Kumerle and matures earlier. We consider this a decided acquisition to the dwarf Lima, possibly the best of the class. **Pt., 20c. Qt., 40c. 4 Qts., \$1.00. Bus., \$8.00.**

BURPEE'S IMPROVED BUSH LIMA.—Will outyield Burpee's Bush Lima by fully one-third. This greater yield is due to the increased size of both pod and beans. The dried beans are very handsome, and generally show a greenish-white coloring, while dried beans of the Burpee Bush Lima, like those of the Large Pole Lima, are pure white. **Pt., 20c. Qt., 40c. 4 Qts., \$1.00. Bus., \$8.00.**

BURPEE'S BUSH LIMA.—Bushes grow 18 to 20 inches high, stout growth and always erect, yet branching so vigorously that each plant develops into a magnificent circular bush 2 to 3 feet in diameter; an immense yielder, each bush bearing 50 to 200 handsome, large pods, well filled. **Pt., 15c. Qt., 30c. Pk., \$1.75. Bus., \$7.00.**

KUMERLE, or DREER'S BUSH LIMA.—Dwarf variety of Dreer's Improved Lima, which has been fixed in its character of a bush bean; very prolific, single plants often producing 150 to 200 pods. Equal in quality and tenderness to Dreer's Pole Lima. **Pt., 15c. Qt., 30c. Pk., \$1.75. Bus., \$7.00.**

HENDERSON BUSH LIMA.—These are very valuable, because they do not need poles, and, being so dwarf, can be planted close together. They are very early and prolific, continuing to bear until frost. **Pt., 15c. Qt., 30c. Pk., \$1.75. Bus., \$6.50.**

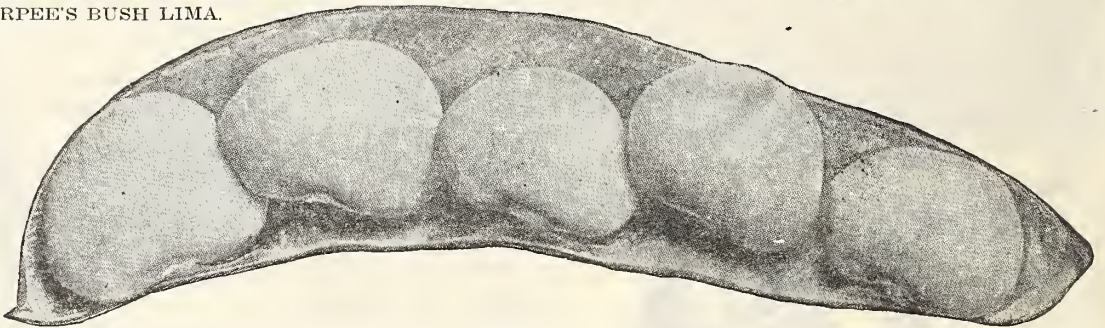
Pole Limas



BURPEE'S BUSH LIMA.

Set the poles 3 to 4 feet apart and plant 6 to 8 beans, with the eyes downward, around each pole, thinning to 4 healthy plants when they are up. They require the same soil and treatment as the dwarf varieties.

When Beans are sent by mail add, for postage, 8c. per pt., 15c. per qt.



CARPENTERIA POLE LIMA.—The newest large pole Lima; enormously prolific; early green and delicious flavor. **Pt., 15c. Qt., 30c. Pk., \$2.00. Bus., \$8.00.**

HENDERSON'S EARLY LEVIATHAN.—This is the very earliest. It will not only give large Lima beans earlier than any other strain, but is also much more productive, both early and throughout the season. It is a strong grower, clinging well to the poles, and is a sure cropper. The pods hang out from the foliage in large clusters and contain three or four and sometimes five large beans to the pod. **Pt., 15c. Qt., 30c. Pk., \$1.75. Bus., \$6.50.**

KING OF THE GARDEN LIMA.—This bean has met with enormous sales the past few seasons. They are vigorous growers, setting their beans early at bottom of pole, producing continuously to the end of the season. They are more prolific than the ordinary Lima, bearing pods 5 to 7 inches long, in clusters of 4 and 5, with 5 or 6 beans in a pod. **Pt., 15c. Qt., 30c. Pk., \$1.75. Bus., \$6.25.**

EXTRA LARGE WHITE LIMA.—This is a splendid sort, and takes a leading place with growers, because of its many excellent qualities. As a shell bean surpasses all in quality, and is the favorite with most people. **Pt., 15c. Qt., 30c. Pk., \$1.75. Bus., \$6.25.**

FORD'S MAMMOTH POLE LIMA BEAN.—The pods grow to an average length of 8 inches, are produced in great clusters, with from 5 to 7 beans per pod of most excellent quality for using either green or dry. The vines grow vigorously, setting the beans early at the bottom of the pole, and continue in bearing up to frost. **Pt., 15c. Qt., 30c. Pk., \$1.75. Bus., \$6.25.**

EXTRA EARLY JERSEY LIMA.—This variety is two weeks earlier than other sorts; the pods are large and numerous, making it a very profitable sort to grow. **Pt., 15c. Qt., 30c. Pk., \$1.75. Bus., \$6.00.**

SEIBERT'S LARGE EARLY.—A very early and prolific strain of the Large Lima. The vines begin bearing pods considerably earlier than the regular strains of Large Limas. While the pods are only of medium length, they are well filled, containing 3 and 4 large, fleshy beans, which are extremely tender and fine in flavor. **Pt., 15c. Qt., 30c. Pk., \$1.75. Bus., \$6.00.**

DREER'S IMPROVED OR CHALLENGE POLE BEAN.—This popular bean is considered by many growers superior to all others in quality and productiveness. When green it is as large as the Large Lima, thicker, sweeter and more tender and nutritious, remaining green in the pod for a long time after maturing. **Pt., 15c. Qt., 30c. Pk., \$2.00. Bus., \$6.50.**

CAROLINA OR SIEVA.—A seedling variety of Large White Lima, with small pods, usually about 2 inches long. A little earlier and harder. **Pt., 15c. Qt., 30c. Pk., \$1.75. Bus., \$6.00.**

CLIMBING or POLE BEANS

MARYLAND WHITE.—This new White Pole Bean is destined to take its place as one of the best beans ever grown for general purposes. Its thick, meaty, green pods are very tender, rich in flavor, and produced in great abundance. It is equally valuable as a snap or shell bean. **Pt., 15c. Qt., 30c. Pk., \$2.00. Bus., \$7.00.**

LAZY WIFE.—Large pale green pods, very thick meated, stringless, rich, tender and buttery; ripens early; clings well to the pole; enormously productive; splendid either as a snap or shell bean. **Pt., 15c. Qt., 30c. Pk., \$2.00. Bus., \$6.50.**

KENTUCKY WONDER, OR OLD HOMESTEAD.—A very prolific sort, bearing its pods in large clusters; pods green, often reaching 9 to 10 inches in length, nearly round when young, and very crisp. **Pt., 15c. Qt., 30c. Pk., \$1.50. Bus., \$5.75.**

SPECKLED HORTICULTURAL, OR WREN'S EGG.—An old favorite for both snap-shorts and dry beans. **Pt., 15c. Qt., 30c. Pk., \$1.75. Bus., \$6.25.**

CREASE BACK, OR FAT HORSE.—A well-known and highly esteemed Southern variety; very productive; forms full, round pods; fleshy; stringless. **Pt., 15c. Qt., 30c. Pk., \$1.75. Bus., \$6.00.**

SPECKLED CUT-SHORT, OR CORN HILL.—An old variety, very popular for planting among corn; pods short, cylindrical and tender. **Pt., 15c. Qt., 30c. Pk., \$1.75. Bus., \$6.00.**

DUTCH CASE KNIFE.—Vines moderately vigorous, climbing well; may be used for a corn-hill bean; pods long, flat, irregular green, but becoming cream white. **Pt., 15c. Qt., 30c. Pk., \$1.50. Bus., \$6.00.**

BEETS

One Ounce of Seed Will Sow One Hundred Feet of Drill

Select a deep, rich sandy loam and manure with well decomposed compost or a good chemical fertilizer. Sow in drills, 14 to 16 inches apart, and cover 1 inch deep. When the young plants appear, thin to 4 or 5 inches apart. For early use, sow as soon as the ground can be worked in the spring; for autumn use, about the middle of May, and for winter use, during June or July, according to the variety—the long varieties requiring more time to mature than the round, early kinds.



CROSBY'S IMPROVED EGYPTIAN.

CROSBY'S IMPROVED EGYPTIAN BEET.
A very superior strain of the well-known Egyptian, carefully selected, blood color, quick, rapid growth. The shape is very desirable, as shown in the accompanying photograph, being not so round as the Eclipse or quite so flat as the ordinary Egyptian. It may be sown outside as late at July. Pkt., 5c. Oz., 15c. ¼ lb., 40c. Lb., \$1.50.

G. & T. CO'S EARLY MARKET.
Its qualities are extra early, dark red color, fineness of shape and small top. One of the most attractive varieties grown, and is especially desirable for hotbeds on account of its small top and close-growing habit. Pkt., 5c. Oz., 15c. ¼ lb., 40c. Lb., \$1.50.

EDMAND'S RED TURNIP.
The most uniform of all Turnip Beets. It is of handsome round shape, good marketable size and deep blood color. It has a small top, and may be planted close. Pkt., 5c. Oz., 15c. ¼ lb., 40c. Lb., \$1.25.

DETROIT DARK RED TURNIP BEET.
This is one of the finest formed and handsomest colored Beets on the market. It is unsurpassed in the uniformity and beauty of the crop. It is exceedingly early, and produces more marketable specimens on the same acreage than any other variety. Pkt., 5c. Oz., 15c. ¼ lb., 40c. Lb., \$1.50.

ECLIPSE BEET.
This extra early Beet is remarkable for its fine quality and rapid growth; is of deep red color and handsome shape. As an early market sort it is unrivaled. It is to a large extent superseding the Egyptian, being earlier in development, more attractive in appearance and of superior quality for the table. Pkts., 5c. and 15c. ¼ lb., 40c. Lb., \$1.25.

BASSANO, OR EXTRA EARLY TURNIP.
Flesh white and rose; very sweet and tender. Pkt., 5c. Oz., 15c. ¼ lb., 40c. Lb., \$1.25.

EXTRA EARLY EGYPTIAN.
This is a flat Beet, very early and deep red color. Owing to the small top, it can be planted very close. Pkt., 5c. Oz., 15c. ¼ lb., 30c. Lb., \$1.00.



ECLIPSE BEET.



G. & T. CO'S EARLY BLOOD TURNIP BEETS.
This is our Special Stock of Early Blood Turnip Beet, which we have been growing for a number of years, and which the market gardeners of Baltimore and other places prefer. It is of dark red color, handsome shape and early. Pkt., 5c. Oz., 15c. ¼ lb., 40c. Lb., \$1.25.

LARGE LONG BLOOD
A large and desirable late variety of deep red color. Pkt., 5c. Oz., 15c. ¼ lb., 40c. Lb., \$1.25.

SWISS CHARD. Oz., 10c. Lb., 75c.



GOLDEN TANKARD MANGOLD.

Beets for Stock

SOW 4 POUNDS TO THE ACRE.

Stock Beets grow larger than any other Beets, and hence require more room. They should be sown from April to June, in drills 2½ feet apart, and the plants thinned to 12 to 15 inches in the row. The attention of farmers to the growing of Beets for stock feeding has rapidly increased, but it should be grown more generally, and will show the results in the health and condition of the stock. It supplies good, rich food for cattle during the winter.

LONG RED MANGOLD WURZEL.

The well-known, large, long variety, grows well out of ground. Color light red. Very productive. Pkt., 5c. ¼ lb., 15c. Lb., 50c. 5 lbs., \$2.50.

GOLDEN TANKARD MANGOLD.

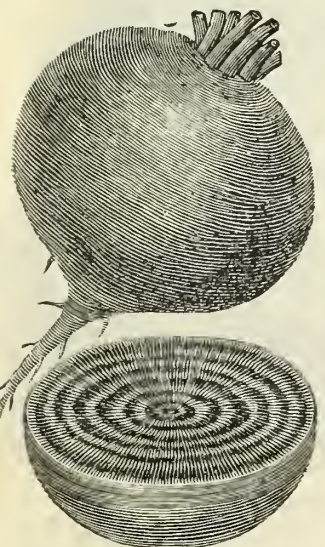
The best type of Mangold—small top, smooth, rich skin, broad shoulders, very solid fleshed, golden stemmed, heavy producer. Pkt., 5c. ¼ lb., 15c. Lb., 50c. 5 lbs., \$2.50.

WHITE SUGAR BEET.

A large-growing sort, and used for feeding stock. Pkt., 5c. ¼ lb., 15c. Lb., 50c. 5 lbs., \$2.50.

CHAMPION YELLOW INTERMEDIATE, OR GATE-POST MANGOLD.

One of the very finest Mangolds ever introduced, giving unbounded satisfaction wherever grown. With good cultivation will crop at the rate of 200 bushels per acre. Pkt., 5c. ¼ lb., 15c. Lb., 50c. 5 lbs., \$2.50.



**ONE OUNCE
OF SEED TO
100 YARDS
OF ROW.**

CABBAGE German, Kopfkohl

ing to variety of cabbage. It does not pay to buy cheap Cabbage Seed. Ours are American grown and from the best stock in the country. For early use, sow in a hotbed in February or March, and set out to a cold frame as soon as large enough. In April the plants may be set out in the rows. For late crop, sow in nursery bed in May or June and transplant as soon as the plants are 5 or 6 inches high. The ground should be thoroughly cultivated every week until the plants meet in the rows.

KING OF EARLIES.—Our own introduction; American grown. An extra early variety, fully a week ahead of all other varieties in forming marketable heads; the heads are tall and slim and of rather small size, formed like a Wakefield. Habit, vigorous; short stem and proof against sun. **Pkts., 5c. and 10c. Oz., 20c. ¼ lb., 40c. Lb., \$1.50.**

EXTRA EARLY EXPRESS.—Heads are comparatively thicker and less pointed than Jersey Wakefield and slightly earlier. Head softer, but stands shipping better. **Pkts., 5c. and 10c. Oz., 20c. ¼ lb., 40c. Lb., \$1.50.**

**EARLY WIN-
NINGSTADT.**—
Head large, cone-
shaped and solid.
An old and popular
sort. **Pkts., 5c.
and 10c. Oz., 20c.
¼ lb., 40c. Lb.,
\$1.50.**



LARGE OR CHARLESTON WAKEFIELD—American Grown

This is now a very popular market Cabbage, fully meeting the demand for a cabbage having all the characteristics of the Jersey Wakefield, but larger. It is five to six days later than Early Jersey Wakefield. The heads are fully one-half larger and quite solid. It is very compact in growth, and can be easily planted in rows two feet apart and twenty inches in rows. One great advantage is, it does not burst open when ripe, like many other early sorts, and consequently can be left standing on the ground a long while without injury until a favorable opportunity for cutting. No market or private gardener desiring a cabbage of this kind should fail to plant this valuable sort.

Pkts., 5c. and 10c. Oz., 20c. ¼ lb., 50c. Lb., \$1.75.

EARLY DWARF FLAT DUTCH—American Grown

An old stand-
ard variety
which stands
the sun and
produces fine,
large heads,
coming in soon
after the Wake-
field. **Pkts., 5c.
and 10c. Oz.,
20c. ¼ lb., 50c.
Lb., \$1.75.**

**LARGE
EARLY
YORK.
American
Grown.**

One of the
earliest. Forms
a medium size,
pointed head.

**Pkts., 5c. and
10c. Oz., 20c.
¼ lb., 50c. Lb.,
\$1.75.**

NEW EARLY.

American

grown. This is one of the finest large early cabbages grown. Forms solid, compact heads, and leaves grow close to the head, thus allowing many more cabbages to be grown on the acre than any other sort. One of its most striking features is its earliness. It heads so rapidly that the worms can't hurt it. **Pkts., 5c. and 10c. Oz., 20c. ¼ lb., 60c. Lb., \$2.00.**



SELECT EARLY JERSEY WAKEFIELD—American Grown

The very best early Cabbage, and grown more extensively by market gardeners than any other variety. It is early, the heads are pyramidal in shape, very large and solid, and having but few outside leaves the plants can be set close together. We secured our seed from a grower of the best Wakefield Cabbage in the country, and it is giving good results wherever it is used, so much so that our sales of this sort are rapidly increasing each year. The demand for this sort has brought on the market inferior stock at a low price; but when select stock such as we offer is used it cannot fail to give satisfaction. **Pkts., 5c. and 10c. Oz., 20c. ¼ lb., 50c. Lb., \$1.75.**



EARLY SUMMER CABBAGE—American Grown

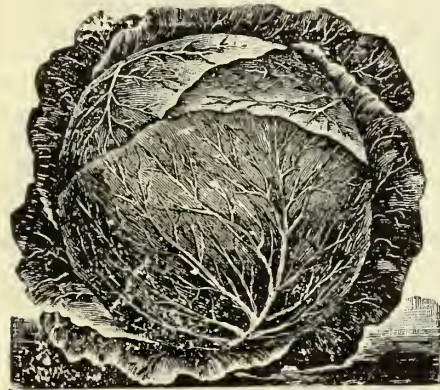
One of the earliest of the summer varieties. Heads large and flat; short stemmed, few outside leaves, uniform in character, and about 10 days later than the Wakefield. It is very popular with the truckers. **Pkts., 5c. and 10c. Oz., 20c. ¼ lb., 50c. Lb., \$1.75.**

NEW EARLY CABBAGE.

CABBAGE—Continued

ALL-HEAD EARLY—American Grown, is the largest of all early Cabbages, fully one-third larger than the Early Summer. It is the nearest approach to a thoroughbred cabbage of any variety, both in size and uniform development. As the All-Head comes in quicker than any of the other flat cabbages, it is consequently more tender. It is also valuable for a late or winter cabbage. Pkts., 5c. and 10c. Oz., 20c. $\frac{1}{4}$ lb., 60c. Lb., \$2.00.

A fine early variety, coming in a few days later than Early Summer, but it is immeasurably superior to that variety; it is nearly double the size, and is absolutely true to its type under all conditions. In addition to this, it has no tendency whatever to run to seed. It is one of the finest sorts in existence today; whether for medium early, main crop or late use, it has no superior. It is so finely bred and so true to type that in a field of twenty acres every head appears alike. We can recommend it either for the market gardener, trucker or private planter, as it is a perfect cabbage in every respect, not only being of the largest size, but of handsome color and of the finest quality. It is probably the safest variety for an amateur to plant, as it does well at all seasons, and one is almost sure of getting a crop, no matter when it is planted. Pkts., 5c. and 10c. Oz., 20c. $\frac{1}{4}$ lb., 75c. Lb., \$2.50.



ALL-HEAD EARLY.

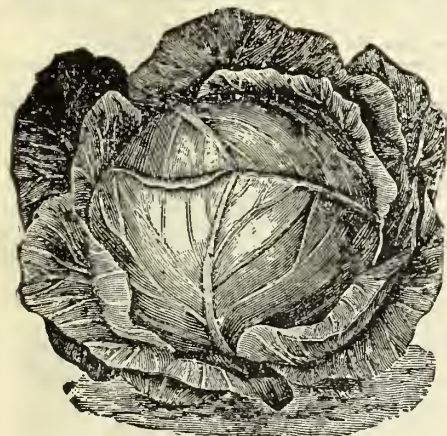
SUCCESSION CABBAGE

LOUISVILLE DRUMHEAD—American grown. This is the most popular intermediate or second early with market gardeners around Louisville and the Southwest. It comes off medium early, withstands heat to a remarkable extent, heads large, solid and uniform in size and color. We can recommend this sort very highly for the Southern and Middle States. Pkts., 5c. and 10c. Oz., 20c. $\frac{1}{4}$ lb., 50c. Lb., \$1.75.

SUREHEAD—American grown. This popular cabbage is rightfully named Sure-head, as it never fails to make a fine, large, solid head, with few outer leaves. It is a strong, vigorous grower, and very uniform in size and color. Always brings the highest price in our markets. Pkts., 5c. and 10c. Oz., 20c. $\frac{1}{4}$ lb., 50c. Lb., \$1.75.

FOTTLER'S EARLY DRUMHEAD OR SHORT STEM BRUNSWICK CABBAGE. In its improved type, this is a very fine summer or early fall variety. The plants are of dwarf, compact growth, the solid, flat heads resting on the soil, while the few outer leaves grow closely about the heads. The foliage is a light bluish green in color. The heads are very flat, quite thick through, uniformly "hard and solid," and considerably earlier than the ordinary Flat Dutch strains. Good both for intermediate and winter use. Pkts., 5c. and 10c. Oz., 20c. $\frac{1}{4}$ lb., 50c. Lb., \$1.50.

LATE OR AUTUMN CABBAGE



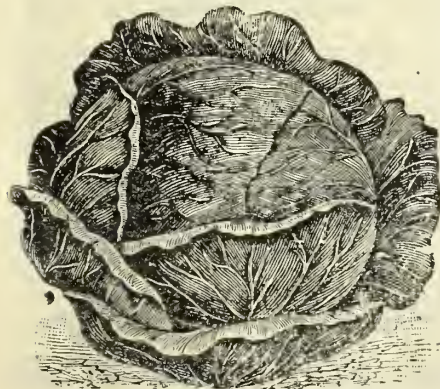
SUCCESSION CABBAGE.

ALL SEASONS.—American grown. This forms a fine, large head, of superior quality, nearly as early as the Early Summer. Suitable for planting at any season. Pkts., 5c. and 10c. Oz., 20c. $\frac{1}{4}$ lb., 50c. Lb., \$1.75.

PREMIUM LARGE LATE FLAT DUTCH CABBAGE.—American grown. Large and excellent for winter; very extensively grown. The head is broad, thick and flat, well covered in by leaves lapping across the center, outside leaves feathered to the base of the leaf stem. Pkts., 5c. and 10c. Oz., 20c. $\frac{1}{4}$ lb., 50c. Lb., \$1.75.



PREMIUM LARGE FLAT DUTCH—LATE CABBAGE.



DANISH BALL HEAD CABBAGE.

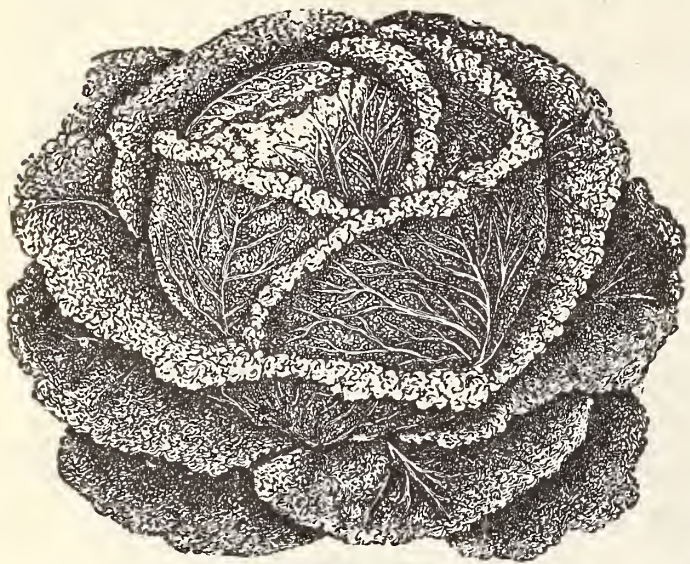
DANISH BALL HEAD—This most excellent variety of cabbage, coming from Denmark, has grown very rapidly into favor with both market and private gardeners. It is a large, round, solid heading, medium early variety; a very sure header, having few loose leaves, consequently can be planted very close together. Although a medium early, can also be grown for a fall and winter crop, being one of the best keepers. Very popular in Philadelphia, New York and Boston markets. Pkts., 5c. and 10c. Oz., 20c. $\frac{1}{4}$ lb., 60c. Lb., \$2.00.

BOSS FLAT DUTCH CABBAGE.—American grown. In again calling the attention of market gardeners and truckers to this magnificent Cabbage, we would say that it has fully met the claims we made for it upon its introduction. When we ask our customers how they like it, their answer is "Splendid!" or "Elegant!" "Everything heads!" "You can scarcely find any that don't head!" The heads are large, hard, thick and flat, the leaves lapping across the center, making it the most desirable winter variety in cultivation. Try it and be convinced of its superior quality. Pkts., 5c. and 10c. Oz., 20c. $\frac{1}{4}$ lb., 50c. Lb., \$1.75.



BOSS FLAT DUTCH—LATE CABBAGE.

LATE CABBAGES — Continued



DRUMHEAD SAVOY

LARGE LATE AMERICAN DRUMHEAD (American Grown).—One of the largest, most solid and best keeping late varieties. This variety seldom fails to head, and is of good quality.
Packets, 5c. and 10c. Oz., 20c. ¼ lb., 50c. Lb., \$1.75.
WORLD-BEATER, or AUTUMN KING.—This is a very superior late cabbage. The large, broad heads are very thick through, slightly rounded at the top, fine grained and tender, has a short stalk, green color, and one of the best keepers we know, and is a rapid grower.
Packets, 5c. and 10c. Oz., 20c. ¼ lb., 50c. Lb., \$1.75.
RED DUTCH.—The head is round, large, solid and a deep red color, the best of the red cabbages.
Packets, 5c. and 10c. Oz., 20c. ¼ lb., 50c. Lb., \$1.75.

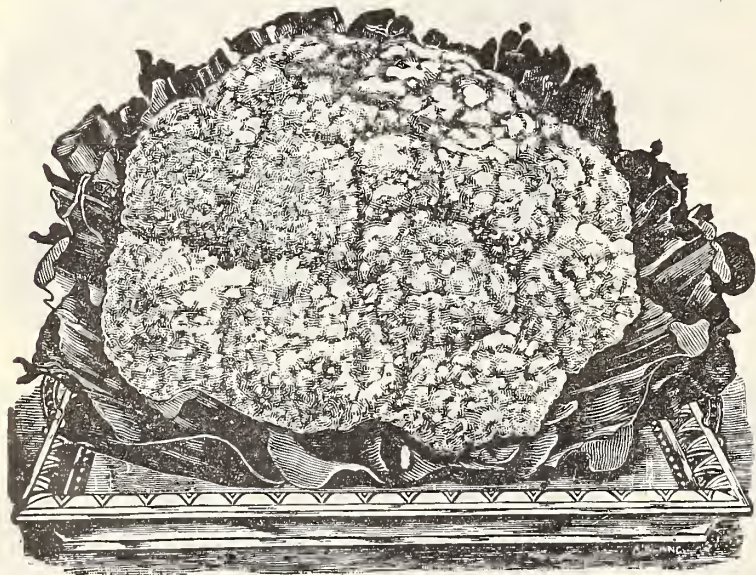
PERFECTION DRUMHEAD SAVOY

American Grown.

This is without any exception the finest stock of Savoy cabbage to be found anywhere. The heads are large and solid, the leaves beautifully curled, and in tenderness and flavor it is almost equal to cauliflower, while its keeping quality is first class. To say that our market gardeners are pleased with it is putting it mild; they are enthusiastic over it, as they find it so much superior to the old-time Savoy. It is specially adapted to private use, as when grown in the fall and allowed to be touched by frost it is one of the most delicious of all vegetables.
Packets, 5c. and 10c. Oz., 20c. ¼ lb., 50c. Lb., \$1.50.

GEORGIA COLLARDS Called the Cabbage Collard on account of its close bunching growth. The plant produces center leaves generally perfectly white, though sometimes dashed with pink. It is a very delicate vegetable and of the finest quality.
Packets, 5c. and 10c. ¼ lb., 35c. Lb., \$1.00.

G. & T. Co.'s Large Gilt Edge Snowball Cauliflower



Is without exception one of the finest sorts now in cultivation. It is very early. Nearly every plant will, under proper cultivation, form a perfect snow-white head, and its close growing, compact habit enables the grower to plant one-third more on the same space of ground than other varieties. In fact, it is, and deserves to be, the standard with the market gardener and amateur.

Packets, 25c. and 50c. ¼ oz., 75c. Oz., \$2.25. ¼ lb., \$8.00.

EXTRA EARLY SNOWBALL.—Our stock of this well-known variety is unexcelled. It is one of the best sorts for open ground or forcing under glass.
Packets, 25c. and 50c. ¼ oz., 75c. Oz., \$2.00.

G. & T. CO.'S "DROUTH-RESISTING."—Produces large white solid heads, maturing about a week later than our large Gilt Edge Snowball. The best for hot, dry weather.

Packets, 25c. and 50c. ¼ oz., 75c. Oz., \$2.25. ¼ lb., \$7.50.

G. & T. CO.'S SELECT EARLY DWARF ERFURT.—Long the standard of highest excellence, and still holding its own with a great many people.

Packets, 25c. and 50c. ¼ oz., 50c. Oz., \$1.50.

EARLY PARIS.—An excellent sort for early or late use.
Packets, 5c. and 10c. Oz., 50c.

DWARF ERFURT.—An inexpensive sort, but will give good results under favorable conditions.

Packets, 5c. and 10c. ½ oz., 50c. Oz., \$1.00. One ounce of seed will produce 2000 plants.

Culture.—The same as for Cabbage, except that extra manure and plenty of water will pay upon Cauliflower. If the soil be dry, water frequently, and if the plants could have a heavy mulch of hay from drouth. The early kinds should be strong enough to plant out not later than the middle of April; the late kinds may be planted out same time as for Cabbage.

CORN SALAD Cress, or Pepper Grass



Three Ounces of Seed to 100 Feet of Row.

A favorite salad plant, and very hardy. Sow in August or September, and protect with leaves during the winter; it can be gathered in the spring very early. Sown in April, it is soon ready for use. The leaves are sometimes boiled and served as spinach.

Pkt., 5c. Oz., 10c. ¼ lb., 15c. Lb., 40c. 5 lbs., \$1.75.

Used as a small salad. Sow very thickly in shallow drills, on a smooth surface, at short intervals throughout the season.

CURLED.—Pkt., 5c. Oz., 10c. ¼ lb., 15c. Lb., 50c.

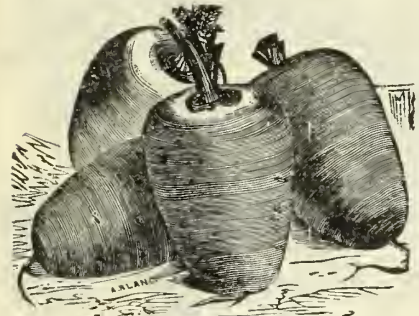
WATER CRESS.—Water Cress may be grown along the margin of running streams, ditches or ponds, and has a ready sale in the hotels and markets.

Pkts., 5c. and 10c. Oz., 30c. ¼ lb., \$1.00. Lb., \$2.75.

G. & T. CO.'S CARROTS

1 OZ. OF SEED TO
100 FEET OF ROW.

Carrots thrive best in rather a light, rich loam. The ground should be well manured with fine, well-rotted or composted manure, and be thoroughly worked quite deep. Sow from middle of April to middle of May, in rows 14 inches apart, and thin the plants to 5 or 6 inches in the row. For late crops sow in June or July. An important point is to tread the rows firmly after sowing. For field culture, Carrots should be sown in drills 3 to 3½ feet apart, so as to cultivate with horse.



GUERANDE, OR OX HEART.

A new French variety; intermediate in length, of fine quality; excellent table sort. The shape is nearly oval, and the color and quality all that can be desired. No market gardener should be without it. **Pkt., 5c. Oz., 20c. ¼ lb., 35c. Lb., \$1.25.**

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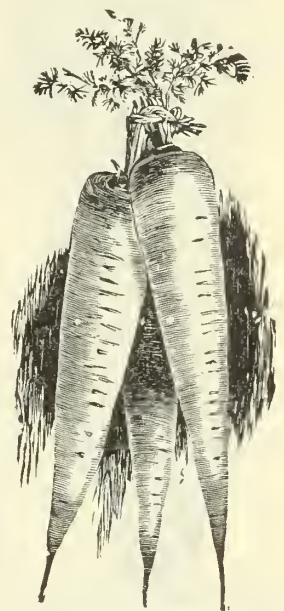


**DANVERS.
CHANTENAY**

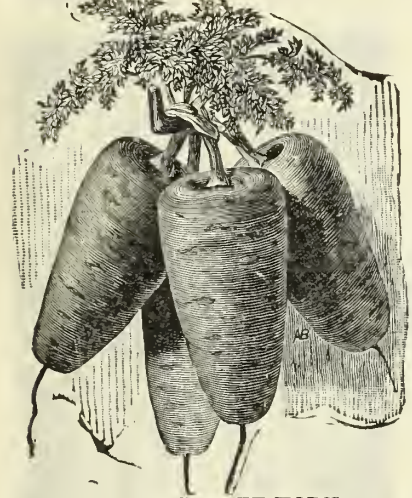
Very productive; has an extra large shoulder, is easily dug, and is in every way desirable. It is very smooth, fine in texture, and of a beautiful, rich, orange color. Well worthy of a thorough trial. **Pkt., 5c. Oz., 10c. ¼ lb., 35c. Lb., \$1.00.**

IMPROVED LONG ORANGE

Deep orange color, long, smooth, fine for either garden or field culture. All who have cattle should raise a surplus of this Carrot for feeding milch cows during winter. It increases the flow of milk and imparts to the butter a delicious flavor and a rich golden color. **Pkt., 5c. Oz., 10c. ¼ lb., 35c. Lb., \$1.00.**



IMPROVED LONG
ORANGE.



EARLY SCARLET HORN.

Blunt-rooted, early, good. Favorite sort for early crop. **Pkt., 5c. Oz., 10c. ¼ lb., 35c. Lb., \$1.00.**

CELERY

GERMAN, CELERIE.

1 Oz. Will Produce 2000 Plants.

Plant seed in hotbed or very early in open ground. Transplant 4 inches apart when 3 inches high in rich soil, finely pulverized; water and protect until well rooted. In June or July transplant into rows 3 to 4 feet apart, either on surface or well-manured trenches a foot in depth, half filled with well-rotted manure. Set the plants from 6 to 8 inches apart. To blanch, draw earth around the plants cover the top of the center shoots.



French Golden Self-Blanching Celery.

FRENCH GOLDEN SELF-BLANCHING

This cannot be too highly recommended, as after being thoroughly tested it has fulfilled all that has been claimed for it. It is decidedly the very best and most profitable Celery in cultivation; it is very early and entirely self-blanching. The beautiful appearance of the plant, its close habit, compact growth, straight, vigorous stalks, solid, crisp, brittle ribs, fine quality and delicious flavor commend it to all lovers of Celery. No variety can surpass it, indeed, equal the Paris Golden Self-Blanching in its striking appearance and delicious flavor. Our stock of this variety has been giving the market gardeners the very best results for several years. **Pkts., 5c. and 10c. Oz., \$1.25. ¼ lb., \$5.00. Lb., \$18.00.**

IMPROVED BOSTON MARKET.—This is a decided improvement on the old Boston Market, being earlier, larger in size and of more vigorous growth. **Pkts., 5c. and 10c. Oz., 20c. ¼ lb., 50c. Lb., \$1.50.**

WHITE SOLID

A large standard sort. One of the large growing sorts. **Pkts., 5c. and 10c. Oz., 20c. ¼ lb., 50c. Lb., \$1.50.**

NEW ROSE. In England the Pink or Red Celeries are much more largely used than the white varieties, and we wonder they are not more grown in this country. They possess many advantages over the white, being hardier, more solid and better keepers. **Pkt., 10c. Oz., 20c. ¼ lb., 50c. Lb., \$1.50.**

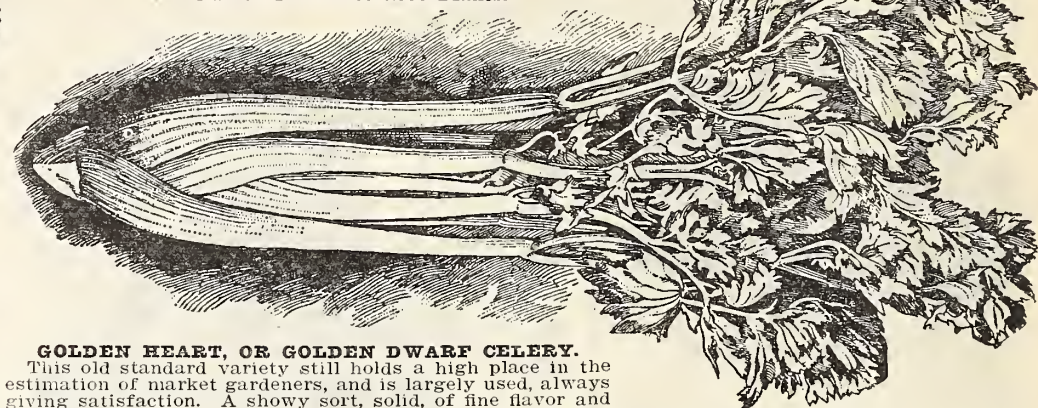
CELERY SEED FOR FLAVORING.

This seed is used for flavoring pickles, soups, etc. **Pkt., 5c. ¼ lb., 10c. ½ lb., 15c. Lb., 25c.**

CELERY German, Celerie.

CONTINUED.

1 Oz. Will Produce 2000 Plants.



GOLDEN HEART, OR GOLDEN DWARF CELERY.
This old standard variety still holds a high place in the estimation of market gardeners, and is largely used, always giving satisfaction. A showy sort, solid, of fine flavor and a good keeper. Pkts., 5c. and 10c. Oz., 20c. ¼ lb., 50c. Lb., \$1.50.

GIANT PASCAL CELERY.
A selection from the well-known Self-Blanching Celery. It partakes of the best qualities of that variety, is somewhat larger, and an excellent keeper. It is of a nutty flavor, being entirely free from any bitter taste. It grows about 2 feet high. The stalks are very broad, thick and crisp, the width and thickness of these are distinctive features of this variety. Pkts., 5c. and 10c. Oz., 20c. ¼ lb., 50c. Lb., \$1.50.

WINTER QUEEN CELERY.
It is, without doubt, the most valuable variety of Celery for winter and spring use ever introduced. It is also much stouter, thicker and heavier, with double the amount of heart of any known Celery. The plant is beautiful in appearance, of close habit and compact growth, and blanches to a beautiful cream white. Ribs perfectly solid, crisp and of delicious nutty flavor. Pkt., 10c. Oz., 20c. ¼ lb., 50c. Lb., \$1.50.

WINTER QUEEN CELERY.
appearance, of close habit and compact growth, and blanches to a beautiful cream white. Ribs perfectly solid, crisp and of delicious nutty flavor. Pkt., 10c. Oz., 20c. ¼ lb., 50c. Lb., \$1.50.

PERLE LE GRAND.

The new Perle le Grand has a beautiful, full golden heart, and rich, nutty flavor. On the market stall it is extremely showy and salable, a single plant making a good-sized bunch and surpassing all other sorts in weight. It is not only a good early Celery, being among the first fit to use, but is a winter keeper, remaining, when properly trenched, in perfect condition far into the spring. Pkt., 10c. Oz., 20c. ¼ lb., 50c. Lb., \$1.50.

PINK PLUME.

This is identical with the White Plume, but with the added merit of the stalks being exquisitely suffused with pink, and possessing the crispness, rich, nutty flavor and long-keeping qualities for which red Celeries are noted. Pkt., 10c. Oz., 20c. ¼ lb., 50c. Lb., \$1.50.

WHITE PLUME.

An early, handsome, self-bleaching variety, growing in popularity every year. Like the Golden Self-Blanching, it requires very little earthing up to blanch it, and as a Celery for fall and early winter use it is unsurpassed. Pkts., 5c. and 10c. Oz., 20c. ¼ lb., 60c. Lb., \$1.75.

EVAN'S TRIUMPH.

A good, green, winter variety, very popular in the North. Forms a large bunch, blanches well, and is very hardy. Pkt., 5c. Oz., 20c. ¼ lb., 75c. Lb., \$2.50.

CELERIAC

OR TURNIP ROOTED CELERY.



NEW APPLE SHAPE.

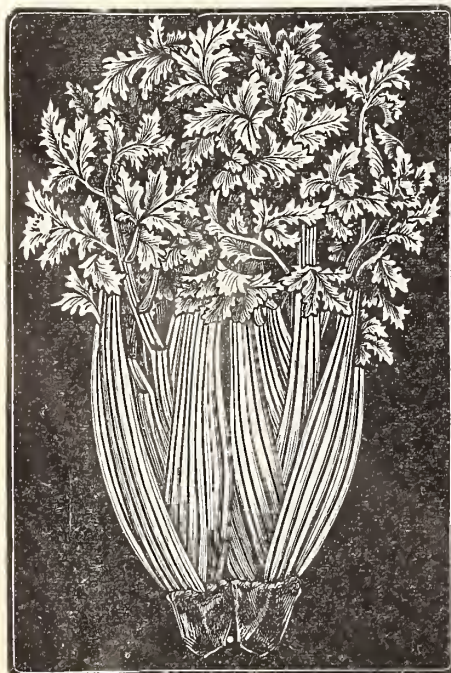
Small foliage, large, round and smooth.

Pkts., 5c. and 10c. Oz., 15c. ¼ lb., 40c. Lb., \$1.50.

Large Smooth Prague.

LARGE SMOOTH PRAGUE.

The largest, smoothest and best of the Celeriacs. Pkts., 5c. and 10c. Oz., 15c. ¼ lb., 40c. Lb., \$1.25.



WHITE PLUME CELERY.

CAUTION. Sweet Corn in bulk, even after being thoroughly cured, will often gather moisture and spoil, particularly if it has been exposed to a low temperature. To prevent this it should be taken out of the bag as soon as received and spread in a dry place.

SWEET OR SUGAR CORN FOR TABLE USE

WHEN CORN IS WANTED BY MAIL, ADD 8 CENTS PER PINT TO PAY POSTAGE.

CULTURE.—Sugar Corn may be planted in rows 3 to 4 feet apart, and the seeds placed about 8 inches apart in the rows, or planted in hills 3 to 4 feet apart each way, according to variety grown or richness of soil. Do not let more than three plants remain in each hill. It can be planted in this vicinity from first of May to last of July for succession of crop. By planting every two weeks a family may have good corn throughout the whole season.



Extra Early Baltimore.



G. & T. Co.'s New Sixty Day.

FIRST EARLY VARIETIES

EXTRA EARLY BALTIMORE.

The hardest and earliest variety for table use; it can be planted earlier than any other, but is not a sweet corn; white indented grains and short ears. Pt., 15c. Qt., 20c. Pk., 90c. Bus., \$3.00.

G. & T. CO.'S NEW 60-DAY CORN.—The largest extra early corn grown. As early as Extra Early Adams, but grows larger ears. Pt., 15c. Qt., 20c. Pk., 90c. Bus., \$3.00.

EXTRA EARLY ADAMS.—Extremely hardy and early; one of the best for early planting. Pt., 15c. Qt., 20c. Pk., 80c. Bus., \$2.75.

EARLY ADAMS.—A favorite in the South. Pt., 15c. Qt., 20c. Pk., 80c. Bus., \$2.75.

EARLY BURLINGTON HYBRID.—Not a true sugar corn, but a hybrid or mixture between the sugar corn and the Adams Early, being as early as Adams, but having a larger ear. It closely resembles the sugar corn. Pt., 15c. Qt., 20c. Pk., 90c. Bus., \$3.00.

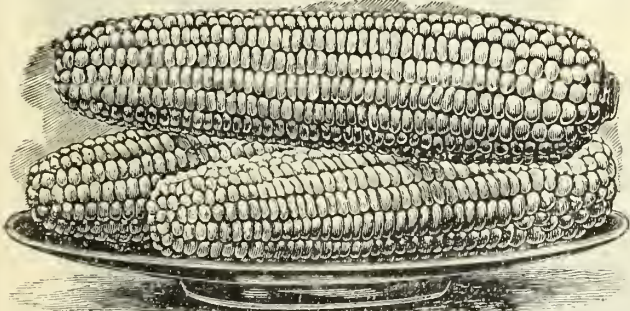
NINETY-DAY CORN (Red Cob).—This is an elegant corn for truckers and market gardeners, as it is as good a seller as green corn, and if not used as green corn makes a good variety for feeding purposes. It may be planted for early crop and at intervals until the middle of July. Many truckers use it for their late planting, as it produces a very sure crop. Qt., 15c. 2 qts., 25c. 4 qts., 40c. Peck, 60c. Bus., \$2.25.

MAIN CROP VARIETIES



TRUCKERS' EARLY CORN.

TRUCKERS' EARLY SUGAR CORN.—This is the most desirable variety of sugar corn for truckers and gardeners to plant early. As its many excellent qualities are becoming generally known, it has come to be one of the standard sorts. It is ten days earlier than Evergreen, very productive, growing two to four ears to the stalk. The ears set low, are large and well filled, the grain long and narrow, similar to Evergreen, but smaller. It is one of the most productive varieties in cultivation. Pt., 15c. Qt., 25c. Pk., \$1.00. Bus., \$3.75.



STOWELL'S EVERGREEN.

STOWELL'S EVERGREEN.—So well known that it scarcely needs description. Excellent; keeps green till cold weather; ears large; one of the best. Pt., 15c. Qt., 25c. Pk., \$1.00. Bus., \$3.50.

EARLY MAMMOTH.—A splendid market sort, producing large, handsome ears; grain large, white and sweet; fills out well at the end. Pt., 15c. Qt., 25c. Pk., \$1.00. Bus., \$3.50.

WHITE EVERGREEN.—Has ears as large as Stowell's, is five days earlier; grains pure white. A valuable acquisition for the gardener and canner. Pt., 15c. Qt., 25c. Peck, \$1.00.

SUGAR CORN.—For fodder. Write for prices.
Truckers, Write for Prices in Quantity.

MEDIUM EARLY VARIETIES

Sweet or Sugar.

NEW GOLDEN BANTAM SUGAR CORN.—The earliest and best of sugar corns. It is of golden color and delicious flavor, with the sweetness of honey; can be planted earlier than the other varieties of true sweet corn, as it is very hardy. The stalks are dwarf in habit, growing about four feet high, producing two or three good ears five to six inches long, well set from the ground. Pt., 15c. Qt., 30c. Pk., \$1.25.

PREMO.—The best early sweet corn on the market. A genuine sweet corn as early as the Adams Extra Early, and larger than any other early variety. The quality is the best, ears measuring 7 to 9 inches long, being well filled to the end; generally bearing two ears to the stalk. Pt., 15c. Qt., 25c. Pk., \$1.25. Bus., \$4.00.

CORY.—An early variety red cob. Pt., 15c. Qt., 25c. Pk., \$1.00. Bus., \$3.75.

FIRST OF ALL.—A selection from the Cory, the ears about the same size as the Cory, lighter in color and earlier. Pt., 15c. Qt., 25c. Pk., \$1.00. Bus., \$4.00.

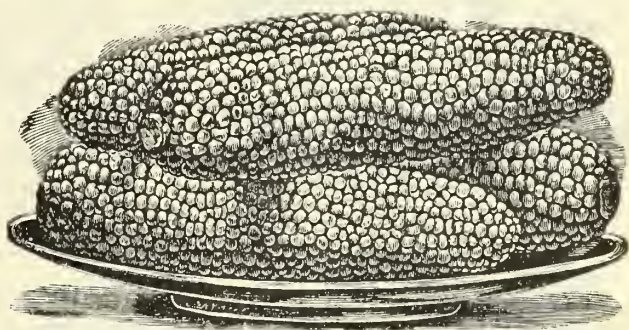
WHITE CORY.—An early variety, with good-sized ears and large kernels. Pt., 15c. Qt., 25c. Pk., \$1.25. Bus., \$4.00.

STABLER'S EARLY.—Of larger size than usual for the early kinds. It is remarkable for the fine flavor and sweetness, and is a desirable gardeners' and canning variety. Pt., 15c. Qt., 25c. Pk., \$1.00. Bus., \$3.50.

CROSBY'S EXTRA EARLY.—An early market variety, very productive; ears rather short and rich, sugary flavor. Pt., 15c. Qt., 25c. Pk., \$1.00. Bus., \$3.50.

EARLY MINNESOTA SUGAR.—One of the first early among sugar corn. Pt., 15c. Qt., 25c. Pk., \$1.00. Bus., \$3.50.

BLACK MEXICAN SUGAR.—The black corn is especially rich in sugary qualities. Pt., 15c. Qt., 25c. Pk., \$1.00. Bus., \$3.75.



COUNTRY GENTLEMAN.

COUNTRY GENTLEMAN CORN.—This is the sweetest and most deliciously flavored of all sugar corn. It is the finest variety for the table, and will delight the most fastidious epicure. It produces three to four ears to the stalk, and retains its greenness longer than other sorts. Pt., 15c. Qt., 30c. Pk., \$1.00. Bus., \$3.50.

HICKOX.—A very handsome and excellent variety of sugar corn; large, white grain and sweet. Pt., 15c. Qt., 25c. Pk., \$1.00. Bus., \$3.50.

IMPROVED NE PLUS ULTRA.—Early, good-sized ears and deep grain; very productive, some stalks yielding four ears and an average crop running as high as three ears to the stalk. Pt., 15c. Qt., 25c. Pk., \$1.00. Bus., \$3.50.

LATE MAMMOTH.—The largest variety grown; very fine for market purposes. Pt., 15c. Qt., 25c. Pk., \$1.00. Bus., \$3.50.

EGYPTIAN, OR WASHINGTON MARKET.—A large variety, somewhat resembling the Evergreen; flavor peculiarly rich and sweet, and of superior quality; fine for market. Pt., 15c. Qt., 25c. Pk., \$1.00. Bus., \$3.50.

ZIGZAG EVERGREEN.—This is one of the sweetest and best late sweet corn, not even excepting the celebrated Country Gentleman and Shoe Peg. The ears resemble Stowell's Evergreen in size and shape, except that the kernels are placed irregularly or zigzag upon the cob, which is always an indication of great sweetness in any variety of sugar corn. Pt., 15c. Qt., 25c. Pk., \$1.00. Bus., \$3.50.

KENDALL'S EARLY GIANT.—The largest early sweet corn known, and is very productive. Pt., 15c. Qt., 30c. Pk., \$1.00. Bus., \$3.50.

1 Oz. Will Plant 50 Hills.
2 Lbs. Will Plant an Acre.

CUCUMBER German, Gurke

Prices Subject to Change
Without Notice.

CULTURE

For very early Cucumbers sow the first of April in a hotbed upon pieces of sod (grass side down), so that they can be readily transplanted to the open ground in rich soil when danger of frost is over, or protect by hand-glasses. The vines require a warm location for early Cucumbers. Plant after the ground has become warm in hills 4 feet apart for the smaller varieties, and 5 feet for the larger sort. For pickling, sow from middle of June to last of July. Manure with ashes, fertilizer or some well-rotted compost, working the manure just under the surface. Sprinkle the vines with slug-shot, plaster of air-slaked lime to protect from bugs. The Cucumbers should be gathered when large enough for use, whether required or not; if left to ripen, it destroys their productiveness.



IMPROVED BALTIMORE WHITE SPINE.

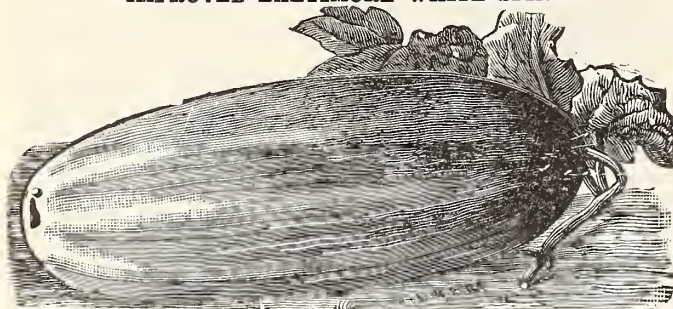
Improved Baltimore White Spine

This is the best Cucumber for early planting, because it will retain its green color longer than any other sort. It is of good size and shape, and the popular variety with truckers around Baltimore and Norfolk, as well as the growers from Virginia to Florida. **Pkt., 5c. Oz., 10c. ¼ lb., 30c. Lb., 90c.**

EXTRA EARLY WHITE SPINE.—A strain of White Spine which has been improved through careful selection, with a view to use for forcing in hothouses and frames; also elegant for field culture. Our stock produces handsome, dark-colored fruits, which retain their color longer than other sorts. **Pkt., 5c. Oz., 10c. ¼ lb., 30c. Lb., 85c.**

ARLINGTON WHITE SPINE.—A favorite extra early variety, of desirable size, handsome shape, dark green color, holding its color longer than most others. Good shipper and sells well. **Pkt., 5c. Oz., 10c. ¼ lb., 30c. Lb., 85c.**

EARLY GREEN PROLIFIC.—A very productive variety, having fruits of good length and handsome form. Desirable for producing pickles of medium size and of fine quality when sliced for the table. **Pkt., 5c. Oz., 10c. ¼ lb., 25c. Lb., 75c.**



WHITE SPINE.

White Wonder

The White Wonder surpasses the White Pearl both in handsome appearance and fine quality, while its strong, vigorous, extremely healthy habit of growth enables the vines to produce a large crop of perfect fruit even under adverse conditions. Its strong constitution is exceptional. The Cucumbers are thickly set throughout the length of the vine, and are remarkably uniform in color, shape and size. **Pkt., 5c. Oz., 10c. ¼ lb., 30c. Lb., \$1.00.**

CUMBERLAND.

A new and distinct variety. Said to have originated from crossing the Parisian Pickling and the Early White Spine. It certainly has the good qualities of each of these sorts. The fruits are large, symmetrical, dark green, covered with innumerable small white spines, and are of prime quality for slicing. The vine is vigorous, wonderfully prolific, and continues in bearing much longer than most sorts. **Pkt., 5c. Oz., 10c. ¼ lb., 30c. Lb., 90c.**

IMPROVED LONG GREEN.

Has long been a favorite with growers; dark green, firm and crisp. Superior for pickles and for market. **Pkt., 5c. Oz., 10c. ¼ lb., 30c. Lb., \$1.00.**

LONG GREEN TURKEY.—A very showy and excellent sort. **Pkt., 5c. Oz., 10c. ¼ lb., 30c. Lb., \$1.00.**

CHICAGO PICKLING.

Very Popular with Chicago Market Gardeners, and Extensively Grown
in That Vicinity.

Fruit medium length, pointed at each end, with very large and prominent spines; color deep green. **Pkt., 5c. Oz., 10c. ¼ lb., 25c. Lb., 75c.**

GHERKIN, OR BURE.

Used for Pickles Only.

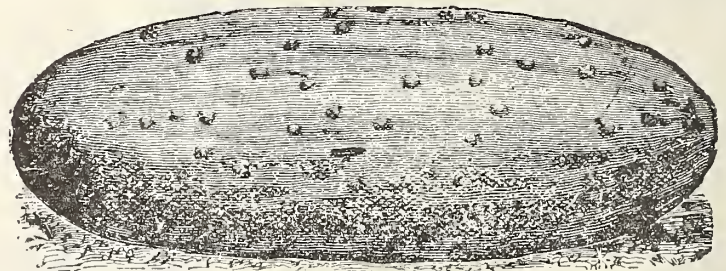
Pkt., 5c. Oz., 20c. ¼ lb., 50c. Lb., \$1.75.



WHITE WONDER.



IMPROVED LONG GREEN.



JERSEY PICKLING.

This is the most popular sort with the market gardeners around Baltimore and Philadelphia for pickling. Said to green better than any other variety. **Pkt., 5c. Oz., 10c. ¼ lb., 25c. Lb., 75c.**

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

CUCUMBER--Continued

EVER-BEARING CUCUMBER



This variety is unique, and will prove valuable both for the table and for pickling. Is of small size, very early, enormously productive and extremely valuable as a green pickler. The peculiar merit of this new Cucumber is that the vines continue to flower and produce fruit until killed by frost, whether the ripe Cucumbers are picked off or not, in which respect it differs from all other sorts in cultivation. Pkt., 5c. Oz., 10c. 1/4 lb., 25c. Lb., 75c.

COOL AND CRISP

This is the earliest and one of the most prolific pickling Cucumbers. The Cucumbers are straight, long, even and slim, and of a dark color; it is very tender and crisp. Pkt., 5c. Oz., 10c. 1/4 lb., 25c. Lb., 75c.

EARLY CLUSTER

A short, prickly variety, bearing in clusters near the root. A good bearer. Pkt., 5c. Oz., 10c. 1/4 lb., 25c. Lb., 75c.

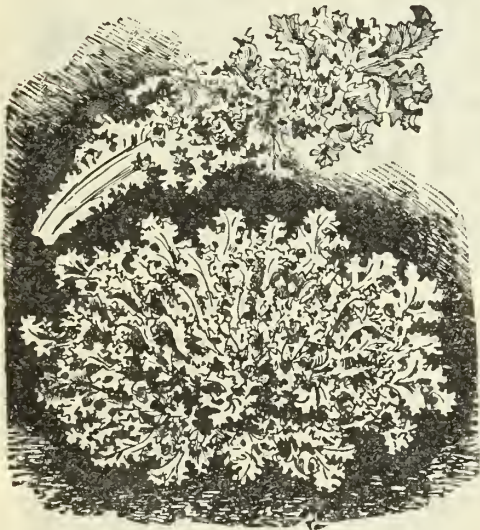
JAPANESE CLIMBING CUCUMBER

It bears abundantly throughout the season, while the climbing habit enables the hanging fruit to grow perfectly straight, from 12 to 16 inches in length; the Cucumbers are thick, tender and of delicate flavor; flesh white, skin dark green, turning to brown, and netted when ripe. Pkt., 10c. Oz., 15c. 1/4 lb., 40c.

TELEGRAPH (English Forcing)

Should be grown in hotbeds where the temperature does not fall below 65 degrees at night. 25c. Packet.

Green Curled Endive



GREEN CURLED ENDIVE.
German, Endivien

Is One of the Best Salads for Fall and Winter Use. One Ounce of Seed to 150 feet of Row.

For early use, sow as soon as the ground can be worked in the spring, in drills 15 inches apart, and then thin plants to 6 or 8 inches in the row. To blanch the leaves, gather them carefully together when perfectly dry and tie them with matting or soft fibrous material. Another method is to invert flower pots over the plant. The leaves are very highly esteemed for use as salads.

GREEN CURLED.—The best sort in use. Useful as a salad, and also used for garnishing. Pkt., 5c. Oz., 15c. 1/4 lb., 35c. Lb., \$1.00.

German, EGG PLANT Eierpflanz

CULTURE.—Sow the seed in hotbeds early in March. When three inches high pot the young plants, using small pots, and plunge them in the same bed so that the plants may become stocky. They can be planted out from the pots when the season becomes sufficiently warm in May or June, or they can be transplanted into a second bed to make them strong until the weather is warm enough to transplant about three feet apart each way in thoroughly-worked and well-enriched soil. Draw the earth up to the stems when about a foot high. Egg Plant Seed will not vegetate freely without a strong, uniform heat, and if the plants get the least chilled in the earlier stages of growth they seldom recover. Therefore, repeated sowings are sometimes necessary. Care should be observed in cutting the fruit so as not to disturb the roots of the plants. One ounce will produce about 1000 plants.

BALTIMORE EGG PLANT.—This is decidedly the best and most profitable and Egg Plant in cultivation. It is large, thornless, of beautiful shape and handsome purple color. Pkt., 10c. Oz., 30c. 1/4 lb., \$1.00. Lb., \$3.00.

BLACK BEAUTY EGG PLANT.—The earliest of all large fruited Egg Plants, and produces fruit quite as large as the NEW YORK PURPLE in 10 days' less time.

BALTIMORE



The fruit is symmetrical in shape, of uniform size, of a dark rich purple color, which does not fade or change to lighter color at blossom end like some other varieties. Just the variety for the market gardener and trucker for early spring trade. Pkt., 10c. Oz., 35c. 1/4 lb., \$1.25. Lb., \$3.75.

NEW YORK IMPROVED LARGE PURPLE EGG PLANT.—This market garden variety has plants of strong growth, and is very productive, producing plants of large size and fruits of smooth, deep purple color until frost. Pkts., 5c. and 10c. Oz., 30c. 1/4 lb., 90c. Lb., \$3.00.

THE FLORIDA HIGH-BUSH EGG PLANT.—Is in great demand by Southern truckers. It has a very vigorous growth and remarkably hardy. The plant grows very erect and holds the fruits clear of the ground. Pkts., 5c. and 10c. Oz., 25c. 1/4 lb., 75c. Lb., \$2.75.

EGG PLANT



EXTRA CURLED NEW AMERICAN KALE.

KALE

German,
Blätter-Kohl

One Ounce of Seed Will Sow a Drill of About 200 Feet.

The Kales are more hardy than Cabbage, and make excellent greens for winter and spring use, and are improved by frost. For early spring use, sow broadcast in September and protect during winter. It must also be sown in April or May for later use.

DWARF GREEN GERMAN KALE.—This variety sow in September broadcast, and gather in early spring, like spinach. It may also be sown early in the spring for later use. Pkt., 5c. $\frac{1}{4}$ lb., 15c. Lb., 40c.

NORFOLK.—A variety used by the truckers of Norfolk for shipment North. Light green color and leaves much curled. Pkt., 5c. Oz., 10c. $\frac{1}{4}$ lb., 20c. Lb., 75c.

EXTRA CURLED NEW AMERICAN KALE.—This is an extra curled, long-standing variety of a beautiful green color; stands the winter well, and will stand longer in the spring before going to seed than any other variety. Pkt., 5c. $\frac{1}{4}$ lb., 15c. Lb., 40c.

NEW IMPERIAL CURLED LONG-STANDING KALE.—Pkt., 5c. Oz., 10c. $\frac{1}{4}$ lb., 15c. Lb., 40c.



DWARF GREEN GERMAN KALE.

LEEK

German,
Lauch

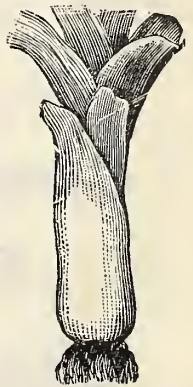
1 OZ. OF SEED TO 150 FEET OF ROW.

Select good Onion soil, manure liberally, plant in April in drills 6 to 8 inches deep, and 18 inches apart, and thin to 9 inches apart in the drill. Gradually draw the earth around the plants until the drills are filled level with the surface. Draw for use in October. To be used in soups or boiled as Asparagus.

EXTRA LARGE MAMMOTH.—A large and strong plant; hardy. The best variety for general culture. Pkt., 5c. Oz., 20c. $\frac{1}{4}$ lb., 60c. Lb., \$2.00.

MUSSELBURGH.—Oz., 20c. $\frac{1}{4}$ lb., 60c. Lb., \$2.00.

LARGE ROUEN.—Pkts., 5c. and 10c. Oz., 20c. $\frac{1}{4}$ lb., 60c. Lb., \$2.00.



KOHLRABI

1 OZ. OF SEED TO 100 YARDS
OF ROW.

WHITE VIENNA

BULB LIGHT GREEN.
FLESH WHITE.
VERY RAPID IN GROWTH.
EARLY MATURITY.
FINE IN TEXTURE, and
SYMMETRICAL IN FORM.
SUPERIOR.

Oz., 20c. Pkts., 5c. and 10c. $\frac{1}{4}$ lb., 60c.
Lb., \$2.00.

IMPROVED KOHLRABI.—Pkts., 5c. and 10c. Oz., 15c. $\frac{1}{4}$ lb., 50c. $\frac{1}{2}$ lb., 90c. Lb., \$1.75.

LETTUCE

German. Lattich

Lettuce requires a rich and rather moist soil. The rows should be about 12 inches apart, and the plants thinned to 10 or 12 inches apart for the leading varieties. The more rapid the growth, the better the quality. Some varieties are peculiarly adapted for early culture, others for summer growth.

G. & T. Co.'s White Seed Summer Lettuce

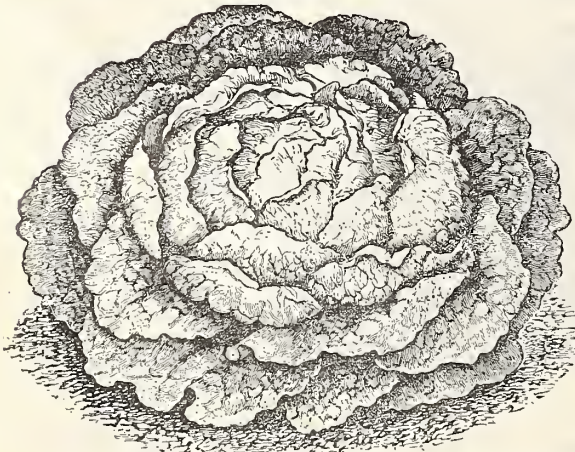
The Best Summer Lettuce Ever Introduced.—This variety, introduced by us recently, has exceeded our expectation. Those who purchased it were delighted with their crops, and came back for more seed. This Lettuce will stand the summer heat better than most sorts, and makes magnificent heads. We expect this sort to grow in favor wherever known. It has a beautiful green color; head solid; light leaves, nicely crinkled; very tender, and of most excellent flavor. Pkt., 5c. Oz., 20c. $\frac{1}{4}$ lb., 40c. Lb., \$1.25.

G. & T. CO.'S SUMMER LETTUCE (Black Seed).—This Lettuce is becoming very popular among gardeners for summer use. It produces a splendid large, solid head, of the Cabbage type, remaining a long time in prime condition without going to seed; in fact, it is often necessary for the seed growers to slit open the head in order to allow the seed stalk a chance to develop. It is of a light green color, fine quality, crisp, tender, and nearly every plant will make a fine, solid head in the hottest weather, when other varieties refuse even to grow. Pkts., 5c. and 10c. Oz., 20c. $\frac{1}{4}$ lb., 30c. Lb., \$1.00.

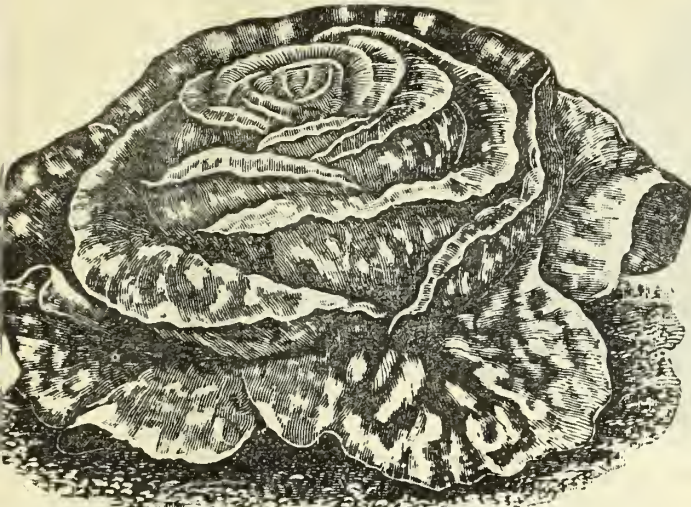
EARLY WHITE CABBAGE, OR BUTTER.—A broad-leaved, vigorous-heading sort; white, showy and desirable. Pkt., 5c. Oz., 20c. $\frac{1}{4}$ lb., 30c. Lb., \$1.00.

EARLY CURLED SIMPSON.—Black seed. Very early; excellent for salads; forms a compact mass of leaves. Pkts., 5c. and 10c. Oz., 20c. $\frac{1}{4}$ lb., 30c. Lb., 90c.

TENNIS BALL.—Black seed. A favorite forcing variety; a very hard head. Pkts., 5c. and 10c. Oz., 20c. $\frac{1}{4}$ lb., 30c. Lb., 90c.



LETTUCE—Continued



BALTIMORE CABBAGE LETTUCE.



LARGE LOAF LETTUCE.



BIG BOSTON.

The same in color, shape and general appearance as the Boston Market, double the size. A most desirable sort either for forcing in cold frames or planting in open ground. Is popular with truckers, as it makes large, solid, salable heads. Very highly recommended by those who have tried it.

Pkts., 5c. and 10c. Oz., 20c. ¼ lb., 30c. Lb., \$1.00.

BALTIMORE CABBAGE LETTUCE

G. & T. CO.'S TRUE STOCK.

Large Heads, Beautiful Heads, Solid Heads; Stands Heat Well. Best of all for **FALL PLANTING.**

THIS new Lettuce, which we introduced a few years ago, and claimed to be one of the best ever put on the market, and which produced such a sensation among the large growers who tried it, still holds a high place among lettuce. As soon as the growers discovered its merits they came for more seed, and recommended it to all their friends; these, in turn, were delighted with their crops, as the result more than justified all we claimed for it. A grower at Gardenville, Md., says: "I had 3000 heads of your Baltimore Cabbage Lettuce, and they all headed but one; they are slow to run to seed." The heads are large and solid; color pretty light green, and very slow to seed; in fact, it is just what the truckers and gardeners want. A large trucker in New Jersey writes: "The Baltimore Cabbage Lettuce I had of you was certainly very fine." Pkts., 5c. and 10c. Oz., 20c. ¼ lb., 40c. Lb., \$1.25.

LARGE LOAF LETTUCE.

THIS is so well known to truckers and gardeners around Baltimore and Norfolk that for them it scarcely needs description. For the benefit of those who are not acquainted with it, would say it makes large, compact heads, is of beautiful light green color, very tender and crisp. This is unsurpassed for frame use, and is also an excellent outdoor lettuce for fall or early spring.

Pkt., 5c. Oz., 20c. ¼ lb., 40c. Lb., \$1.25.

MAMMOTH BLACK-SEEDED BUTTER LETTUCE.

A strain of large, smooth-leaved, head lettuce, forming very large, solid cabbage-like heads of thick, brittle leaves, the inner ones becoming very white, tender and fine flavored.

Pkts., 5c. and 10c. Oz., 20c. ¼ lb., 40c. Lb., \$1.25.

ROMAINE, OR PARIS WHITE COS.—Differs entirely in shape from the other varieties, the head being elongated and of conical form, eight or nine inches in height and five or six inches in diameter. The outer coloring of this variety is yellowish green. It is very hardy and of good flavor. To blanch perfectly it must be tied up.

Pkts., 5c. and 10c. Oz., 20c. ¼ lb., 40c. Lb., \$1.25.

BALTIMORE OAK LEAF.—This lettuce will resist the heat of summer and stand longer before running to seed than any variety we have ever known. It makes a large, solid head, and is very popular with those who know it.

Pkts., 10c. Oz., 20c. ¼ lb., 50c. Lb., \$1.50.

BIG HEAD LETTUCE.

The "Big Head" is certain to please market gardeners and truckers, because it always produces large, salable heads. It is very solid and crisp, of tender quality, which makes it attractive. Pkts., 5c. and 10c. Oz., 20c. ¼ lb., 35c. Lb., \$1.00.

IMPROVED NEW YORK, OR "WONDERFUL."

Plants of extra large growth, producing heads of immense size under favorable conditions. Inner portion is beautifully blanched and stands for a considerable time before running to seed. Outer leaves a deep, rich green. Pkts., 5c. and 10c. Oz., 20c. ¼ lb., 30c. Lb., \$1.00.

CALIFORNIA CREAM BUTTER LETTUCE.

This is fairly well known, and has given good results with the growers. Pkts., 5c. and 10c. Oz., 20c. ¼ lb., 35c. Lb., \$1.00.

HANSON.

A variation of the Indiana, forming a half-closed head. Pkts., 5c. and 10c. Oz., 20c. ¼ lb., 30c. Lb., \$1.00.

BOSTON MARKET.

White seed. A celebrated variety in New England, of good heading habit; small, early and compact; quite desirable. Pkts., 5c. and 10c. Oz., 20c. ¼ lb., 30c. Lb., \$1.00.

GRAND RAPIDS.

This variety is largely grown for shipment, and is considered by many the best loose-headed Lettuce for forcing under glass. Leaves medium size, of light, yellowish green color, much crimped and frilled, thin, but of very upright growth; crisp, tender and of good quality. Owing to its upright habit, it may be planted very closely. It is of extremely rapid growth; not very liable to rot; will stand without spoiling a week to ten days after it is fit to cut, and retains its freshness a long time after cutting. Pkts., 5c. and 10c. Oz., 20c. ¼ lb., 30c. Lb., \$1.00.

DEFIANCE.

Stands summer heat better than any other variety; one of the finest large-growing varieties. It forms very large, solid heads, so firm they have to be cut open to allow the flower heads to come through. Pkts., 5c. and 10c. Oz., 20c. ¼ lb., 40c. Lb., \$1.25.

SALAMANDER (Black Seed).

An excellent sort for spring or summer use; forms good-sized heads of excellent quality. Pkts., 5c. and 10c. Oz., 20c. ¼ lb., 30c. Lb., \$1.00.

Muskmelon

German, Melon

NEW MARYLAND

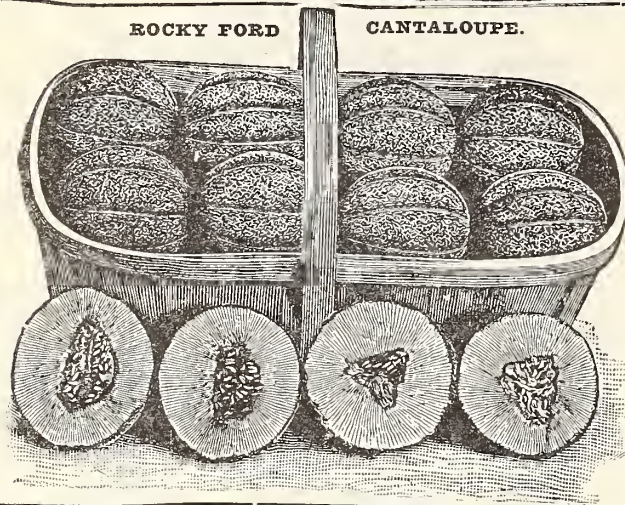


CULTURE.—One ounce of seed to 50 hills. Sow about the last of spring or the first of summer in hills of light, rich, sandy soil, 4 feet apart, allowing but three plants to grow in each hill; after they have grown about a foot long, pinch off the points of shoots, which causes the vines not only to become stronger, but makes them produce lateral branches and prove more productive and mature earlier. It should not be grown near squashes, cucumbers or pumpkins, as the flavor will be affected in consequence.

NEW MARYLAND CANTALOUPE.—The latest acquisition to our collection of muskmelons. It is earlier, larger and cuts better than the Rocky Ford. Flesh is green, of fine flavor and heavily netted, making it the most attractive melon on the market. A sure moneymaker. Our truckers around Baltimore will have no other after planting our New Maryland. **Pkt., 5c. Oz., 15c. ¼ lb., 50c. Lb., \$1.50.**

ROCKY FORD

CANTALOUPE.



ROCKY FORD MELON

This has become one of the most popular of small or basket melons, largely owing to the fact that growers in the Rocky Ford region pack and ship their fruit in a most attractive manner. The fruit is oval, slightly ribbed, densely covered with coarse netting. Flesh thick, green, very sweet and high-flavored.

We have an exceptionally fine stock of this variety grown from choice selected specimens. **Pkt., 5c. Oz., 10c. ¼ lb., 20c. Lb., 65c.**

Baltimore Nutmeg Cantaloupe

The Old Standard Variety That Has Found Favor Wherever Grown.

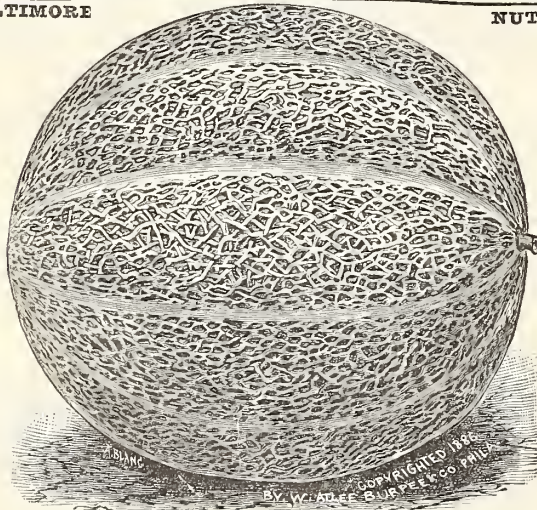
The stock seed of this splendid melon was secured from a trucker who enjoys the reputation for raising the finest Cantaloupes that come to the Baltimore market. The writer also tested the fruit, and found it to be of excellent flavor. It is green-fleshed, and the rind is handsomely netted. It is well known and popular with the truckers and market gardeners of Baltimore, Washington, Norfolk and other places; in fact, it is a leading sort all over the country. **Pkt., 5c. Oz., 10c. ¼ lb., 25c. Lb., 75c.**

IMPROVED JENNE LIND.

A small, early variety of surpassing good quality, highly recommended for family garden. We consider this the most delicious Cantaloupe we have ever eaten, and while the fruit is small, it is an abundant bearer. A market gardener having this sort for sale would in a short time have no difficulty in disposing of all he could raise. **Pkt., 5c. Oz., 10c. ¼ lb., 25c. Lb., 75c.**

BALTIMORE

NUTMEG.



EMERALD GEM.

Meat, salmon color, exceedingly sweet and delicious; very early and prolific. One of the best for family use. Its appearance is not attractive, but try it, and you will want it again. **Pkt., 5c. Oz., 10c. ¼ lb., 25c. Lb., 75c.**

OSAGE, OR MILLER'S CREAM.

Most delicious. The flesh is a rich salmon color, very thick, sweet and rich; rind very thin and finely netted. **Pkt., 5c. Oz., 10c. ¼ lb., 30c. Lb., 90c.**

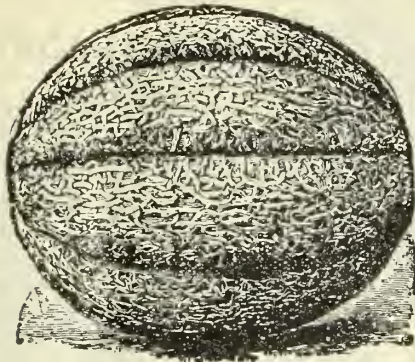


EARLY NETTED GEM.

EXTENSIVELY grown, and many prefer it to all others for table use. Grows remarkably uniform; thick meated; flesh light green in color, and of fine, luscious flavor; skin green, regularly ribbed and thickly netted; very productive and extra early in ripening; will keep for nearly a week after picking, and is especially suited for shipping in baskets or crates. **Pkts., 5c. and 10c. ¼ lb., 25c. Lb., 65c.**

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

MUSK MELONS—Continued

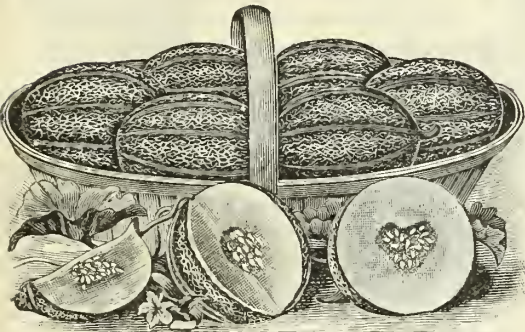


KNIGHT CANTALOUPE.

Knight Cantaloupe

A New Early Cantaloupe of Superb Quality and at the Same Time Makes an Excellent Market or Shipping Melon

This new Cantaloupe has been grown in Anne Arundel county for the past several years, and has created a furore with our truckers, on account of its earliness, productiveness, uniformity in shape and appearance and its fine table qualities. It matures about a week earlier than the regular Rocky Ford, is larger in size and makes a most attractive and salable melon. It has thick, green flesh, shading to orange at the center. The fruits are oblong in shape, well ribbed and well netted. It is a leader, both for planting for home use and market and for shipping. Its early maturity, together with its fine qualities, are strong points in its favor. **Pkt., 5c. Oz., 15c. ¼ lb., 40c. Lb., \$1.50.**



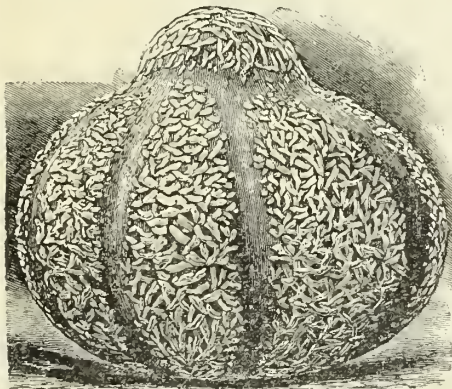
PAUL ROSE.

PAUL ROSE.—In this new sort are combined all the good qualities of the Netted Gem and the Osage, the varieties from which it originated. The fruit is oval, about 5 inches in diameter, and in shape and general appearance similar to the well-known Netted Gem or Rocky Ford. The firm flesh is a rich orange-red color, like that of the Osage, but even sweeter and higher flavored, retaining its good qualities quite to the rind. We think it really has no equal as a market melon for professional melon-growers, and it is one of the very best sorts for the home garden. **Pkt., 5c. Oz., 10c. ¼ lb., 30c. Lb., 75c.**

Anne Arundel Cantaloupe

(Original Stock.)

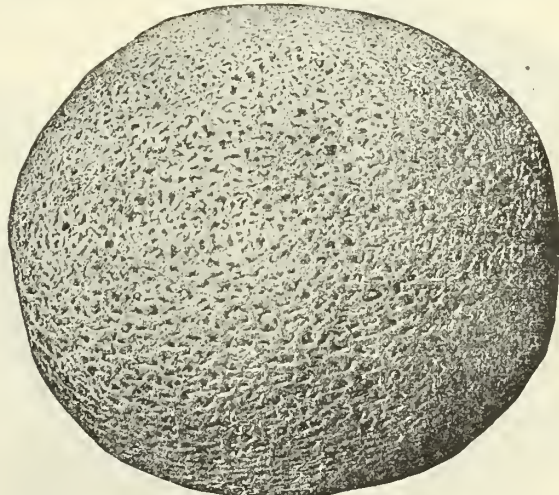
This handsome melon, introduced by us several years ago, was for years a special favorite with a number of the leading growers of Anne Arundel county, Maryland. This county is justly celebrated as growing the finest Cantaloupes in the country. We might almost say the finest in the world. Knowing its value, we selected the stock and placed it before our customers. It has met every promise we made for it upon its introduction. **Pkt., 5c. Oz., 10c. ¼ lb., 25c. Lb., 75c.**



NORFOLK BUTTON

Eden Gem or Netted Rock

One of the handsomest melons in our list. Splendid shape and thorough netting and absence of deep spaces between the ribs, indicating strong shipping properties. The flesh is unusually thick, the seed cavity very small, the flavor exquisite. A heavy yielder, the melons very uniform, but few run too large, and still fewer too small. For shipping we recommend it highly; also for home growers. **Pkt., 5c. Oz., 10c. ¼ lb., 35c. Lb., \$1.00.**



Netted Rock or Eden Gem Cantaloupe.

An improved strain of Early Jenny Lind, having a nub or button on the blossom end, which gives it a distinction over all other varieties. It is very early, of remarkably fine texture and delicious flavor, and produces fruits of the finest quality. It is extra fine for both home and market use. We are putting the above on the market for the first time, and have but a limited supply of seed. Those who wish to secure a trial order will do well by placing their order at once. **Pkts., 5c. and 10c. ¼ lb., 25c. Lb., 90c.**

Extra Early Hackensack

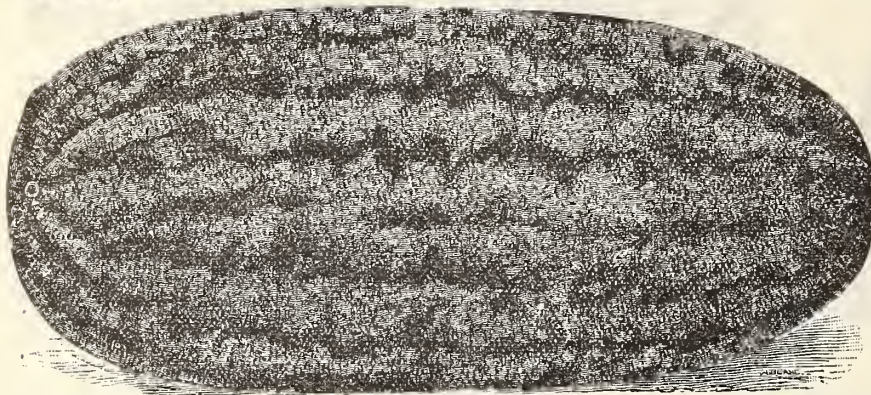
Netted green flesh and excellent; very showy market variety and an excellent keeper. Ten days earlier than the Old Hackensack. **Pkt., 5c. Oz., 10c. ¼ lb., 25c. Lb., 75c.**

LONG ISLAND BEAUTY.—**Pkt., 5c. Oz., 15c. ¼ lb., 25c.**

WATERMELONS

German—
Wasser Melon

CULTURE.—One ounce of seed to thirty hills. Watermelons require a rich, sandy soil for best development. Cultivate the same as for cantaloupes, except that the hills should be eight or ten feet apart.



LORD BALTIMORE.

LORD BALTIMORE

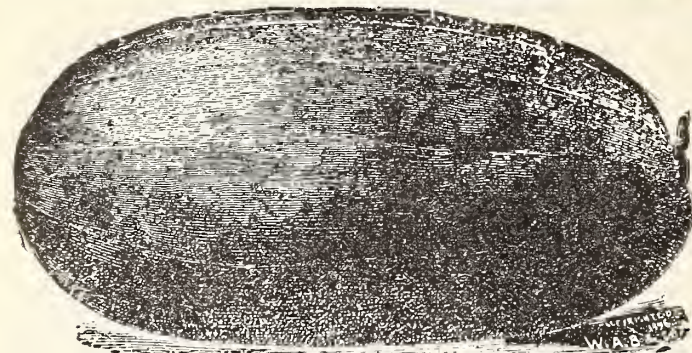
It is very early, of oblong shape, and the flesh is of handsome crimson color, deliciously sweet and extending close up to the rind. It has a thin, hard rind, beautifully mottled light and dark green. Its perfect shape, faultless color, fine texture and excellent flavor combine to make it one of the very best melons that grows. It is a good shipper, and beats all others as a seller.

Pkt., 5c. Oz., 10c. $\frac{1}{4}$ lb., 20c. Lb., 60c.

TOM WATSON (New).

A recent introduction. A large oblong melon, dark green skin, with thin, tough rind, which gives it excellent shipping qualities. Melons are produced from 18 to 24 inches long and from 8 to 12 inches in diameter. Flesh, deep red, crisp, melting and of the finest flavor. Heart large, with little or no core. One of the best eating melons known.

Pkt., 5c. Oz., 10c. $\frac{1}{4}$ lb., 25c. Lb., 75c.



TOM WATSON.

FLORIDA FAVORITE

This we consider one of the richest and sweetest flavored melons grown, of medium size and prolific. The best of all for family garden. It is now very popular with the truckers and melon-growers of Maryland and Virginia, and sells readily in the Baltimore markets.

Pkt., 5c. Oz., 10c. $\frac{1}{4}$ lb., 20c. Lb., 50c.

DUKE JONES WATERMELON

In shape the **DUKE JONES** resembles very closely the Kolb Gem. The rind is darker green in color, with indistinct irregular stripes of dark and light green alternating; in general appearance it is a dark green melon. It averages very large in size, comparatively no small melons; is very productive; it is also very early in maturing.

Pkt., 5c. Oz., 10c. $\frac{1}{4}$ lb., 20c. Lb., 50c.

McIVER'S SUGAR WATERMELON.

In outward appearance it somewhat resembles the old Rattlesnake. The quality is much superior. It is an extremely productive and hardy variety.

Pkt., 5c. Oz., 10c. $\frac{1}{4}$ lb., 20c. Lb., 50c.

FORDHOOK EARLY.

This is a very early variety, growing to a good size; color, medium green; form, nearly round; seeds, white; flesh, bright red and very sweet.

Pkt., 5c. Oz., 10c. $\frac{1}{4}$ lb., 20c. Lb., 60c.

BLACK BOULDER.

It is enormously productive, reaching a mammoth size, with rich, dark green skin. It cuts equal to any melon we have ever eaten, and its shipping qualities are phenomenal, no other melon equalling it in tough skin and rind; in this respect even superior to the Kolb Gem.

Pkt., 5c. Oz., 10c. $\frac{1}{4}$ lb., 20c. Lb., 50c.

KLECKLEY'S SWEETS.

Skin dark green, thin rind, flesh scarlet, very solid, firm and most luscious quality. For the home market or family garden it is decidedly one of the best.

Pkt., 5c. Oz., 10c. $\frac{1}{4}$ lb., 20c. Lb., 60c.



FLORIDA FAVORITE.

TRIUMPH WATERMELON

Is very prolific, very early and of uniformly large size. The rind, like Duke Jones, is of dark green color; the seed is exactly the same color as that of Kolb Gem.

Pkt., 5c. Oz., 10c. $\frac{1}{4}$ lb., 20c. Lb., 50c.

GRAY MONARCH, OR LONG WHITE ICING.

This distinct melon is without a doubt one of the largest of all, frequently attaining a weight of 70 pounds and over. The skin is a mottled gray color, shape long, flesh bright crimson and of sweet, delicious flavor. It is also a fine shipper, carrying well long distances and bringing very high prices.

Pkt., 5c. Oz., 10c. $\frac{1}{4}$ lb., 20c. Lb., 50c.

RATTLESNAKE WATERMELON.

Large, oblong, striped and mottled; flesh bright red; a good shipper; a favorite variety in the South.

Pkts., 5c. and 10c. $\frac{1}{4}$ lb., 20c. Lb., 50c.

BLACK STRIPED KOLB GEM WATERMELON.

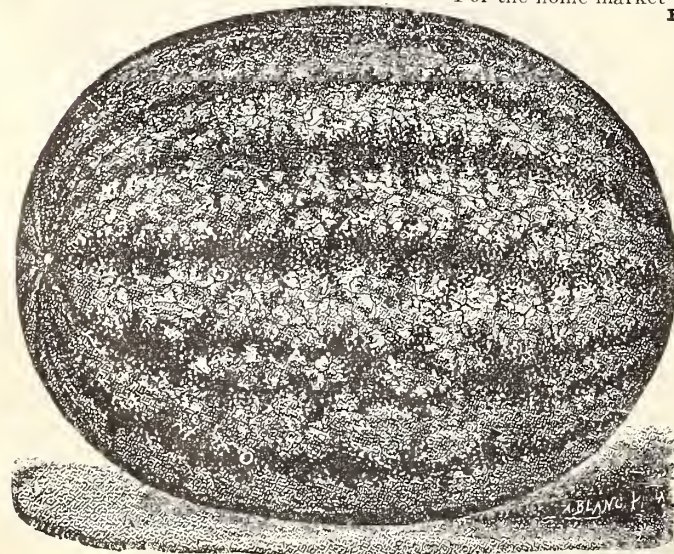
The size of this fruit is uniformly large; shape, oval; color, a rich dark green, with fine stripes of lighter shade; much darker and richer than the old well-known Kolb Gem. The exceptionally strong rind makes it an excellent shipper.

Pkt., 5c. Oz., 10c. $\frac{1}{4}$ lb., 20c. Lb., 50c.

CITRON—For Preserves.

Fruit round and handsome. Used in making preserves only.

Pkts., 5c. and 10c. $\frac{1}{4}$ lb., 20c. Lb., 75c.



DUKE JONES.

WATERMELONS—CONTINUED

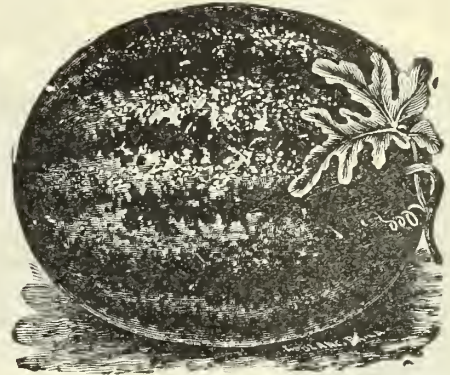


BLUE GEM

This splendid Melon resembles the Kolb Gem in shape, and is one of the very best shippers and as table melon; is of a dark bluish color, with small grayish stripes. Is much superior to the Kolb Gem. Very productive, and is handsome and showy.

A grower in Dixie (Georgia) says: "If you want a shipper that will go around the world, you can safely select the **BLUE GEM.**" Pkts., 5c. and 10c. ¼ lb., 20c. Lb., 50c. 5 lbs., \$2.25.

KOLB'S GEM



This is one of the largest, most productive, best keeping and best shipping Watermelons grown. Sells readily at the highest market prices. In fact, it is so well known that it speaks for itself. Our stock of this comes direct from the original grower. Special prices on large quantities.

Pkts., 5c. Oz., 10c. ¼ lb., 20c. Lb., 40c.

DIXIE.

It is earlier and larger than the well-known and popular Kolb Gem, and in color a darker green, with beautiful stripes, making it one of the handsomest melons on the market. Flesh deep red, sugary and melting.

Pkts., 5c. and 10c. ¼ lb., 20c. Lb., 50c.

SWEETHEART.

An entirely distinct and handsome new Watermelon. Vine vigorous and productive, ripening early. Fruit large, oval, very heavy, uniformly mottled light and dark green. Flesh bright red, solid and very sweet.

Pkt., 5c. Oz., 10c. ¼ lb., 20c. Lb., 50c.

ENGLISH MILL TRACK MUSHROOM SPAWN

Lb., 15c. By Mail, 25c. Lb., Postpaid. 10 Lbs., \$1.00. 100 Lbs., \$3.00, by Freight or Express.

CULTIVATION

The cultivation of the Mushroom is a very simple matter and requires only ordinary intelligence and care. The materials needed are fresh horse manure, good soil and live spawn. The manure should not be too short, as it does not combine the necessary qualities. Long strawy litter, plentifully mixed with short manure, makes by far the best beds, as it does not heat too violently, decomposes slowly and retains its heat for a long period. Put in a heap and turn every three or four days to permit the escape of noxious gases and prevent burning. When ready for use it should be as hot as can be borne comfortably by the hand, and should also be moist. Make the beds 3 feet wide at the base, 2½ feet high, and of any desired length. The manure, when in proper condition, should be quickly handled to prevent the loss of heat, and be beaten down to make the heap firm and compact, and covered with long litter. The bed should within a few days warm to a temperature of 110 to 120 degrees. Never spawn a bed when the heat is rising, but always on the decline and under 90 degrees. Have a ground thermometer, and keep it plunged in the bed; by pulling it out and looking at it you can ascertain exactly the temperature of the bed. Should the temperature not exceed 100 or 110 degrees, no alarm should be felt, for if the manure was fresh it will likely produce a good crop. When the heat has decreased to 90 degrees, the bed is ready to receive the spawn, which is done by raising the manure with the hand and inserting pieces of spawn 2 inches square and 9 inches apart each way. At the expiration of a few days the bed may be covered with soil to the depth of about 2 inches. If in a closed cellar or mushroom house, wait about ten days, but if in open shed five days will do. If the soil is poor, add a liberal quantity of bone meal. It requires a period of 5 to 7 weeks before they are ready for use. Two pounds of spawn are sufficient for a bed 3 feet by 6 feet.

Mushrooms can be readily grown in cellars, stables, sheds or pits. Many are successively grown on a shelf in an ordinary cellar, and yield sufficient crops to compensate the grower for his effort. The space under greenhouse benches or stagings will suit them exactly, using materials in the same manner as described.

MUSHROOMS ON PASTURE LAND OR LAWN.—About the first of June take pieces of spawn an inch square and lift the sod with a trowel or spade just sufficient to get a spawn under it, and then press the soil down hard. Set the spawn 1 to 2 feet apart. In a favorable season a crop may be expected in 3 or 4 months from the time of planting.

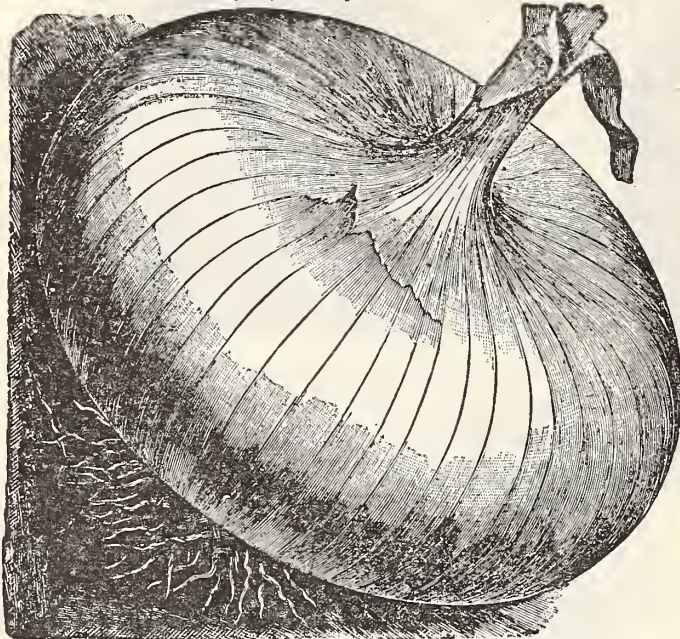


ENGLISH MILLTRACK MUSHROOM SPAWN

ONION SEED

German, Zurichel

CULTIVATION TO GROW LARGE ONIONS FROM SEED.—The seed should be sown as early as possible in the spring, as they grow much better during the cool weather, and should make most of their growth before the hot weather sets in. Sow 5 pounds of seed to the acre for large onions.
THE NEW ONION CULTURE.—Sow the seed in hotbed and transplant early as possible to open ground. They can be grown very successfully by this plan.

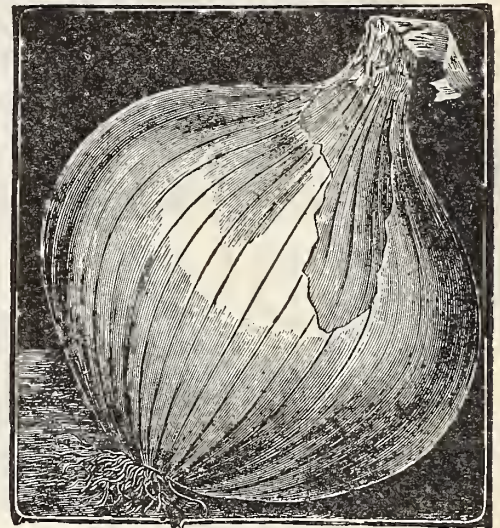


WHITE SILVERSKIN, or PORTUGAL.—A good variety for family use; skin and flesh pure white, mild flavor and flat shape. The best white onion to grow largely for sets. **Pkts., 5c. and 10c. Oz., 20c. ¼ lb., 50c. Lb., \$1.75.**

WHITE PEARL ONION.—Earliest of all, growing with all the rapidity of a summer radish. Pearly white, waxy and transparent. Form flat and broad, flavor very mild, and it can be eaten raw almost like an apple. On rich soil it will grow very large. This is an elegant sort to sow for large onions, because of its rapid growth and fine quality. **Pkts., 5c. Oz., 20c. ¼ lb., 40c. Lb., \$1.40.**

AUSTRALIAN BROWN—A Valuable Long-Keeping Onion.—This new Onion, introduced into the United States a few years since, has met with wonderful success, and is pronounced the best keeper of all onions. The outside skin is of a deep amber brown, distinct from all other onions, extremely hard and firm, of fine flavor, and will keep almost indefinitely. Australian Brown is the only onion Australian growers will plant. **Pkts., 5c. and 10c. Oz., 20c. ¼ lb., 40c. Lb., \$1.25.**

PRIZETAKER



THIS is the large, beautiful onion that is seen every fall offered for sale at the fruit stores in Baltimore and other large cities. It has a rich straw color, and is of enormous size. Although of such large size, it is very hardy and an excellent keeper. The flavor is mild and delicate, making the Prizetaker a favorite variety for salads. By sowing this sort early you can raise a large crop of large onions the first season with very little trouble. All that is necessary is good ground, proper cultivation, and not to have them too thick. Those of our growers who have tried this variety have had remarkably fine success. **Pkt., 5c. Oz., 20c. ¼ lb., 40c. Lb., \$1.40.**

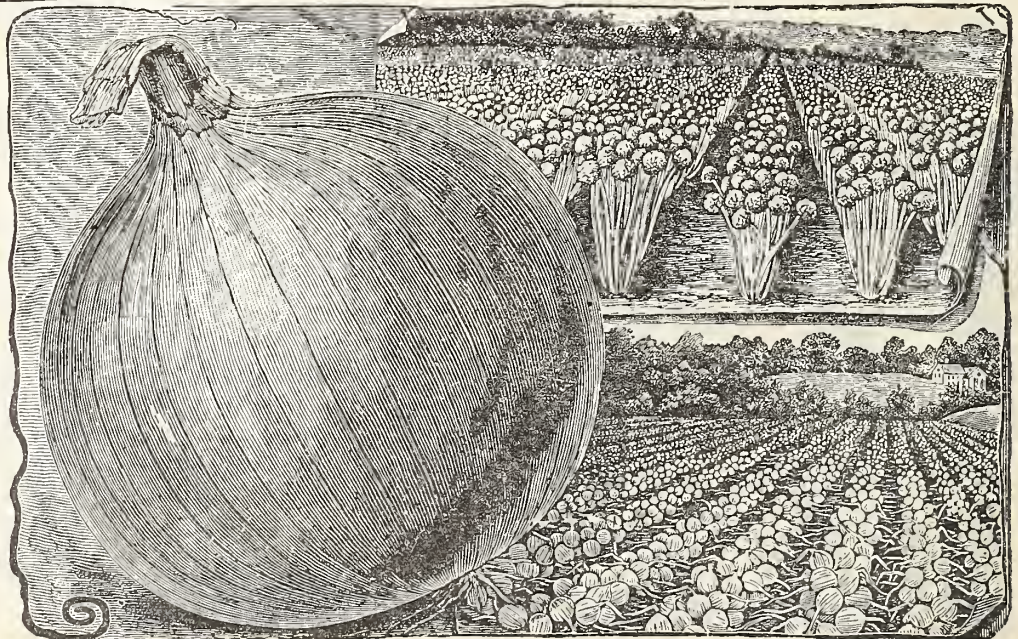
WETHERSFIELD LARGE RED.—Well-known and favorite sort. A large yielder and good keeper. **Pkt., 5c. Oz., 15c. ¼ lb., 40c. Lb., \$1.25.**

LARGE YELLOW DUTCH, OR STRASBURG.—Very fine; a good keeper. The kind used very largely by those who grow onion sets for market. **Pkt., 5c. Oz., 20c. ¼ lb., 35c. Lb., \$1.25.**

Yellow Globe Danvers

A very handsome, round, yellow onion; a large yielder and splendid keeper; the preferred sort with market gardeners and large growers all over the country. We unhesitatingly recommend it for growing either sets or large onions. **Pkt., 5c. Oz., 20c. ¼ lb., 35c. Lb., \$1.25.**

YELLOW FLAT DANVERS.—Pkts., 5c. and 10c. Oz., 25c. ¼ lb., 35c. Lb., \$1.25.



ONION SETS

WHITE—
Qt., 20c.;
mailed, 30c.
YELLOW—
Qt., 15c.;
mailed, 25c.
Write us for
quotations
by the
bushel.



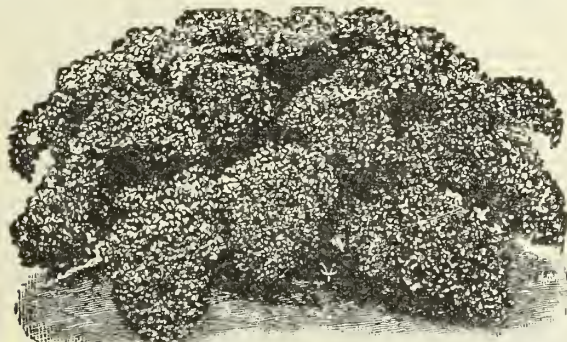
CULTIVATION FOR SETS.

Have a clean and very rich soil, which should be thoroughly cultivated, or it will not do well enough to pay for the trouble. The most successful growers work their ground several times in the fall to kill out the weeds and get ground in nice condition. Use well-rotted manure freely, and be sure to get the seeds in as early as possible in the spring, no matter if it is ever so cold or unpleasant, and keep the soil mellow and clear of weeds, and if seed is good you will have a large crop of onion sets. On no other condition can you hope for success. Disturb the roots of the onion as little as possible, either in thinning or hoeing, and never hoe earth toward them to cover or hill, as we do most other things.

Sow the seed in drills about 12 inches apart. It will require from 40 to 60 pounds to sow an acre.

PARSLEY,

SELECT rich soil; sow the seed in drills one foot apart, covering half an inch deep. It would be well to firm the soil with the foot after sowing the seed. As the seed is usually from 15 to 25 days in germinating, it will be necessary to sow early. Thin plants to 4 inches apart when 2 inches high. The beauty of the plant may be increased by several successive transplantings. It is used principally for flavoring soups, etc., and for garnishing in its natural state.



DWARF EXTRA CURLED.—The most beautiful and valuable variety in use; handsome bright green color; finely crimped, beautifully curled.

Pkt., 5c. Oz., 10c. ¼ lb., 30c. Lb., \$1.00.

MOSS CURLED.—A very select crimped variety.

Pkt., 5c. Oz., 10c. ¼ lb., 30c. Lb., \$1.00.



NASTURTIUM

Plant in May, the climbing varieties to cover arbor or fence, and the dwarf for beds or hanging baskets. The leaves are used for salad, and the seeds, when soft enough to be penetrated by the nail, for pickles.

TALL.—Pkt., 5c. Oz., 10c. ¼ lb., 20c. Lb., 50c.

DWARF.—Pkt., 5c. Oz., 10c. ¼ lb., 20c. Lb., 50c.

OKRA, OR GUMBO



Select warm location and rich soil, and plant when the ground becomes warm, in rows three feet apart, thinning plants a foot apart in the row. As the seeds are liable to rot in cool weather, they should be sown thickly. The pods are used to thicken soup, being gathered when young. It is one of the most wholesome vegetables in use.

DWARF OKRA.

This is the preferred kind with the growers; is of dwarf habit and very productive.

Pkt., 5c. Oz., 10c. ¼ lb., 15c. Lb., 40c.

WHITE VELVET.

It is very distinct, and the pods are perfectly round and smooth, of an attractive white velvet appearance, and of superior flavor and tenderness. The pods are of extra large size, and produced in great abundance.

Pkt., 5c. Oz., 10c. ¼ lb., 15c. Lb., 40c.

PARSNIP

The Parsnip will flourish best and give the longest, largest and smoothest roots in a very deep, rich soil—one that has been made rich from manure the previous year. Fresh manure makes the roots somewhat ill-shaped. Sow as early in the spring as the ground can be made ready, pretty thickly in drills from 12 to 18 inches apart, and about an inch deep. Thin the plants to five or six inches apart.

HOLLOW CROWN OR SUGAR

The Hollow Crown is superior in quality to all other varieties, and the preferred kind with Baltimore gardeners. The roots are smooth, tender, handsome shape and early. We have the finest stock of Hollow Crown Parsnips that we know of in this country.

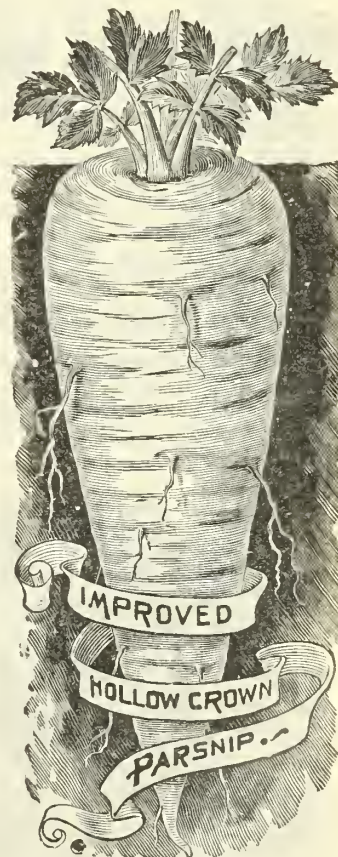
Pkts., 5c. and 10c. ¼ lb., 20c. ½ lb., 30c. Lb., 60c.

MUSTARD GIANT CURLED

Highly esteemed in the South, where the seed is sown in the fall and used in the spring as a salad. Our stock is the true curled leaf, and produces plants two feet high and of greater breadth, forming enormous bunches.

Pkt., 5c. Oz., 10c. ¼ lb., 15c. Lb., 50c.

WHITE MUSTARD.—¼ lb., 10c. Lb., 30c.



PEAS

NOTICE.—In ordering Peas to be sent by mail, please add 8c. per pint to pay postage. The dwarf varieties should be liberally manured; the tall sorts will run too much to vine if heavily manured, it being better to depend on the richness of the land that was previously in good condition. Plant the dwarf in rows two feet apart; those varieties attaining a height of from two to three feet in rows three feet apart, and the rows of the tallest sort four feet apart. Bushing the tall kind when six inches high, on poles set every six or eight feet, with twine fastened to them about four inches apart, will answer finely.

G. & T. CO.'S FIRST EARLY PEAS

(In Sealed Bags, Thoroughly Rogued and Hand-Picked.)

This is the earliest of all and the most profitable early market Pea, because of its early maturity, uniformity of growth and ripening and its productiveness. It ripens up so evenly as only to require about two pickings to secure the crop. It is grown from selected stock, under our own supervision, and the greatest care is exercised to keep it up to the highest standard of quality. It is a great favorite with the truckers, and is largely used by private families. Our sales of this sort increase annually.

Pint, 15c. Quart, 30c. Peck, \$1.75. Bushel, \$6.00.

NEW LARGE PODDED ALASKA.—In general habit and growth resembles the well-known Alaska. Ripening about three days later, but with much longer and thicker pods. Handsomely shaped, of a beautiful dark green color, which is retained long after other varieties have lost their usefulness. The seed is somewhat wrinkled and dented. We strongly recommend this new Pea to gardeners, truckers and shippers as a most productive and large extra early variety.

Quart, 30c. Peck, \$2.00. Bushel, \$8.00.

ALASKA.—Our best rogued and hand-picked stock. Height, 26 inches. The earliest Blue Pea; very uniform in growth and time of ripening. The dark green color of pods makes this a most desirable sort for canners and shippers, as it can be carried long distances without losing color.

Quart, 30c. Peck, \$1.75. Bushel, \$6.00.

DEXTER (Genuine Stock).—Thoroughly rogued and hand-picked.

Quart, 30c. Peck, \$1.75. Bushel, \$6.00.

RURAL NEW YORKER.—Height, 2½ feet. In maturity it is among the first early.

Quart, 30c. Peck, \$1.75. Bushel, \$5.50.

FIRST AND BEST.—Height, 2½ feet. Grown with special care. One of the early varieties.

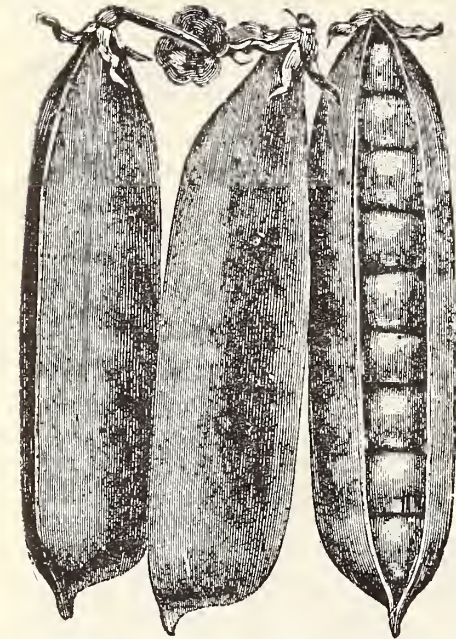
Quart, 30c. Peck, \$1.75. Bushel, \$5.50.

TRIUMPH PEAS.—Quart, 30c. Peck, \$1.75. Bushel, \$5.50.

Philadelphia Extra Early Peas.—Qt., 30c. Peck, \$1.75. Bus., \$5.50.

PEDIGREE EXTRA EARLY.—Introduced several years ago, has steadily increased in favor until now the truckers all want it. Early as Alaska, large pods, white seeded, very prolific. All mature at one time and can be gathered in one picking.

Pint, 15c. Quart, 30c. Peck, \$1.75. Bushel, \$6.00.



EXTRA EARLY VARIETIES.

PROLIFIC EARLY MARKET PEAS

New. Recently introduced. The finest, largest and most prolific extra early variety. Larger than Alaska, nearly as early, quite as prolific. Handsome pods, which command the highest prices. Just the pea for the trucker, market gardener and family garden.

Price: Pint, 15c. Quart, 30c. Peck, \$1.75. Bushel, \$6.00.

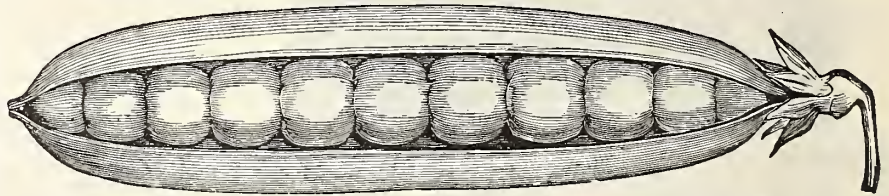
MARYLAND PRIDE PEAS.—Introduced by us last season for the first time, giving universal satisfaction to the market gardeners and shippers. Pods large, of a deep green color and nearly as early as Alaska. Ft., 15c. Qt., 30c. Peck, \$2.50. Bushel, \$9.00.

THOMAS LAXTON.—Habit and growth same as **GRADUS**, but pods are a deeper green color, square at the ends, having fine flavor. Pint, 15c. Qt., 30c. Peck, \$2.50. Bus., \$9.00.

GRADUS, OR PROSPERITY.—Pale Green Wrinkled.—The most attractive novelty of recent years. Large, handsome pods, well filled, ripening with the earliest and of vigorous habit. Pint, 15c. Quart, 30c. Peck, \$2.50. Bushel, \$9.00.

MARYLAND PRIDE

LARGE PODDED EXTRA EARLY SUGAR VARIETIES



DWARF EXTRA EARLY VARIETIES

NOTT'S EXCELSIOR.—It is the best of dwarf wrinkled extra early of recent introduction. The vines are larger and more vigorous than the American Wonder, while the pods are fully one-third larger, containing 6 to 8 fine, large Peas, packed so closely together in the pods that the Peas are always more square than round. The pods are always well filled with Peas, which in sweetness and quality have no superior.

Ft., 15c. Qt., 30c. Peck, \$2.00. Bus., \$7.50.

AMERICAN WONDER.—Very luscious in flavor. Try it. Height, 12 inches. The earliest wrinkled Pea; very productive and sweet. Better suited to the private than to the market garden.

Ft., 15c. Qt., 30c. Peck, \$2.00. Bus., \$7.50.

PREMIUM GEM.—Height, 15 inches. An improvement upon the Little Gem. A splendid wrinkled dwarf Pea; very luscious in flavor.

Ft., 15c. Qt., 30c. Peck, \$2.00. Bus., \$7.50.

MCLAN'S LITTLE GEM.—Similar to Premium Gem, but more straggling in growth; pods not so well filled; height, 18 inches; seed, green, wrinkled.

Ft., 15c. Qt., 30c. Peck, \$2.00. Bus., \$7.50.

BLUE PETER, OR BLUE TOM THUMB.—One of the earliest and hardiest of the dwarf varieties; blue seed, dark green pods; large Peas of excellent quality; much superior to the White Tom Thumb.

Ft., —. Qt., —. Peck, —. Bus., —.



NOTT'S EXCELSIOR PEAS.

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

PEAS--Continued SECOND EARLY HALF-DWARF WRINKLED VARIETIES



GARDENER'S FAVORITE.
Stratagem, and in every way superior. **Qt., 30c. Pk., \$2.25. Bus., \$8.00.**
DWARF GREEN WRINKLED MARROW.—An excellent new wrinkled variety. Large pods and very productive. **Qt., —. Pk., —. Bus., —.** Crop failed.

GARDENER'S FAVORITE.—Height, 30 to 36 inches. A wrinkled variety named and introduced by us, and which is constantly gaining friends; of most delicious flavor, prolific bearer, specially suited for the market garden trade. It is also attracting considerable attention with some of our leading canners, as when packed they find the quality to be superior to any other sort. **Pt., 15c. Qt., 30c. Pk., \$2.00. Bus., \$7.00.**

ADVANCER.—Height, 2½ feet. A green wrinkled variety; introduced some years ago, and has always given satisfaction. **Qt., 30c. Pk., \$2.00. Bus., \$7.00.**

EVERBEARING.—Vines are about 2 feet high, of a branching character, forming as many as 10 stalks from a single root stalk. Peas large and of fine quality. **Qt., 30c. Pk., \$2.00. Bus., \$7.00.**

YORKSHIRE HERO.—Height, 2½ feet. A wrinkled variety; productive and of very superior flavor. **Qt., 30c. Pk., \$2.00. Bus., \$7.00.**

SHROPSHIRE HERO.—A grand new second early wrinkled Pea, producing long, handsome, well-filled pods in great abundance. Height, 2½ feet. **Pt., 15c. Qt., 30c. Pk., \$2.00. Bus., \$7.00.**

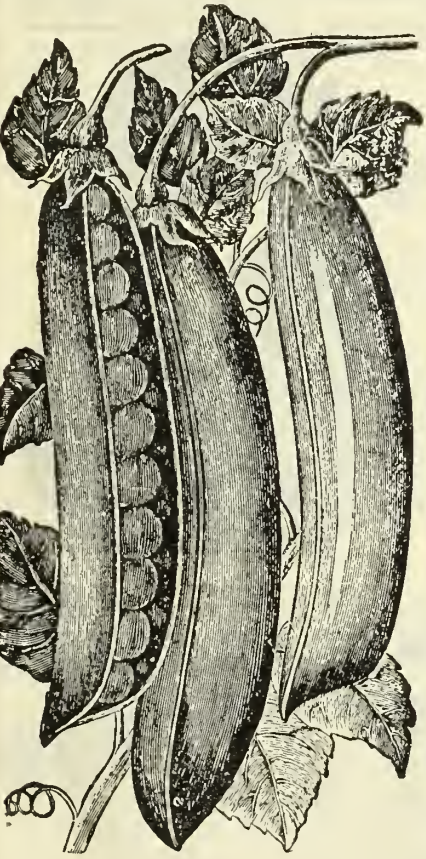
ABUNDANCE.—Height, 30 to 36 inches. An excellent half-dwarf, medium early, wrinkled variety; pods 3½ inches long, containing 6 to 8 large Peas of excellent quality. **Qt., 30c. Pk., \$1.75. Bus., \$7.00.**

PRIDE OF THE MARKET.—A medium early dwarf Pea of vigorous habit and very productive. The pods are large, of a medium green color, and contain 7 to 9 Peas of fine quality; 1½ feet. **Pt., 15c. Qt., 30c. Pk., \$2.00. Bus., \$7.00.**

HORSFORD'S MARKET GARDEN.—Height, 2½ feet. A medium early wrinkled variety; highly recommended. **Qt., 30c. Pk., \$2.00. Bus., \$7.00.**

IMPROVED STRATAGEM.—Height, 2½ feet. A large wrinkled blue Pea of excellent quality; very long, large filled pods. More regular in its growth than the ordinary variety. **Qt., 30c. Pk., \$2.25. Bus., \$8.00.**

Medium and Late Varieties



HEROINE PEAS.

HEROINE PEA.—A medium early, green, wrinkled Pea, and one of the best of recent introduction; large, curved, showy pods; an immense cropper; Peas of finest quality. Height, 2 to 2½ feet. **Pt., 15c. Qt., 30c. Pk., \$2.00. Bus., \$7.00.**

CHAMPION OF ENGLAND.—Height, 4 feet. An old favorite, rich flavored, and very productive. **Pt., 15c. Qt., 30c. Pk., \$2.00. Bus., \$7.00.**

MELTING SUGAR (Edible Pods).—This variety is ahead of all other Sugar Peas, not only in size of pod and prolific bearing, but also for its delicious flavor. It grows to the height of 5 feet, bears a profusion of very large, broad handsome light green pods, which are so brittle that they snap without any strings. **Pt., 15c. Qt., 30c. Pk., \$2.25.**

TALL GRAY SUGAR (Edible Pods).—Cooked in the pods same as Snap Beans. **Pt., 20c. Qt., 40c.**

DWARF GRAY SUGAR (Edible Pods).—Quite a favorite. **Pt., 20c. Qt., 40c. Pk., —.**

TELEPHONE.—Height, 3 to 4 feet. Large wrinkled seeds; pods large and well filled. **Pt., 15c. Qt., 30c. Pk., \$2.25. Bus., \$8.00.**

TELEGRAPH, or LONG ISLAND MAMMOTH.—Resembles the Telephone in every respect, except they are a deeper shade of green. Pods are very attractive in appearance. **Pt., 15c. Qt., 30c. Pk., \$2.25. Bus., \$8.00.**

IMPROVED SUGAR MARROWFAT PEAS (Genuine Stock).—Height, 3½ feet. Grows a strong vine, bears in abundance large, filled pods. The truckers' favorite. **Pt., 15c. Qt., 30c. Pk., \$1.50. Bus., \$6.00.**

ADMIRAL DEWEY.—Here we have a most excellent Pea, with large, handsome pods; Peas of the highest quality. More dwarf than the Stratagem, and about a week earlier in maturing, regular and uniform in growth; vines stocky, healthy and of vigorous growth; pods long, frequently containing 10 peas, of tender and delicious flavor. Don't fail to try it. **Pt., 15c. Qt., 30c. Pk., \$2.25. Bus., \$8.00.**

FRENCH CANNER.—Height, 3½ feet. The celebrated Pea used in France by the canners. It is wonderfully prolific, bearing an abundance of long pods, containing 7 to 9 peas of excellent flavor. **Pt., 15c. Qt., 30c. Pk., \$1.50. Bus., \$5.50.**



HERBS

—Sow in spring in shallow drills, one foot apart, and when well up thin out or transplant to a proper distance.

	Pkts.	Oz.	¼ lb.	Lb.		Pkts.	Oz.	¼ lb.	Lb.
MARJORAM	5c.	15c.	40c.	\$1.25	CORIANDER	5c.	10c.	25c.	\$1.00
ANISE	5c.	10c.	25c.	.....	DILL	5c.	10c.	25c.	.70
BASIL	5c.,	10c.	.....	.....	LAVERANDER	5c.	15c.	40c.	1.25
BENE, use medicinally	5c.	15c.	.....	.....	FENNEL (Sweet)	5c.	10c.	25c.	.....
BORAGE, excellent for bees	5c.	15c.	40c.	1.25	ROSEMARY, an aromatic herb	5c.	35c.	50c.	1.75
CARAWAY	5c.	10c.	25c.	.....	SAGE (American)	5c.,	10c.	25c.	40c.
CHEVIL	5c.	25c.	.....	.....	SUMMER SAVORY	5c.	10c.	40c.	1.25
CHICKORY	5c.	10c.	25c.	1.00	THYME (broad-leaved English)	5c.,	10c.	25c.	75c.

PEPPER or CAPSICUM



Is cultivated mainly for pickles; used as a seasoning in many ways; sometimes medicinally. Sow seed early in hotbed, if possible; if not, select a warm place in the garden for seed bed; sow as soon as the soil is warm. Transplant when 3 or 4 inches high, in rows 18 inches apart.

Large Bell or Bull Nose Plant vigorous, compact, very productive, ripening its crop uniformly and early. Fruit large, with thick, mild flesh, of excellent quality for use in salads and pickles; color bright red when ripe. **Pkt., 5c. Oz., 20c. ¼ lb., 60c. Lb., \$2.00.**

Ruby King An improved American variety often four to six inches in length and quite symmetrical in shape. It is very bright colored and the flesh is sweet and mild flavored. **Pkts., 5c. and 10c. Oz., 20c. ¼ lb., 60c. Lb., \$2.**

Sweet Mountain Plants very vigorous, of compact, upright growth. The fruit does not ripen until very late. It is very large and long, often eight inches or more in length by two in diameter; very smooth and handsome, being when fully mature of a rich red color. Flesh very thick, sweet and mildly flavored. **Pkts., 5c. and 10c. Oz., 20c. ¼ lb., 60c. Lb., \$2.00.**

Chinese Giant Double the size of Ruby King; the finest mild Red Pepper grown. It is very productive, having a magnificent appearance, which makes it sell readily. **Pkt., 10c. Oz., 25c. ¼ lb., \$1.00.**

Long Red Cayenne A well known variety, having a slender, twisted and pointed pod about four inches long, and when ripe, bright red in color. Extremely strong and pungent flesh. **Pkts., 5c. and 10c. Oz., 20c. ¼ lb., 60c.**

Red Cherry Plant tall, bearing a profusion of round, bright red fruit which are very pungent when ripe. The plant, when in fruit, is very ornamental. **Pkts., 5c. and 10c. Oz., 25c.**

Red Chili Used in the manufacture of pepper sauce. The bright, rich red pods are about two inches long, one-third to one-half inch in diameter at the base, tapering to a sharp point and exceedingly pungent when ripe. **Pkts., 5c. and 10c. Oz., 25c.**

PUMPKIN

Plant in May, in hills 8 feet apart. Allot 10 seed to each hill, as bugs often destroy the young plants, but only allow 2 or 3 healthy plants to remain in each hill. They are usually planted in fields with corn or potatoes.

G. & T. CO.'S MARYLAND SWEET POTATO.

This is the best table Pumpkin in cultivation. In shape and size it somewhat resembles the Cashaw, but much more beautiful in color, being a handsome green and white striped. The flesh is a rich yellow color, solid, fine grained, very thick; flavor delicious. **Pkt., 5c. Oz., 15c. ¼ lb., 20c. Lb., 70c.**

LARGE CHEESE.—Skin reddish orange, flesh thick, fine and sweet. **Pkt., 5c. Oz., 10c. ¼ lb., 15c. Lb., 40c.**

TENNESSEE SWEET POTATO.—A splendid pie and cooking pumpkin. They grow pear-shaped, of medium size, slightly ribbed; skin is creamy white, lightly striped with green; flesh very thick, creamy white, dry and fine-grained, keeping well until late in the spring. When cooked resembles sweet potatoes, but much more delicious in taste.

Pkt., 5c. Oz., 10c. ¼ lb., 15c. Lb., 50c.

CONNECTICUT FIELD.—Very productive and grown for feeding stock. It is so well known that it does not need description.

Pint, 15c. Quart, 20c. Lb., 25c.

YELLOW CASHAW, OR CROOKNECK.—Solid flesh, fine and sweet; keeps well.

Pkt., 5c. Oz., 10c. ¼ lb., 15c. Lb., 50c.



G. & T. CO.'S
MARYLAND SWEET POTATO.

SALSIFY or Vegetable Oyster

Sow in early spring in light, rich soil in drills 14 inches apart and thin the plants to six inches in the row. The roots will be ready for use in October and will sustain no injury by being left in the ground during the winter.

SANDWICH ISLAND MAMMOTH.—This new Salsify grows fully twice the size of the old sort, and is superior in quality. Invaluable to market gardeners. **Pkt., 5c. Oz., 10c. ¼ lb., 40c. Lb., \$1.25.**

LARGE WHITE.—The old well-known variety. **Pkts., 5c. and 10c. ¼ lb., 40c. Lb., \$1.00.**

VEGETABLE ROOTS ASPARAGUS ROOTS

A saving of one to two years is effected by planting roots. A bed 12x40 feet, requiring about 100 roots, should give a sufficient supply for an ordinary family; 7260 roots will plant an acre. Select good, loamy soil, plow deep, put in good quantity of manure and 100 pounds of kainit to 1000 square feet of bed. Incorporate thoroughly; make a trench 8 inches deep, set plants 9 inches apart. In field culture rows are placed 4 feet apart.

Barr's Mammoth.—Per 100, 75c. Per 1000, \$5.50.

Palmetto.—Per 100, 70c. Per 1000, \$5.00.

Colossal.—Per 100, 70c. Per 1000, \$5.00.

Mammoth White.—Per 100, 75c. Per 1000, \$5.50.

ARTICHOKES

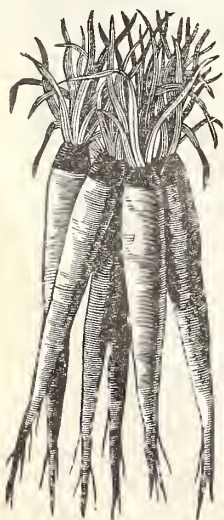
Jerusalem.—Pk., 75c. Bus., \$2.50. For further information see page 1.

HORSE RADISH ROOTS

Doz., 20c. Per 100, 75c. Per 1000, \$6.00.

RHUBARB ROOTS

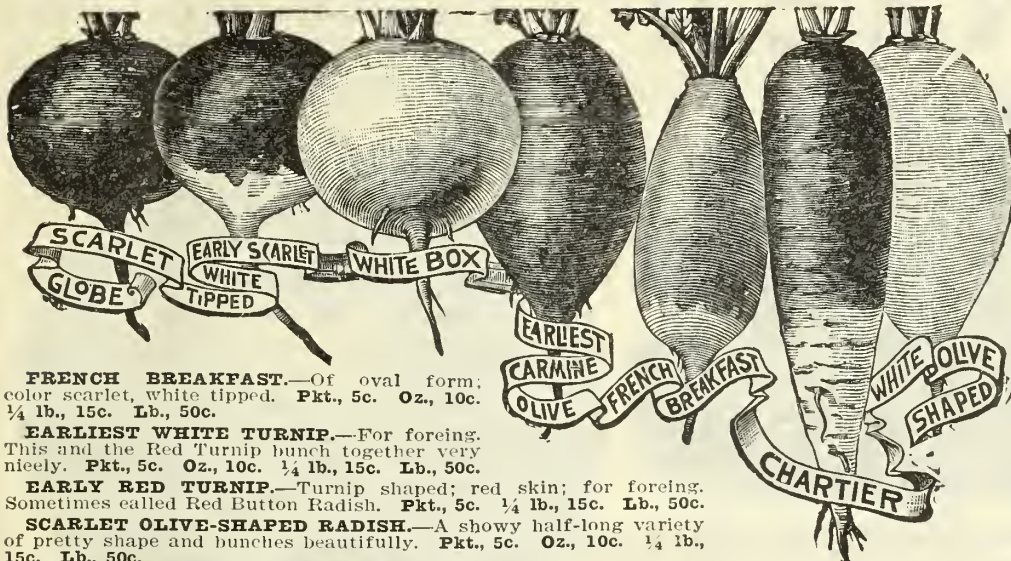
15c. each. Doz., \$1.50.



RADISH

**ONE OUNCE
WILL SOW
100 FEET
OF DRILL**

For an early supply sow in hotbed in February. For a successive supply sow from middle of March to September. Radishes thrive best in light, rich, sandy loam. The radish must make a rapid growth to be fit for use; it will then be crisp and tender and of a mild flavor. If it grows slowly, it will be hard, fibrous and disagreeably pungent.



FRENCH BREAKFAST.—Of oval form; color scarlet, white tipped. Pkt., 5c. Oz., 10c. ¼ lb., 15c. Lb., 50c.

EARLIEST WHITE TURNIP.—For foreing. This and the Red Turnip bunch together very nicely. Pkt., 5c. Oz., 10c. ¼ lb., 15c. Lb., 50c.

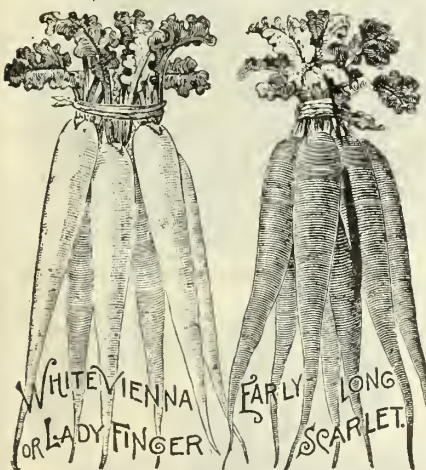
EARLY RED TURNIP.—Turnip shaped; red skin; for foreing. Sometimes called Red Button Radish. Pkt., 5c. ¼ lb., 15c. Lb., 50c.

SCARLET OLIVE-SHAPED RADISH.—A showy half-long variety of pretty shape and bunches beautifully. Pkt., 5c. Oz., 10c. ¼ lb., 15c. Lb., 50c.

WHITE BOX.—Perfectly round, smooth skin, pure white, free from any sharpness or bitterness. A remarkably quick grower, with small top. For foreing, it is in every way superior. Pkt., 5c. Oz., 10c. ¼ lb., 20c. Lb., 50c.

EARLY WHITE TIPPED SCARLET.—An excellent variety for foreing, with very short leaves; bright scarlet in color, with a white tip. Pkt., 5c. Oz., 10c. ¼ lb., 15c. Lb., 40c. 5 lbs., \$2.00.

EARLY SCARLET, OR PRUSSIAN GLOBE RADISH.—This is the very best foreing variety; is sown largely by market gardeners and truckers, and they are delighted with it. It is of a globular shape and brilliant, beautiful crimson color, short top, and will stand a large amount of heat without becoming pithy. Pkt., 5c. Oz., 10c. ¼ lb., 15c. Lb., 50c.

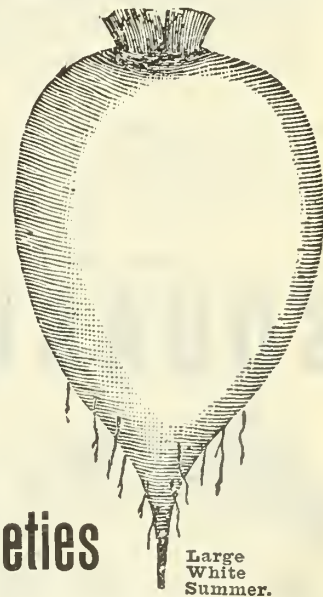


Long Varieties

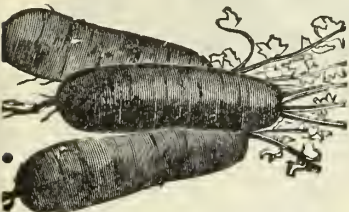
CINCINNATI MARKET NEW GLASS RADISH. Pkt., 5c. Oz., 10c. ¼ lb., 15c. Lb., 45c. 5 lbs., 40c. lb.

WHITE VIENNA, OR LADY FINGER.—This is unquestionably the finest long white Radish. Of most handsome shape, color a beautiful snow white. It is of very rapid growth, and remarkably crisp, brittle and tender; equally desirable for the market or home garden. Pkt., 5c. Oz., 10c. ¼ lb., 15c. Lb., 40c.

LONG SCARLET (Finest Grown).—Very attractive and sells readily. Owing to its handsome shape, brilliant color and fine qualities, it commands a higher price and more ready sale than the ordinary Long Scarlet as generally sold. Pkt., 5c. Oz., 10c. ¼ lb., 15c. Lb., 50c. 5 lbs., \$2.00.



Large White Summer.



Winter Varieties

Summer Varieties

CHINESE ROSE WINTER.—Remarkably fine for winter use. The best of the winter sorts. Pkt., 5c. Oz., 10c. ¼ lb., 15c. Lb., 40c.

WHITE CHINESE WINTER, OR CELESTIAL.—An excellent white winter Radish; a good keeper. Pkt., 5c. Oz., 10c. ¼ lb., 20c. Lb., 60c.

LONG BLACK SPANISH.—A large winter variety; one of the hardest, with dark green leaves, firm in texture, keeping until spring. Pkt., 5c. Oz., 10c. ¼ lb., 20c. Lb., 50c.

LONG WHITE SPANISH (Winter).—Fine keeping quality. Pkt., 5c. Oz., 10c. ¼ lb., 20c. Lb., 50c.

ROUND WHITE SPANISH.—A good fall or winter variety. Pkt., 5c. Oz., 10c. ¼ lb., 20c. Lb., 50c.

ROUND BLACK SPANISH.—A fine globe-shaped Radish; very popular with the Germans, known as Rettig; good quality. Pkt., 5c. Oz., 10c. ¼ lb., 20c. Lb., 50c.

LARGE WHITE SUMMER, The Great Summer Radish.—This is the most popular white Radish for summer use with the gardeners around Baltimore, because of its handsome appearance and ready sale, and its well-known quality of being slow to run to seed. Pkt., 5c. Oz., 10c. ¼ lb., 15c. Lb., 40c. 5 lbs., \$1.75.

WHITE STRASBURG.—This is becoming one of the most popular summer sorts; it is of handsome tapering shape, skin pure white; very tender. Pkt., 5c. Oz., 10c. ¼ lb., 15c. Lb., 40c.

GIANT STUTTGART.—A splendid new variety, of excellent quality; withstands summer heat. Pkt., 5c. Oz., 10c. ¼ lb., 15c. Lb., 50c.

CHARTIER.—A good variety for private or market garden purposes. Stands long before going to seed, and is tender and crisp. Pkt., 5c. Oz., 10c. ¼ lb., 15c. Lb., 50c.

DELICACY.—Resembles White Strasburg, being more evenly shaped and hollow topped; grows into full size and perfection during the hottest months. Pkt., 5c. Oz., 10c. ¼ lb., 15c. Lb., 50c.

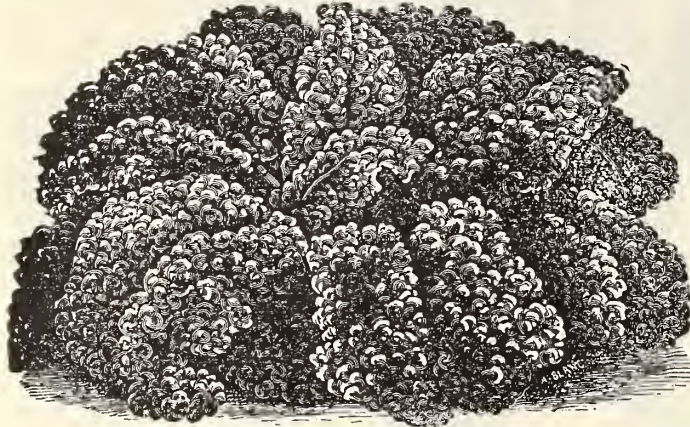
GOLDEN GLOBE.—An excellent summer Radish; slow to run to seed; shape globular, bright yellow color and mild flavor. Pkt., 5c. Oz., 10c. ¼ lb., 20c. Lb., 50c.

Rhubarb or Pie Plant

SOW in April in drills one inch deep and one foot apart. When plants are large enough, thin to ten inches apart, and cultivate. In the fall or following spring transplant into deep, rich soil three feet apart each way.
Pkts., 5c. and 10c. Oz., 15c. ¼ lb., 40c. Lb., \$1.25.

SPINACH

All Prices of Seeds in This Catalogue Are
Subject to Change Without Notice



THIS is quite an important crop with market gardeners, and one easily managed.

For summer use, sow early in spring, in drills eight inches to one foot apart, covering the seed one inch deep. Select rich soil and manure liberally. A succession may be obtained by sowing at intervals of two weeks through the season. For very early spring use sow in August, and protect the plants through the winter by a thick covering of clean straw or some similar light covering. Spinach is used principally as greens for boiling, and is very highly esteemed for this purpose.

LARGE ROUND-LEAVED VIROFLAY.—A new sort, with very large, thick leaves.
Pkt., 5c. ¼ lb., 10c. Lb., 20c.

LONG STANDING.—Best for spring sowing, as it is very slow to seed. The leaves are large, round, unusually thick, curled and of dark green color.
Pkt., 5c. ¼ lb., 10c. Lb., 20c.

CURLED SAVOY, or BLOOMSDALE.—The leaves are fine, curled, large, thick and heavy, and are produced in great numbers.
Pkt., 5c. ¼ lb., 10c. Lb., 20c.

G. & T. CO.'S EXTRA CURLED AMERICAN GROWN SAVOY SPINACH.—This is grown especially for us, and is without exception the best type of Savoy Spinach in existence. It is beautifully curled and wrinkled, the leaves large, thick and heavy, produced in great numbers, and stands handling and transportation better than any other sort; in fact, we hardly think we could say too much about this valuable acquisition to the spinach family. Sold only in sealed bags. **Pkt., 5c. ¼ lb., 15c. Lb., 30c.**

VICTORIA SPINACH.—This new spinach comes to us with the highest recommendations from the growers. The foliage is heavy, the broad, dark green leaves being of the true Savoy appearance and of the finest quality; but the most remarkable feature that will make it of special value, both for market and family gardens, is the fact that it is in prime condition from two weeks to three weeks after all other varieties of spinach have run to seed.

Pkt., 5c. ¼ lb., 10c. Lb., 20c.

WRITE FOR SPECIAL PRICES IN QUANTITIES.



SQUASH

THE Squashes are all quite tender, and therefore no progress can be made in starting them until the weather becomes somewhat warm and settled. Plant in hills five feet apart each way for the bush varieties, and eight feet for the running varieties; put eight seeds to the hill, but don't allow over three to stand.

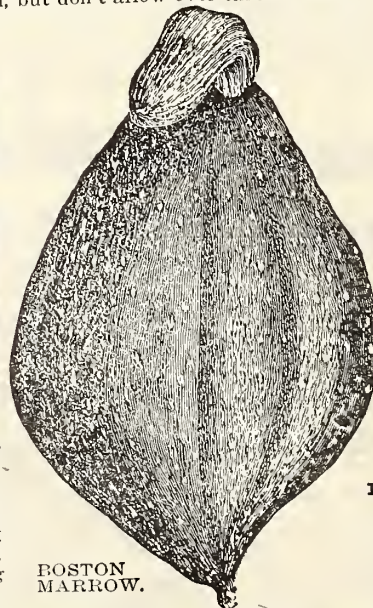


EARLY WHITE BUSH SCALLOP.—A desirable and marketable sort. Best known and most productive of all the summer sorts.

Pkt., 5c. Oz., 10c. ¼ lb., 15c. Lb., 50c.

EARLY YELLOW BUSH SCALLOP.—An early, flat, scallop-shaped variety; color yellow, flesh pale yellow and well flavored; very productive; used when young and tender.

Pkt., 5c. Oz., 10c. ¼ lb., 15c. Lb., 50c.



BOSTON
MALLOW.



SUMMER CROOK NECK (Early).—Fine flavor; a desirable table sort. **Pkt., 5c. Oz., 10c. ¼ lb., 15c. Lb., 50c.**

WINTER CROOK NECK.—Flesh red, fine flavor; largely grown for winter use. **Pkt., 5c. Oz., 10c. ¼ lb., 15c. Lb., 50c.**

HUBBARD.—Fine and desirable for winter use. **Pkt., 5c. Oz., 15c. ¼ lb., 25c. Lb., 85c.**

BOSTON MARROW.—A fall and winter variety, very popular in the Boston market. Of oval form, skin thin; when ripe, bright orange mottled with light cream color; flesh rich salmon yellow, fine grained, and for sweetness and excellence unsurpassed, but not as dry as the Hubbard. Fine for pies or baking.

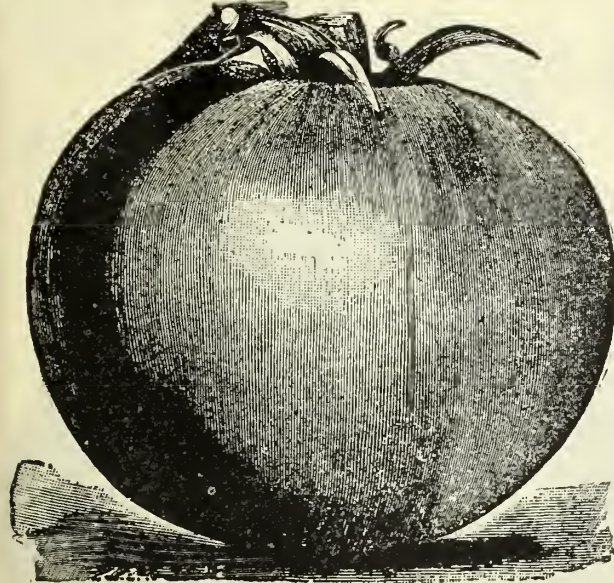
Pkt., 5c. Oz., 10c. ¼ lb., 15c. Lb., 50c.

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

TOMATO

For early fruit sow the seed in March or April, in the hotbed or in pots in a sunny exposure in the house. When the plants are about three or four inches high they should be set out four or five inches apart in another hotbed or cold frame or removed into small pots, allowing a single plant to a pot. Expose to the air as much as possible to harden, and about the middle of May set the plants in the open ground at a distance of four or five feet each way. Water freely at the time of transplanting, and shelter from the sun for a few days until

the plants are established. Sufficient plants for a small garden may be had by sowing a few seeds in a shallow box or flower pot and placing in a sunny window in the house. Cultivate thoroughly as long as the vines will permit. Tomatoes will admit of training to stakes or trellis of various kinds, and the fruit is very much improved both in appearance and quality. This mode of cultivation is now quite common among gardeners who grow for early market. The usual method is to set one strong plant to a stake, using stakes five to seven feet in height, tying the plant up with wool or other strong, soft twine, pruning out quite freely as the vines advance in growth. By adopting this method the plants may be set much closer than in the ordinary way.



BONNY BEST.

Extra Early Red Varieties

BONNY BEST EARLY TOMATO—New

As its name signifies, it is the best extra early tomato yet introduced. Is fully ten days earlier than Chalk's Early Jewel, and within a day or two, if not quite as early as Sparks' Earliana. Truckers who tested it claim it is as early as Earliana.

It is a vigorous grower, very prolific, with dense foliage, which protects the fruits from hot sun when other varieties like the Earliana have scalded fruits. The fruit is even size, smooth, round, red, of delicious flavor, ripening to stem.

It does not have the green surface like the Earliana and other extra early varieties. Pkts., 5c. and 10c. Oz., 35c. ¼ lb., \$1.25. Lb., \$4.00.



SPARKS' EARLIANA.—The earliest bright red Tomato; very large, smooth color, bright red; solid and excellent for slicing. The plants are of moderate growth, well set with fruits, nearly all of which ripen extremely early in the season. Grows in clusters; of medium size; smooth, solid, solid center, small seed cells, slightly acid.

Pkts., 5c. and 10c. Oz., 25c. ¼ lb., 60c. Lb., \$2.00.

ATLANTIC PRIZE (Select Stock).—An excellent extra early red Tomato, and while it does not run as regularly smooth as the Paragon, it ripens very evenly.

Pkts., 5c. and 10c. Oz., 20c. ¼ lb., 40c. Lb., \$1.50.

FIEDLER'S EARLY CROPPER TOMATO—New

The Newest Thing Yet Introduced. Born in Baltimore and Will Be Raised Everywhere.

This grand new variety came to our notice some years ago, and we have been watching it closely for several years to find out its merits before putting on the market.

From observation we consider it the best extra early tomato ever. Enormously productive, fine flavor, red in color, large fruit, extra early, heavy foliage; in fact, everything a gardener or trucker should desire in an ideal tomato.

We have persuaded Mr. Fiedler, the originator, to let us have a small amount of seed for the coming season, which we will put out in packages only. Next year we hope to have a larger supply.

Price: Pkt., 50c. 1 oz., \$1.50.

EXTRA EARLY RUBY

This new variety came to our notice last season, and after giving it a thorough test we consider it the best all-round early Tomato in existence. While not as early as the Sparks' Earliana by a week or ten days, it is far superior in quality, size, shape, flavor and productiveness. In color, ruby red, nearly globe-shaped; solid flesh throughout, and with very few seeds and free from acidity; it makes a splendid main crop variety; a great keeper and shipper.

Pkt., 10c. Oz., 3c. ¼ lb., \$1.25. Lb., \$4.00.

CHALK'S EARLY JEWEL.—Deep-fruited and solid. The growth is very compact. Fruit of uniformly good size; very solid; brightest scarlet, ripening up to the stem without cracks or green core; sweet flavor.

Pkts., 5c. and 10c. Oz., 25c. ¼ lb., 60c. Lb., \$2.00.

MAULE'S EARLIEST.—New; very fine; extra early; very prolific; fruits large size; excellent for shipping.

Pkts., 5c. and 10c. Oz., 25c. ¼ lb., 75c.

NEW SUCCESS.—A magnificent new scarlet fruited Tomato of finest quality, handsome appearance, large size and great productiveness. The vines are of strong, vigorous growth, with abundant foliage; fruit set in clusters; color brightest scarlet; perfectly smooth and free from cracks; the interior is very meaty, of fine flavor. It ripens with the second earlies and yields abundantly throughout the season.

Pkts., 5c. and 10c. Oz., 20c. ¼ lb., 50c. Lb., \$1.75.

EXTRA EARLY PURPLE VARIETIES

BEAUTY.—For early market and shipping this cannot be excelled, because of its solidity and toughness of skin. Color is a rich, glossy crimson, with a slight tinge of purple. It is well known and very largely used by our gardeners.

Pkts., 5c. and 10c. Oz., 20c. ¼ lb., 40c. Lb., \$1.50.

DWARF CHAMPION.—Dwarf, upright growth; smooth purple fruit.

Pkts., 5c. and 10c. Oz., 20c. ¼ lb., 60c. Lb., \$2.25.

PRIZETAKER.—Early; large; handsome; deep crimson; slight tinge of purple.

Pkts., 5c. and 10c. Oz., 15c. ¼ lb., 40c. Lb., \$1.25.

MEDIUM EARLY VARIETIES

PRIZEWINNER.—Purple; early; prince of market Tomatoes; color resembles Beauty, but larger; solid; one of the best keepers and shippers; smooth; well adapted for late crop.

Pkt., 10c. Oz., 20c. ¼ lb., 60c. Lb., \$1.75.

PONDEROSA.—Remarkable for size; fruits heavy; deep red; flesh thick, solid and fine quality.

Pkt., 10c. Oz., 30c. ¼ lb., \$1.00.

ACME.—Purple; early; medium; pink-purplish; slightly oval.

Pkts., 5c. and 10c. Oz., 20c. ¼ lb., 50c. Lb., \$1.50.

CRIMSON CUSHION.—Resembles Ponderosa in shape and size; color deep red. Pkt., 10c. Oz., 35c. ¼ lb., 75c.

BUCKEYE STATE.—Purple; productive, but not very solid; large, smooth.

Pkts., 5c. and 10c. Oz., 20c. ¼ lb., 50c. Lb., \$1.75.

LORILLARD.—Best for greenhouse forcing; bright, glossy red; very smooth. Pkt., 10c.

SMALL FRUITED VARIETIES

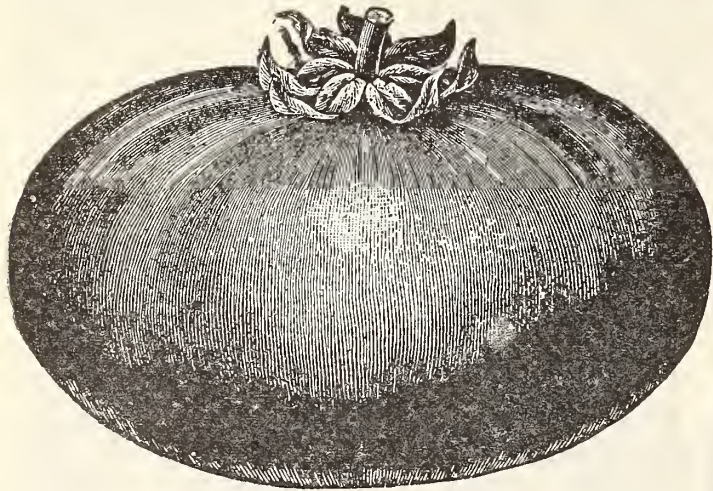
PEAR-SHAPED RED.—Pkts., 5c. and 10c. Oz., 25c. ¼ lb., 75c.

PEAR-SHAPED YELLOW.—Used for preserves and pickles.

Pkts., 5c. and 10c. Oz., 25c. ¼ lb., 75c.

YELLOW PLUM.—Color bright yellow; excellent for preserving. Pkt., 5c. Oz., 25c. ¼ lb., 75c.

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.



World's Fair

MATCHLESS.—The color is rich red. The skin is so tough that it makes a splendid keeper and shipper, and is less liable to crack in wet weather than any other large Tomato. Unsurpassed for market or table; strong grower and very productive, bearing with undiminished vigor until frost. The fruit is free from core and the seed spaces comparatively small.

Pkts., 5c. and 10c. Oz., 20c. $\frac{1}{4}$ lb., 50c. Lb., \$1.75.

BRINTON'S BEST.—One of the leading sorts for second early and late use; the fruit is large, handsome and a splendid keeper. A great favorite with canners and truckers.

Pkts., 5c. and 10c. Oz., 20c. $\frac{1}{4}$ lb., 50c. Lb., \$1.50.

KELLY RED TOMATO.—This splendid Red Tomato originated in Anne Arundel County, Md., and through its superior qualities it has become the Tomato most largely used in that section. It is large, meaty, an abundant yielder, and withstands unfavorable conditions remarkably well.

Pkts., 5c. and 10c. $\frac{1}{2}$ Oz., 15c. Oz., 25c. $\frac{1}{4}$ lb., 75c. Lb., \$2.50.



THE NEW STONE TOMATO.—Ripens for main crop; is very large and of bright scarlet color; very smooth, with occasionally a specimen very slightly octagon-shaped, ripening evenly to the stem without a crack; exceedingly solid and firm-fleshed (as its name indicates). It is an excellent shipper; fine for canning; a good keeper; not subject to rot.

Pkts., 5c. and 10c. Oz., 20c. $\frac{1}{4}$ lb., 50c. Lb., \$1.50.

TOMATO

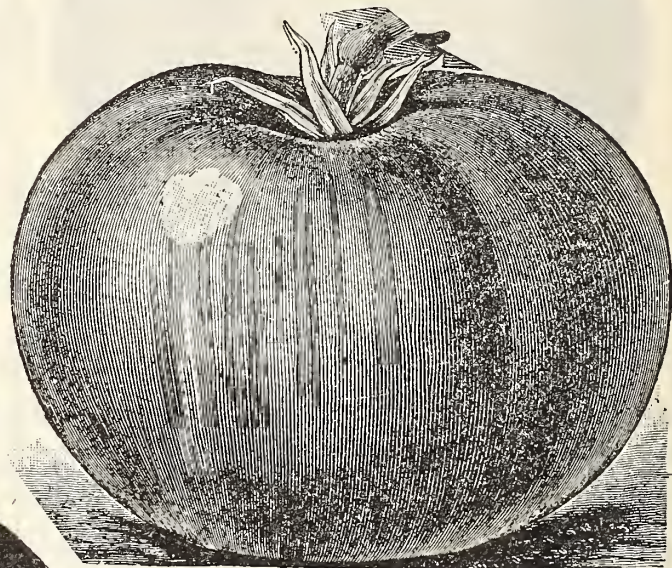
Main Crop Varieties

Griffith & Turner Co's. World's Fair

The great canner. The six great points of this great canner—solidity, symmetry, handsome, bright red, ripens uniform, free from rot. Its shipping and keeping qualities are unexcelled.

The planters now demand this great Tomato, notwithstanding the fact that there are many much newer varieties. Yet it has been so successful that it is preferred above all others. The fruit is particularly solid and of fine flavor, good size, smooth, and certainly very attractive.

Pkts., 5c. and 10c. Oz., 20c. $\frac{1}{4}$ lb., 50c. Lb., \$1.75.



RED ROCK. One of the finest for canning, being extraordinarily solid, smooth and red. No other variety has any better qualities than the Red Rock. Of fine flavor, very meaty and wonderfully free from acid. A heavy producer and good shipper. We think it is the coming Tomato for main crop and canners' use.

Pkts., 5c. and 10c. Oz., 35c. $\frac{1}{4}$ lb., \$1.25. Lb., \$4.00.

EARLY I. K. L. TOMATO.—Earliest, largest, most prolific. Pkt., 10c. $\frac{1}{2}$ oz., 15c. Oz., 25c. 2 oz., 40c. $\frac{1}{4}$ lb., 60c. $\frac{1}{2}$ lb., \$1.00. Lb., \$2.00.

"GREATER BALTIMORE" TOMATO.—Makes a fine crop. Pkts., 10c. $\frac{1}{2}$ oz., 15c. Oz., 25c. 2 oz., 40c. $\frac{1}{4}$ lb., 60c. Lb., \$2.00.

LIVINGSTON'S FAVORITE.—Bright red, smooth Tomato of good size.

Pkts., 5c. and 10c. Oz., 20c. $\frac{1}{4}$ lb., 50c. Lb., \$1.50.

PARAGON.—Well-known standard bright red Tomato.

Pkts., 5c. and 10c. Oz., 20c. $\frac{1}{4}$ lb., 35c. Lb., \$1.25.

ROYAL RED.—New; resembles Favorite in form and color; good main crop variety.

Pkts., 5c. and 10c. Oz., 20c. $\frac{1}{4}$ lb., 50c. Lb., \$1.50.

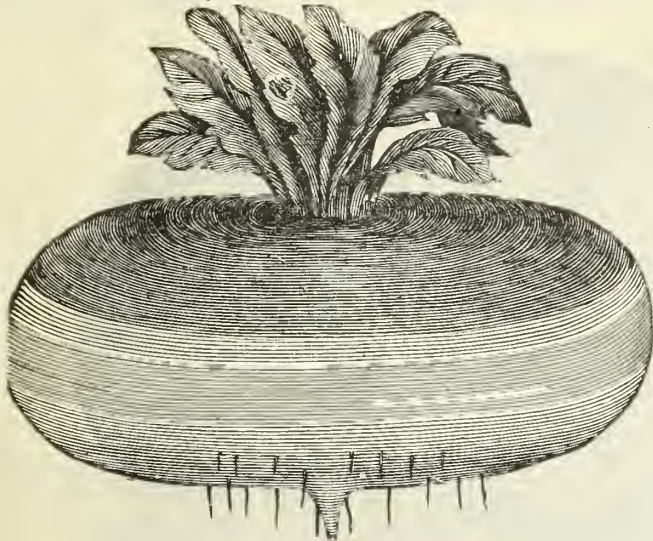
NEW QUEEN TOMATOES.—Fruit somewhat resembles Paragon in appearance. This sort is well known and a favorite among canners, but it is not as deep red in color nor as weighty and solid as our World's Fair.

Pkts., 5c. and 10c. Oz., 15c. $\frac{1}{4}$ lb., 35c. Lb., \$1.25.

TURNIP

For early use, sow the small sorts as soon as the ground can be worked in the spring, in drills 14 inches apart, the Rutabagas 30 inches. As the seed is very fine, it should be covered but slightly,

excepting in very dry weather. Select light, and, if possible, new soil and manure with plaster and ashes or phosphates. Should the young plants be troubled with insects, a sprinkling of slug shot will be beneficial. For fall and winter use the early kinds should be sown, from the middle of July to the middle of August, and the Rutabagas from the middle of June to the first of July, using from one to one and a half pounds of seed to the acre.



WHITE AND PURPLE TOP STRAP-LEAF.

EARLY RED TOP FLAT.—Fine, sweet, mild; rapid grower; very early and popular.

Pkt., 5c. $\frac{1}{4}$ lb., 10c. $\frac{1}{2}$ lb., 15c. Lb., 30c.

EXTRA EARLY PURPLE TOP MILAN.—The earliest and handsomest Flat Turnip in cultivation; none equal to it for spring sowing.

Pkt., 5c. Oz., 10c. $\frac{1}{4}$ lb., 15c. $\frac{1}{2}$ lb., 25c. Lb., 50c.

WHITE FLAT (Strap Leaf).—Differs from Red Top only in color.

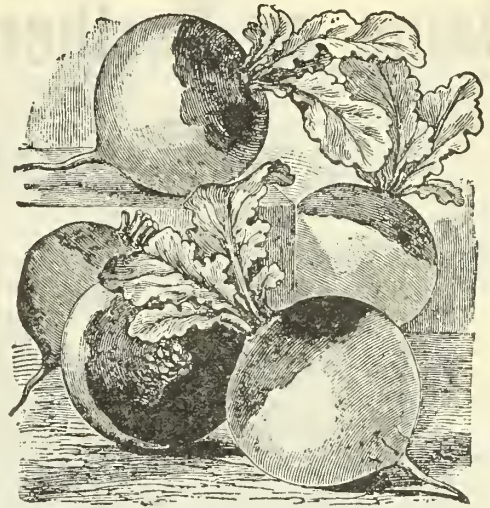
Pkt., 5c. $\frac{1}{4}$ lb., 10c. $\frac{1}{2}$ lb., 15c. Lb., 30c.

EARLY WHITE EGG.—A new variety of rapid growth; egg-shaped and white, as its name indicates.

Pkt., 5c. Oz., 10c. $\frac{1}{4}$ lb., 15c. $\frac{1}{2}$ lb., 25c. Lb., 50c.

COW HORN (Large Croppers).—This variety is pure white, excepting a dash of green at the crown, and in shape is long, like the carrot.

Oz., 5c. $\frac{1}{4}$ lb., 15c. $\frac{1}{2}$ lb., 20c. Lb., 40c.



RED TOP WHITE GLOBE.

LARGE EARLY RED TOP GLOBE.—A variety of recent introduction. Of large size, rapid growth, unusually attractive. Approved and admired by all who have seen it. A very much heavier producer than either of the Flat varieties and quite as early as the Flat Red Top. Very few market gardeners will have any other kind. Pkt., 5c. $\frac{1}{4}$ lb., 10c. $\frac{1}{2}$ lb., 15c. Lb., 30c.

YELLOW ABERDEEN, or SCOTCH YELLOW.—This is a highly approved Cattle Turnip, attaining a large size. It is solid, nutritious, a good keeper, and in every respect reliable.

Pkt., 5c. $\frac{1}{4}$ lb., 10c. $\frac{1}{2}$ lb., 15c. Lb., 30c.

LARGE AMBER, or YELLOW GLOBE.—Grows to a large size; flesh yellow, firm and fine-grained. Excellent for either table use or feeding stock.

Pkt., 5c. $\frac{1}{4}$ lb., 10c. $\frac{1}{2}$ lb., 15c. Lb., 30c.

SEVEN TOP.—For greens and salads. Used largely in the Southern States.

Pkt., 5c. $\frac{1}{4}$ lb., 10c. $\frac{1}{2}$ lb., 15c. Lb., 30c.

SOUTHERN PRIZE.—True strain of the favorite Turnip for greens in Virginia and the Carolinas. Valued also for its bulk.

Oz., 5c. $\frac{1}{4}$ lb., 15c. Lb., 30c.

RUTABAGAS OR SWEDES

The Swede Turnips, or Rutabagas, grow much larger in size, and are of greater value for stock feeding than ordinary turnips. Every farmer and stock-raiser should grow Rutabagas and Stock Beets for winter feeding.

GRIFFITH & TURNER CO.'S IMPROVED PURPLE TOP.

Yellow-fleshed. A standard field variety for stock and fine for family use. This splendid Swede is the hardiest, most productive and most nutritious variety in cultivation.

Pkt., 5c. $\frac{1}{4}$ lb., 10c. Lb., 30c.

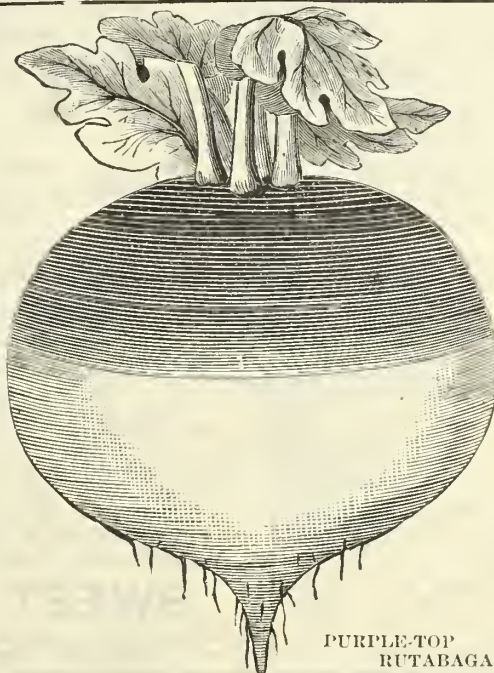
PURPLE TOP RUTABAGAS.—An old standard sort of good quality.

Pkt., 5c. $\frac{1}{4}$ lb., 10c. $\frac{1}{2}$ lb., 15c.
Lb., 25c.

G. & T. CO.'S WHITE ROCK.

Though sometimes called a turnip, this is more like a rutabaga. The root is large, both skin and flesh very white, and is one of the best varieties we have for table use. An excellent keeper and a desirable sort for market gardeners.

Pkt., 5c. $\frac{1}{4}$ lb., 10c. $\frac{1}{2}$ lb., 20c.
Lb. 40c.



PURPLE-TOP
RUTABAGA.

Second Crop Southern Grown Seed Potatoes

Are the product of the Maine-grown stock put on cold storage in April and kept until July or August and planted in the South for a late seed crop and the result from that planting stored away in the fall for next season's use.

The advantage derived from second seed over first crop is that they do not sprout or shrivel, or lose any of their vigor through the winter, having been checked by frost before maturity; they lie dormant, ready to grow vigorously when planted. They rarely send up more than one sprout; this may divide into several branches. The consequence is that all the growth goes into the tubers, which grow to full marketable size 12 to 15 days earlier than ordinary seed.

CROWN JEWEL.—This is a seedling of the Early Ohio. Skin white, with a flesh tint; meat white and floury, cooking evenly through. A very early bearer, and its keeping qualities are equal to the best. Ask for prices.

IRISH COBBLER (New) are great for the trucker. A splendid early sort: fine, white and prolific, producing large crops of handsome, smooth tubers. Ask for prices.

Potato prices are subject to change without notice. Special prices quoted on application. Owing to the high price of barrels we are shipping potatoes in barrel sacks.

Maine or Northern Grown Seed Potatoes

The soil best suited to the Potato is a rich, sandy loam; but it seems to thrive in almost any soil or climate. The Potato being a gross feeder requires a liberal application of manure. If stable manure is to be used it should be well-rotted, and not allowed to come in contact with the tubers. On no other crop are the results from the use of phosphates so manifest as on the Potato. Almost invariably the tubers are smoother, brighter and freer from rust and the destructive influence of wire worms. **GRIFFITH & TURNER CO.'S PLANT FOOD** is especially adapted for Potatoes, as it promotes growth and at the same time prevents disease. Plant as early in the spring as the ground can be thoroughly worked in rows three feet apart and one foot in the rows, covering in light, warm soil about four inches, and in cold, wet ground three inches deep; draw the earth to the plants as they advance in growth. The soil should be constantly stirred through the season to prevent the surface from baking.



G. & T. CO.'S EXTRA EARLY PRIZE.—This Potato is in all respects a very superior early sort. It proved to be the earliest and most productive of any we tried; also found its eating qualities first-class. We consider it the best early Potato on the market today.

Peck, 50c. Bushel, \$1.50. Barrel Sack, \$3.90.

BLISS TRIUMPH.—This beautiful variety combines the wonderful productiveness of the Peerless with all the good qualities of the Early Rose; is much more productive and matures its crop at least a week in advance of the Early Rose.

Peck, 50c. Bushel, \$1.75. Barrel Sack, \$4.50.

MAINE, or HOULTON EARLY ROSE.—The Early Rose led the list for over 30 years, and is today one of the best early market Potatoes. Our stock of this is grown on new land, near Houlton, Maine; is rugged and pure, and produces as good crops as those which made the Early Rose famous in its early years. Remember, that this stock is not to be confounded with the old run-out Rose grown in other sections.

Peck, 50c. Bushel, \$1.50. Barrel Sack, \$3.75.

EARLY OHIO.—This is very early and productive, of fine quality and an excellent keeper.

Peck, 50c. Bushel, \$1.50. Barrel Sack, \$4.00.

EARLY BOVEE.—One of the earliest varieties; good size, very smooth; uniform, perfect shape; eyes shallow; light skin and white flesh. Cooks dry and floury; of superb quality; a great yielder and healthy grower.

Peck, 50c. Bushel, \$1.50. Barrel Sack, \$3.75.

CROWN JEWEL.—Very early and prolific; skin pinkish white. One of the best for early market. It is planted very largely in this vicinity and the South.

Peck, 50c. Bushel, \$1.50. Barrel Sack, \$3.75.

WHITE BLISS TRIUMPH, or PRIDE OF THE SOUTH.—Extra early round white; identical with the Red Bliss, only different in color. A very fine variety for early market or family garden.

Peck, 50c. Bushel, \$1.75. Barrel Sack, \$4.50.

BEAUTY OF HEBRON.—Very rapid and vigorous grower, ripening as early as Early Rose, which it resembles, but frequently exceeds in productiveness and excellence for table use, either baked or boiled.

Peck, 50c. Bushel, \$1.50. Barrel Sack, \$3.75.

EARLY PURITAN.—A distinct and early variety; both skin and flesh white; quality superb, dry and floury; immense cropper. Fine for market gardeners.

Peck, 50c. Bushel, \$1.50. Barrel Sack, \$3.90.

EARLY HARVEST.—This beautiful new early Potato is a heavy yielder for an early variety; good size, nearly white. A good one for the market garden.

Peck, 50c. Bushel, \$1.50. Barrel Sack, \$3.90.

G. & T. CO.'S BOUNTIFUL.—The finest middle crop variety yet introduced. Before putting it on the market we have given it a thorough test, and are convinced of its superior qualities. A heavy cropper, yielding large, smooth, handsome tubers. Peck, 50c. Bushel, \$1.50. Barrel Sack, \$4.00.

EARLY NORTHER.—This superb Potato originated at Caribou, Maine. It resembles the Early Rose in shape and color, matures earlier than the Rose, and is much more productive. Under our own observation the past season it yielded more than the Rose, matured earlier, and was in all respects superior. Peck, 50c. Bushel, \$1.50. Barrel Sack, \$3.90.

NEW YORK EARLY ROSE.—A leading variety for earliness, quality and productiveness.

Peck, 50c. Bushel, \$1.50. Barrel Sack, \$3.75.

IRISH COEBLER (A New Sort).—Very productive, matures early; shape chunky, eyes strong and deeply set, skin netted, flesh white, quality very superior. The writer's attention was called to this variety while on a tour of inspection, and we concluded to place it in our collection, and find after two years' experience that it is a very superior variety. Don't fail to get it.

Peck, 50c. Bushel, \$1.50. Barrel Sack, \$3.90.

PROSPERITY.—A middle-crop variety, one of the handsomest large Potatoes ever produced. The yield is immense, and even under unfavorable circumstances can be relied on; flesh very white; cooks dry and mealy.

Peck, 50c. Bushel, \$1.50. Barrel Sack, \$3.50.

RURAL NEW YORKER, No. 2.—A valuable variety of large size, very smooth and a great cropper; in quality unexcelled. This variety is yearly becoming more popular as the best late long keeper, and we recommend it highly.

Peck, 50c. Bushel, \$1.50. Barrel Sack, \$3.50.

BURBANK.—This is an old and reliable variety, and is A No. 1 for a late, large-yielding, good-keeping Potato, and for table use, after January 1, is one of the best.

Peck, 50c. Bushel, \$1.50. Barrel Sack, \$4.00.

NEW QUEEN.—A grand Potato of recent introduction, closely resembling Beauty of Hebron in appearance, color, size and shape, but is 7 to 10 days earlier and a heavy yielder. Our seed of this variety comes from Maine, where it originated, and is pure and true to name.

Peck, 60c. Bushel, \$1.50. Barrel Sack, \$3.75.

GREEN MOUNTAIN.—A fine late sort.

Peck, 50c. Bushel, \$1.50. Barrel Sack, \$3.75.

SWEET POTATOES

CHOICE JERSEY SWEETS AT MARKET PRICES DURING SEASON. WRITE FOR QUOTATIONS.

FIELD CORN

CHESTNUT GROVE YELLOW CORN.—This corn was grown on Chestnut Grove Farm, Baltimore county, and the average yield from the whole crop was 20 1-16 barrels to the acre. The ears are large, deep, medium-sized grain, and of beautiful color. **Qt., 15c. Peck, 75c. Bus., \$2.25. 10 bus. lots, \$2.00 bus.**

G. & T. CO.'S MAMMOTH YELLOW CORN.—The largest, most prolific yellow corn in existence; the ears attain an average length from 12 to 15 inches, and make a crop in 110 to 120 days, growing medium-sized fodder; very deep grain. **Qt., 15c. Peck, 75c. Bus., \$2.25. 10 bus. lots, \$2.00 bus.**

NEW MARYLAND YELLOW DENT.—The grains are unusually deep, ears large, stalks grow from 7 to 10 feet high, does not exhaust soil so much, and will stand drought better than a large stalk, and will yield 5 to 10 bushels per acre more than any other corn generally planted. **Qt., 15c. Peck, 60c. Bus., \$2.25. 10 bus. lots, \$2.00 bus.**

IMPROVED EARLY LEAMING.—Bred and tested for 10 years. Pedigree stock. An early selected variety of yellow corn; small grain, weighty and productive. Highly esteemed in Maryland and Pennsylvania. One of the earliest varieties of yellow corn in cultivation. **Qt., 15c. Peck, 60c. Bus., \$2.25. 10 bus. lots, \$2.00 bus.**

G. & T. CO.'S IMPROVED GOLDEN BEAUTY.—A large, broad-grained yellow corn, with ears of perfect shape and small cob. The richness of color and the quality of grain make it a very superior variety. **Qt., 15c. Peck, 60c. Bus., \$2.25. 10 bus. lots, \$2.00 bus.**

90-DAY YELLOW.—This is an excellent quick-growing variety. May be planted after peas are taken off, and make a good crop. Largely used by truckers around Baltimore. **Qt., 15c. Peck, 60c. Bus., \$2.25. 10 bus. lots, \$2.00 bus.**

GIANT BEAUTY YELLOW CORN.—Produces large ears from ten to fourteen inches in length; deep grain, small red cob. Good sized fodder, with blades very wide. Matures from 115 to 120 days. One of the heaviest yielders yet introduced. **Price: Qt., 15c. Peck, 75c. Bus., \$2.25.**

RED'S YELLOW DENT CORN.—Matures in 100 to 105 days. Has a rich yellow color, very solid heavy ears from 8 to 12 inches long, with 16 to 18 rows of grain. The grains are deep on a small red cob. Fodder from 7 to 8½ feet high, and produces a great many stalks with two ears. A fine early corn. **Qt., 15c. Peck, 75c. Bus., \$2.25.**

MAMMOTH YELLOW ENSILAGE CORN.—Especially adapted for ensilage, as it grows large fodder and blades; preferred by many to the white. **Qt., 15c. Peck, 60c. Bus., \$2.25.**

G. & T. CO.'S IMPROVED MARYLAND WHITE DENT CORN.—After years of careful selection we have secured this improved White Field Corn; grows good-sized ears and makes splendid meal. Produces better crops on average land than most any other variety. **Qt., 15c. Peck, 60c. Bus., \$2.25.**

BOONE COUNTY WHITE.—We believe this to be the best all around White Corn in existence. It is a heavy yielder; has large ears, deep grain, small cob and produces good-sized fodder, free from barren stalks. Matures in 110 to 115 days. **Price: Qt., 15c. Peck, 75c. Bus., \$2.25. 10 bus. lots, \$2.00 bus.**

SOUTHERN SNOWFLAKE.—A well-known and very popular corn through the South. Suitable for meal or feeding purposes; the best white corn for poor land. **Qt., 15c. Peck, 60c. Bus., \$2.25.**

90-DAY CORN (White with Red Cob).—This is an elegant corn for truckers and market gardeners, as it is as good a seller as green corn. Is suitable for either early or late crop. **Qt., 15c. Peck, 60c. Bus., \$2.25.**

HICKORY KING WHITE CORN.—Produces very large, broad, flat, white dent grains, which are closely placed on a very slender cob. **Qt., 15c. Peck, 60c. Bus., \$2.25.**

WHITE ENSILAGE CORN.—Specially adapted for ensilage. **Bus., \$2.25.**

POP CORN.—The best kind for popping. **Lb., 10c. 3 lbs., 25c. By mail, 20c. per lb.**

POP CORN POPPERS.—15c. each.

SEED WHEAT AND RYE

We can offer choice stocks of Seed Wheat and Rye, re-cleaned, and at reasonable prices. Write us August 1 for special prices for fall sowing.

SEED BUCKWHEAT

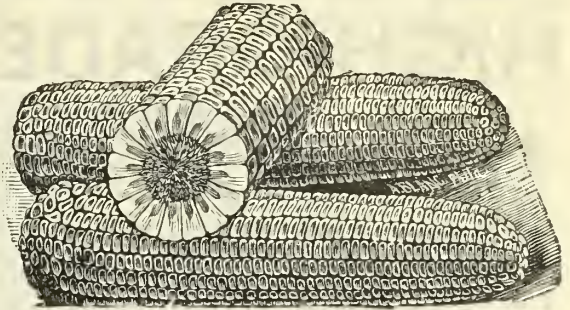
JAPANESE.—The best sort. The plants are large and vigorous, maturing their seed early and resisting drought and blight remarkably well, while the grain is much larger and at the same time has a thinner hull than the common or the Silver Hull. Owing to its branching character, only one-half the seed is required per acre, while the straw is much stiffer and stands up better. We recommend this especially for well-drained or sandy land and the dry climate of the Western plains. **Peck, 40c. Bushel, \$1.50.**

SILVER HULL.—Same price as above.

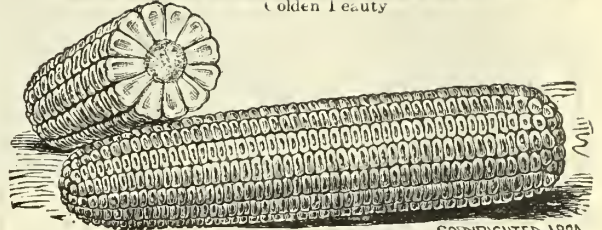
BARLEY

BEARDLESS SPRING BARLEY.—Sow as soon as frost is out of the ground, the earlier the better. Being beardless, it handles as easily as oats and makes a stronger feed. Write for prices.

FALL BARLEY.—Sow about first of September before sowing wheat in order to get best results. Write for prices.

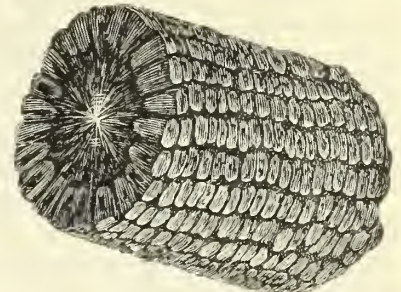


Golden Beauty



Maryland White Dent.

COPYRIGHTED 1884



Chestnut Grove.



Seed Oats

Improved White Tartar

The most remarkable Oats now under cultivation. Our customers say they will sow no others. This grand Oats outyields all others. The very best for all-round purposes. Greatest yielding variety in existence and rust-proof. Succeeds well on all soils. Straw is of golden yellow color, while the grains are white, with a slight golden cast. Withstands stormy weather. A measured bushel weighs from 36 to 42 lbs. Would highly recommend this Oats to all our customers. Change your seed this season. **Bushel of 32 lbs., \$1.00.**

BURT OATS, used extensively in the South; very early and prolific. **Bushel of 32 lbs., \$1.00.**

WHITE SEED OATS

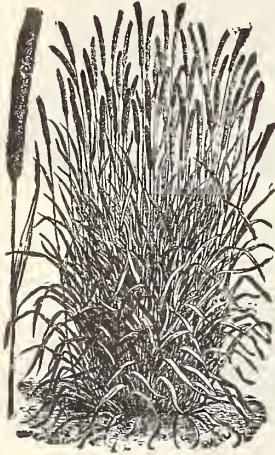
For spring sowing. 32 pounds to the bushel. Extra heavy fancy White Oats. Ask for prices.

WINTER TURF OATS

Perfectly hardy in the Southern and Middle States, standing the winter nearly as well as wheat. Yields, on good land, from 50 to 70 bushels to the acre, of fine, heavy grain, weighing from 30 to 40 pounds to the measured bushel. Furnishes excellent fall, winter and early spring grazing, without injury to the grain crop. Write for prices first of August.

WRITE FOR PRICES ON FIELD SEEDS IN QUANTITY.

HIGH-GRADE GRASS SEEDS



TIMOTHY (*Phleum pratense*.)

This makes one of the most popular, nutritious and salable of hay grasses. It is best adapted for sowing on clay or heavy loams, low lands or in mountainous districts, although it will do well on any good stiff loamy soils, provided moisture is abundant. It does not succeed nearly as well, however, as Orchard, Tall Meadow Oat or Herd's Grass on soils of a sandy or light loamy texture, and is not of as much value for pasturage as other grasses. The stand of Timothy will also be injured if grazed or cut too closely. The yield of hay on good ground is from one and a half to three tons per acre. The best clover to sow with timothy is either the Sapling or Alsike, as they mature and ripen with timothy. **Found, 10c. Peck, 90c. Bushel of 45 lbs., \$3.50.**

TALL MEADOW OAT GRASS (*Avena elatior*).—Most valuable for pastures on account of its early and luxuriant growth; it produces an abundant supply of foliage, which is relished by cattle, early and late. For hay it may be cut twice a year, and for green soiling it may be cut four or five times in favorable seasons. It is very hardy and withstands extreme drought and heat and cold. Height, 2 to 4 feet. 50 pounds to the acre. (10 pounds to hushel.) **Lb., 30c. 100 lbs., \$25.00.**

CREeping BENT GRASS (*Agrotis stolonifera*).—Excellent for lawns; succeeds well in all conditions; makes a low, velvety growth. **Lb., 40c. Bus. (20 lbs.), \$6.50.**

MEADOW FOXTAIL (*Alopecurus pratensis*).—Closely resembles Timothy in growth, but has a soft, feathery head. It is a valuable pasture grass by reason of its rapid growth. About 7 pounds to the hushel; 3 bushels to the acre. **Lb., 40c. Bushel, \$2.75.**

SHEEP FESCUE (*Festuca ovina*).—It is a densely tufted perennial grass for dry, sandy and rocky soil where scarcely any other species will grow. It roots deeply, and forms a dense, short tuft, suitable for lawns and pleasure grounds where the soil is sandy. It affords wholesome food for all cattle, especially sheep. Specially recommended for pasturage mixtures. Sow about 30 pounds per acre. **Lb., 30c. Bus., of 12 lbs., \$3.00.**

ITALIAN RYE GRASS.—Is an annual, and should be sown every year at the rate of fifty pounds per acre. It can be sown during August, September or October. It should be mown as early as the blossoms appear, or the hay will not be so good, and it can be cut every month from early spring if the soil and weather are suitable. **Bus., 20 lbs. Lb., 15c. 10 lbs., 90c. Per 100 lbs., \$9.00.**

ENGLISH RYE GRASS (*Lolium perenne*).—This makes a quick growth very early in spring, and is adapted for cool, moist locations. 24 lbs. to the bushel; 60 lbs. to the acre. **Lb., 15c. Bus., \$2.25.**

CRESTED DOG'S TAIL (*Cynosurus cristatus*).—Should enter in moderate quantity in permanent pasture mixtures, and in larger quantities for lawns, as it possesses in a marked degree all the desirable features of a good lawn grass. 21 lbs. to bus. **Lb., 40c. 10 lbs., \$3.50.**

WOOD MEADOW (*Poa nemoralis*).—An early nutritive grass; thrives better under trees than other grasses. Is also an excellent pasture grass. **Lb., 45c. 10 lbs., \$5.00. 14 lbs. to bus.**

RHODE ISLAND BENT GRASS (*Agrotis canina*).—A very fine variety for lawns. **Lb., 45c.**

SWEET VERNAL (*Anthoxanthum odoratum*).—True perennial; emits an agreeable odor, which it imparts to the hay. **Lb., 90c.**

AWNLESS BROME GRASS (*Bromus inermis*).—Comparatively a new grass in this country, but in Hungary (Europe), its principal home, it is the chief meadow grass of the sandy moorlands. It grows coarse, resembling Orchard Grass; prefers light, dry soil. It roots deeply, and stands protracted droughts well, and will thrive upon soils too poor and dry to grow anything else but broom sedge; hence is valuable for such situations, both for grazing and hay, and especially in mixtures with other grasses. It has, however, been talked up very much in the agricultural press, especially in the West, and is worthy of extended trial. Sow at the rate of from 35 to 40 pounds per acre when sown by itself either in the spring or fall. **Lb., 30c. Bus. of 14 lbs., \$3.25.**

RED TOP, OR HERD'S GRASS (*Agrostis vulgaris*).—This grass makes excellent pasturage and good crop of fine quality hay, and succeeds on a greater variety of soils than any other grass in general use, giving very good results on light soils and the very best results on heavier, moist or low ground soils. It is rather late in starting in the spring and matures its crop at the same time as Timothy. Is excellently adapted for seeding with Timothy for hay, and furnishes excellent pasturage afterwards. When it gets well established it will gradually supplant other grasses. The grades of seed usually sold are:

CHAFF RED TOP.—Seed in chaff.

UNHULLED RED TOP.—Seed in hull, but free of chaff and impurities.

FANCY CLEANED RED TOP.—Hulled seed, free from all impurities. We would advise our customers to sow the Extra Cleaned Unhulled or Fancy Cleaned Seed.

Chaff Red Top.—Sow 4 to 6 bushels to the acre, 10 lbs. to bushel. **Price, 50c. bus.**

Unhulled Red Top.—Sow 2 to 3 bushels to the acre, 14 lbs. to the bushel. **Price, lb., 15c.; bus., \$1.25; 100 lbs., 8c. lb.**

Fancy Cleaned Red Top.—Sow 12 to 15 lbs. to the acre. **Price, 20c. lb.; \$15.00 per 100 lbs.; bushel of 32 lbs., \$5.00.**



RED TOP GRASS.

Orchard Grass

(*Dactylis glomerata*.)

One of the best and most reliable grasses for the Middle and Southern States, either for hay or pasturage. It succeeds well on nearly all soils, but does best on upland, loamy or moderately stiff soils. It starts early in the spring and continues well into winter. It is of quick growth and relished by stock, especially when young, and bears close grazing. It makes excellent hay, and gives the very best results mixed and grown with Tall Meadow Oat Grass and Red Clover, as suggested under the head of Tall Meadow Oat Grass. It should be cut when in blossom, as the hay is injured if the seed is allowed to ripen. It can be sown in the spring or fall either with grain or alone. Sow 3 bushels per acre if sown alone, or with Red Clover, one and one-half bushels of Orchard and seven pounds of Clover are the quantities usually sown. **Price, 20c. lb. Bus. of 14 lbs., \$2.25.**

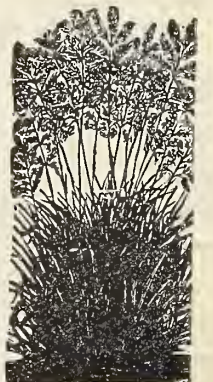
MEADOW FESCUE, RANDALL, or ENGLISH BLYE GRASS (*Festuca pratensis*).—This should be very much more largely used than at present. It makes a very good hay and pasturage grass, and is particularly valuable for fall and winter pasturage, as it remains green throughout the winter. It is very popular in Southwest Virginia, East Tennessee and the Mountainous districts of North Carolina, where it is very highly appreciated as a large-yielding, nutritious pasturage and hay grass. It succeeds well in nearly all sections of the South, and should be very largely used in pasturage and hay mixtures, being specially suitable for sowing with Red Top and Timothy for hay, or with these and Orchard and Tall Meadow Oat for permanent pasturage. Sow either in the spring or fall at the rate of 50 pounds to the acre. Thrives better under trees than other grasses. 22 lbs. to bus. **Lb., 20c. 100 lbs., \$15.00.**

KENTUCKY BLUE GRASS.—It is rather sensitive to heat, but not so to cold weather, and on this account does its best in the fall, winter and spring. It grows slowly at first, forms a very compact turf, making a fine pasturage when once established. It is much the best, however, to combine other grasses with it for either lawn or pasturage. Sow in the spring or fall. **Fancy, triple-cleaned. Per lb., 20c. Bus. of 14 lbs., \$2.25.**

NOTICE.—Beware of cheap Canada Blue Grass, but if you want it we will supply same on short notice at low prices.

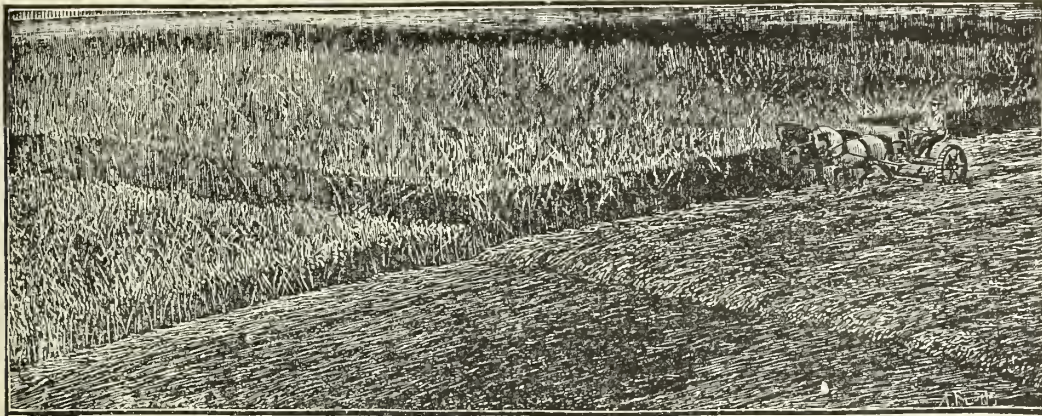


ORCHARD GRASS.



KENTUCKY BLUE GRASS.

GRASSES AND CLOVERS



Our Permanent HAY and PASTURE GRASS

is prepared especially to meet the demand for a mixture that will be desirable either for cutting for Hay or to use for Pasture, and contains such grasses as are best adapted for these purposes. In ordering, please state whether you want a mixture for upland or low ground.

Mixture for Upland.

14 lbs. to the bus., 3 bus. to the acre. Per bus., \$2.25; 10 bus. for \$22.00.

Mixture for Lowland.

14 lbs to the bus., 3 bus. to the acre. Per bus., \$2.25; 10 bus. for \$22.00.

Grass and Clover Seed Mixtures FOR MOWING FOR HAY, BUT CAN BE GRAZED

We have in the following mixtures combined grasses suitable for the various soils for which they are recommended.

They are composed of grasses which will give an even growth for mowing for hay. We have also combined them so as to give a splendid pasture from early spring until late fall if desired.

The different mixtures are prepared from seeds of the finest quality, and only those are used best adapted to the soils and situation for which they are intended:

MIXTURE No. 1.

For Moist Bottom Land.

Sow 25 lbs. to the acre. Price, Lb., 16c. 10 lbs. and over, 15c. per lb.

MIXTURE No. 2.

For Light, Dry, Gravelly or Sandy Soils.

Sow 35 lbs. to the acre. Price, Lb., 18c. 10 lbs. and over, 17c. per lb.

CLOVER SEED RECLEANED RED CLOVER

We take great pains to supply an extra quality of Red Clover at a reasonable price. Farmers should not sow a poor quality of Clover Seed. We have, however, cheaper grades for those who wish them. 25c. lb. By mail, 35c. lb.

Ask for prices in large quantities.

ALSIKE OR SWEDISH CLOVER

Hardest of all the Clovers, and on rich, moist soils yields an enormous quantity of hay or pasturage. Valuable for sowing with other Clovers or grasses, as it forms a thick bottom and increases the yield of hay. Sow, either fall or spring, 6 pounds per acre when used alone.

Lb., 25c. By mail, 35c. Ask for prices in quantity.



LUCERNE.

LUCERNE OR ALFALFA CLOVER

One of the most valuable among Clovers, resisting drought and remaining green when other sorts are dried up. Sow on rich, moist loam or sandy soil. Prepare the land thoroughly and sow, either fall or spring, 20 lbs. to the acre.

Found \$.20
By mail30
10 pounds, by express 1.75

Special prices in large quantities on application.

WHITE DUTCH CLOVER

Thrives most everywhere. The best to sow with lawn grass and valuable to sow with blue grass for permanent pastures.

1/4 pound, 15c. 1/2 pound, 25c. 1 pound, 50c.
By mail, pound 60c.
10 pounds, by express, not prepaid \$5.00

CRIMSON CLOVER

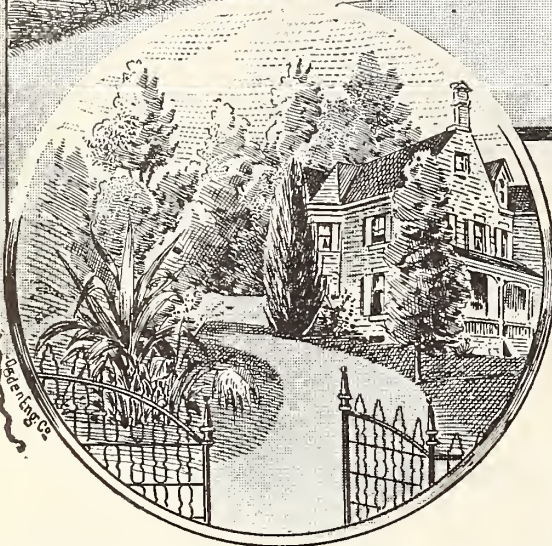
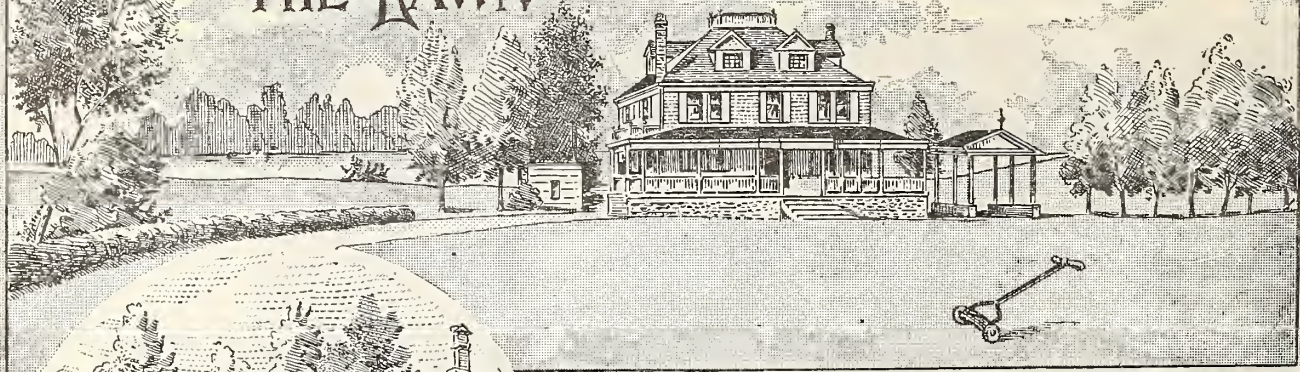
THE GREAT NITROGEN GATHERER.

The best crop for hay, silage and green manuring—all winter and spring pasturage. For hay it must be cut before it comes into full bloom, as otherwise it may cause hair-balls to form in the animal's stomach. It is used on poor and rich land. It is seeded in this country in June, July, August, September and October, and will produce an enormous crop early in the following spring, suitable either for consumption as green food or for hay. 15 to 20 pounds should be sown to the acre, according to the quality of the ground. 12 cents per pound; by mail, 20 cents per pound. Write for prices in quantity.

If any of the above wanted by mail, add 8c. per lb. for postage.

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

THE LAWN



PREPARATION AND CARE OF LAWNS

THE ground should be thoroughly drained and well enriched before sowing. Work the soil until well pulverized, and have the surface as level as possible, so that the grass may present an even appearance. After sowing, cover seed lightly and follow with roller. The best results are obtained by using plenty of seed, four bushels to the acre being about the right quantity. One quart is sufficient for 300 square feet. Let the grass obtain a good start before cutting, and then it should be trimmed with a lawn mower about every ten days. Old lawns may be improved and renewed by the application of fertilizers and seeding about half the quantity of seed required for new lawns. This should be done whenever they show any thin places.

Griffith & Turner Co.'s Evergreen Lawn Grass

This is a first-class mixture prepared by ourselves, and containing nothing but choice seeds—just the thing for tennis, croquet and ball grounds, remaining green and fresh during the hot summer months. Widely known and extensively used on the finest private and public grounds around Baltimore, Washington and elsewhere with the most satisfactory results. Nothing adds to the attractiveness of suburban homes more than a well-kept, closely-cut, velvety lawn; hence the importance of securing the best seeds. This we offer in our selected Evergreen Lawn Mixture, containing different varieties that grow and flourish at different months of the year, so that a rich, green, velvety lawn is constantly maintained. It is adapted to the small grass plots of city homes. **Pint, 10c. Quart, 20c.; by mail, 25c. 1/2 Peck, 65c. Peck, \$1.10. Bushel of 20 pounds, \$4.00. By freight or express, not prepaid.**

PARK LAWN GRASS

This mixture does not contain so much of the high-priced grasses as our Evergreen Lawn Grass, but it is superior to many of the cheap grades offered, and will make a very nice lawn. **Qt., 20c. Peck, \$1.00. Bus. of 16 lbs., \$3.00.**

OUR LAWN GRASS SHOULD NOT BE CONFOUNDED WITH THE CHEAP, CHAFFY GRASSES OFFERED AT LOW PRICES.

Griffith & Turner Co.'s Golf Link Mixture

Bushel.....\$3.75. Ten-Bushel Lots.....\$3.50 bus.

There being a growing demand for a grass mixture suitable for golf and cricket grounds, we have made a study of the grasses best adapted to these purposes, and have them mixed in proper proportions to give desired results. Many of the public and private grounds around Baltimore and other places have been sown with our mixtures, and the grounds have won the admiration of thousands of visitors.

It is highly essential that golf and cricket grounds should be mowed closer than ordinary lawns. 14 pounds to bushel.

SHADY NOOK GRASS

On nearly all lawns there are bare spots under the shade of trees. With this mixture the above can be easily corrected. It is a combination of grasses which are found growing in the woods in their natural state.

Ground that has been densely shaded by trees is frequently "sour" and is apt to be covered with moss. In such cases apply slacked lime at the rate of one bushel per thousand square feet, but the moss should be first removed with a rake.

Price: Lb., 35c. 5 lbs., \$1.65. Bushel of 20 lbs., \$6.00. Add 8c. for postage.

"TERRACE" SOD MIXTURE

A special mixture of grasses best suited for sowing on terraces, railroad embankments and side hills—grasses that produce strong, spreading roots, thus preventing heavy rains from washing them out; that will withstand drought and exposure, thrive on shallow soils, and at the same time produce a rich, velvety green turf throughout the season. **Qt., 35c. Peck, \$2.00. Bushel of 20 lbs., \$6.00. Delivered free anywhere in America.**



PAT. AUG. 4, 1908.

BARR LAWN TRIMMER

Used for trimming grass from edges of sidewalks, under plants, shrubs, hedge fences and other places where it is impossible to get a lawn mower. No bending of back and crawling around on the knees.

Price, \$1.25.



WHITE DUTCH CLOVER (Trifolium Repens.)

See page 32.

The best variety for lawns, as it forms a close herbage and remains green throughout the season. It is also valuable when mixed with grass seeds for pasture. Sow in spring at the rate of 6 pounds per acre when sown alone; half the quantity when sown with other grasses.

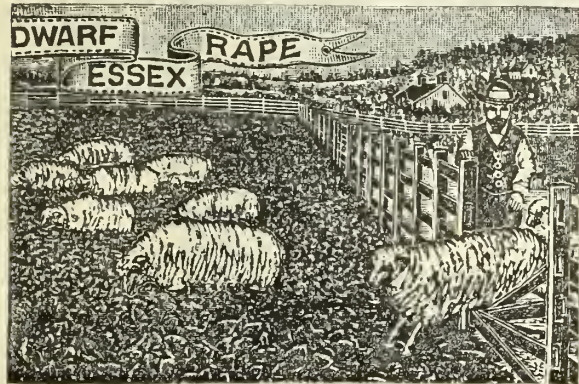
Found, 50c. By mail, 60c. 10 pounds by express, \$5.00.

FORAGE AND SILO SEEDS

For years we have taken special care in the selection of the various sorts of Grass and Clover Seeds for field culture, and in consequence our trade in this line has rapidly increased.

Purity of stock and high germinating quality we consider essential.

As we handle very large quantities of these seeds, we are enabled to supply the best quality at lowest prices.



MILLET

GERMAN, OR GOLDEN MILLET.

An improved variety, medium early, growing 3 to 5 feet high. The heads are closely condensed, though the spikes are very numerous. This is the best and most productive millet to grow. Price, **Lb., 10c. Pk., 50c. Bus. of 50 lbs. Ask for prices by the bushel.**

HUNGARIAN MILLET (*Panicum germanicum*).—Early and productive, growing 2 to 3 feet high, with an abundance of foliage and slender heads. Price, **Lb., 10c. Pk., 50c. Bus. of 50 lbs. Ask for prices by the bushel.**

COMMON MILLET.—Weight, per bus., 50 pounds. Price, **Lb., 5c. Pk., 50c. Ask for prices by the bushel.**

DWARF ESSEX RAPE

It can be sown all through the season; being perfectly hardy, withstands the drought, and will produce a crop in any soil by sowing broadcast at the rate of 5 lbs. to the acre, or 2 to 3 lbs. in drills. It is unequaled as a pasture for sheep, and as a fattening food for all kinds of live stock it is without a rival. **Lb., 12c.; by express, 10 lbs. and over, 10c. lb., not prepaid; \$9.00 per 100 lbs. If wanted by mail, add 8c. per pound for postage.**



MILLET

SORGHUM, OR SUGAR CANE

EARLY AMBER grows 10 to 12 feet high and yields large crops of fodder, which is relished by all kinds of stock. It will produce two cuttings during the summer. Sow 3 or 4 quarts per acre in drills and cultivate same as corn. For hay, sow one bushel per acre broadcast. **Lb., 10c. Pk., 50c.**

EARLY ORANGE has a large, strong growth, but requires longer time to mature than the Early Amber. Very popular in the South, where there are long seasons. Prices same as Early Amber.

VETCHES OR TARES —**SPRING VETCHES** (*Vicia sativa*).—Closely associated with peas in character. Highly valuable for soiling or for green manuring. Sometimes grown with oats for mowing and feeding to stock. Use 2 to 3 bushels to the acre. Sow in spring while ground is cool and moist, or in early autumn. **Lb., 10c. Peck of 15 lbs., \$1.25. Bus. of 60 lbs., \$4.00.**

WINTER VETCHES (*Vicia villosa*).—Also called Sand Vetch, or Hairy Vetch. Recommended for fall sowing with rye, as in many localities in the North it is hardy, remaining green all winter. A valuable food for stock in early spring. Use 1 to 2 bushels per acre. **Lb., 15c. Peck of 15 lbs., \$1.60. Bushel of 60 lbs., \$6.00.**

TEOSINTE.—A most valuable and enormous yielding cutting forage crop, but should be planted very early to succeed well. Good to use as green food, and also makes an excellent fodder. It branches as many as 50 stalks from one seed. Plant in May or June in rows 4 to 5 feet apart each way. **Oz., 10c. ¼ lb., 30c. Lb., \$1.00, postpaid.**

COW PEAS

THE GREAT SOIL ENRICHER. MAKES POOR LAND RICH. MAKES GOOD LAND BETTER.

Prices on application.

BLACK COW PEA.—It is a splendid land improver and most valuable as a forage crop, making an enormous yield of rich, nutritious food. Sow in May or June at the rate of one bushel per acre for seed, or two bushels for soiling.

BLACK EYE COW PEA.—The Black Eye Cow Peas are very prolific and bring a good price on our market.

WHIPPOORWILL PEA.—Makes a splendid forage pea. Vines stay green longer than other varieties; pods ripen earlier.

WONDERFUL, or UNKNOWN.—This makes an enormous and remarkable growth of vines, but requires the full growing season to make its crop. In yield and growth of vines it surpasses any of the varieties of Cow Peas, and it produces very largely of the shelled Peas. This variety should be planted in May in order to come to full maturity.

SOJA BEANS

The great drought resisting forage crop; unsurpassed in nutritive value for feeding; also makes a splendid soil improver. Sow broadcast one-half bushel to the acre, or it may be planted in drills three feet apart and one foot between plants. Price on application.

CANADA FIELD PEAS

Sown in February, March or April, with a small quantity of oats, they make a large yield of forage. Sow 1 to 1½ bushels per acre broadcast with half a bushel of oats. Cut for hay before the peas mature. **Peck, 85c.**

Write for special prices if a quantity is required.

BROOM CORN —50 lbs. to Bushel.—To grow Broom Corn successfully the ground should be rich and well prepared. Plant seeds in rows 3 feet apart by 18 inches. The plants should be cultivated as soon as they are out of the ground. Harvesting should be done when the seed is in a soft, milky condition.

IMPROVED EVERGREEN.—This is the favorite sort; has a fine brush, yields well and keeps green. Height, 8 to 9 feet. **Lb., 25c., postpaid. Peck, 90c. Bus., \$3.00.**

RUSSIAN SUNFLOWER.—Growing to double the size of the common sunflower and the yield of seed is twice as great. It is highly recommended for poultry—the best egg-producing food known. **Lb., 10c. 4 lbs., 25c. Add 8c. lb. by mail.**

KAFFIR CORN.—The heads contain small white seeds, which make an excellent flour. They are greedily eaten by horses and cattle, and make fine feed for poultry, either fed in the grain or ground and cooked. Use 4 to 5 lbs. to acre. **Price, lb., 10c. 10 lbs., 50c. 100 lbs., \$2.50.**

FLAXSEED.—Lb., 10c. 4 lbs., 25c.



SELECTED FLOWER SEEDS

Ten 5c. Papers, mailed, for 25c., or Four 10c. Papers for 25c. The letter "A" means annual. The letter "P" means perennial.

ORDER BY NUMBERS.

1. **AGERATUM, MIXED (A)**.—Suitable for beds, and especially nice for cut flowers and bouquets. **Packet, 5c.**
10. **ALYSSUM (A)**.—The Sweet Alyssum has pretty little white flowers, useful in making small bouquets, and its fragrance, while sufficiently pronounced, is very delicate. The Alyssum grows freely from seed; blooms the whole season. **Oz., 20c. Packet, 5c.**
11. **ALYSSUM (A) (Tom Thumb)**.—Of dwarf, compact habit, each plant covering a circle from 15 to 30 inches. It will bloom when small and remain covered with bloom from spring to autumn. **Oz., 25c. Packet, 5c.**
20. **AMARANTHUS, MIXED (A)**.—Showy blooming plants, with long racemes of curious looking flowers and brilliant foliage; half-hardy annuals. **Packet, 5c.**
21. **AMARANTHUS, TRI-COLOR (Joseph's Coat) (A)**.—Red, yellow and green foliage; 2 feet. **Packet, 5c.**
22. **AMARANTHUS CAUDATUS (Love Lies Bleeding) (A)**.—Graceful and handsome flowers of blood-red hue. **Packet, 5c.**
24. **ANTIRRHINUM, DOUBLE MIXED (P)**.—One of the most useful and showy border plants. **Packet, 5c.**

ASTERS

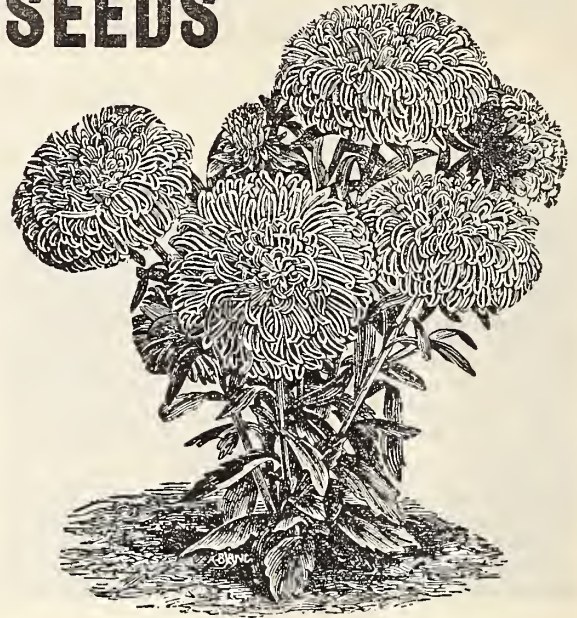
Sow seed in March and April in cold-frame or boxes in the house, covering them $\frac{1}{4}$ -inch deep, and when plants have three or four leaves, transplant about 18 inches apart each way into well-prepared beds.

25. **ASTERS, CHINA (A)**.—Choice mixed varieties. **Packet, 5c.**
26. **ASTER, GERMAN (A)**.—All colors and shades of the best German sorts. **Packet, 5c.**
27. **ASTER, TRUFFAUT'S PERFECTION (A)**.—A very favorite class; thrifty, upright growers; flowers large, almost perfectly round, with incurved petals. The florist's preference; $1\frac{1}{2}$ to 2 feet. **Packet, 10c.**
28. **ASTER, PRINCESS SNOWBALL (A)**.—The flowers are pure white, and are formed of short, thickly set imbricated petals, there being about 25 to 30 on a plant. **Packet, 10c.**
29. **ASTER, MIGNON (A)**.—A splendid new class of Asters. The plants are semi-dwarf, and bear in profusion flowers of a very double nature, the petals overlapping each other. **Packet, 10c.**
30. **ASTER, VICTORIA (A)**.—The most beautiful of all Asters, bearing flowers of all colors and shades; the colors include many extremely delicate and gorgeous shades. Very double and four inches across; height, 15 to 18 inches. **Packet, 10c.**
31. **ASTER, COMET (A)**.—This class of Asters has long, slender and curled petals, forming loose yet dense flowers of semi-globe shape, $3\frac{1}{2}$ to $4\frac{1}{2}$ inches in diameter, which resemble the Japanese Chrysanthemum. **Packet, 10c.**



Aster Snowball.

45. **MIXED (A)**.—Pretty in beds or masses; useful for bouquets. **Packet, 5c.**
46. **WHITE (A)**.—Treated and used same as the mixed. **Packet, 5c.**
50. **CALCEOLARIA DWARF (A)**.—This is a magnificent ornamental plant for greenhouse or conservatory, bearing in profusion pocket-shaped flowers of all colors, spotted and blotched in the most fanciful fashion. **Packet, 25c.**
53. **CALENDULA, DOUBLE (A)**.—Very profuse dwarf bushy annuals, blooming continuously and profusely until frost; of easy culture, and suitable for summer garden or for growing in pots in winter. **Packet, 5c.**
55. **CANNA, MIXED (Extra Choice) (A)**.—The Cannas are desirable not only for the beauty of their spikes of flowers, but for their highly ornamental leaves. They make superb beds for the lawn. Soak the seeds thoroughly before planting, and keep in a warm spot. Very slow to germinate. **Packet, 5c.**
60. **CANTERBURY BELLS, SINGLE MIXED (Campanula) (A)**.—A highly attractive class of plants, valuable for beds and borders. Sow early and transplant in light, rich soil. **Packet, 5c.**
61. **CANTERBURY BELLS, DOUBLE MIXED (P)**.—**Packet, 5c.**



32. **ASTER, DWARF CHRYSANTHEMUM FLOWERED (A)**.—Grow 9 inches high; surpass all the dwarf varieties in size of flowers. **Packet, 10c.**
 33. **ASTER, SEMPLE'S BRANCHING, MIXED (A)**.—A choice strain of American-grown Asters, which has, by careful selection, been brought to a high degree of excellence. **Packet, 10c.**
 34. **ASTER, SEMPLE'S BRANCHING (A) (White)**.—Very choice. **Packet, 10c.**
 35. **BACHELOR'S BUTTON, or BLUE BOTTLE (A) (Centaurea Cyanus)**.—A very old favorite garden annual, with handsome flowers of various colors. It does best if sown in a hot-bed; half-hardy annuals; 2 feet. **Packet, 5c.**
 40. **DOUBLE BALSAMS, CAMELIA FLOWERED (A) (Lady Slipper)**.—One of the finest summer blooming annuals, free bloomers and highly colored. By transplanting them once or twice, the flowers are apt to be more double. **Pkt., 5c.**
 41. **BALSAM, PERFECTION WHITE (A)**.—This resembles the mixed Balsams in shape, but the flowers are of a pure white. **Packet, 10c.**
- CANDYTUFT**.—Sow out of doors early in spring where they are to bloom, and thin well when the plants grow about an inch; then sow again in July for fall flowers.



33.—SEMPLÉ'S BRANCHING.

FLOWER SEEDS THAT GROW Ten 5c. Papers Mailed for 25c., or Four 10c. Papers for 25c.

- 68a. **CENTAUREA GYMNOCARPA**.—Fine cut silver-gray foliage; 1½ feet. Packet, 5c. ¼ Oz., 10c.
- 68. **CENTAUREA CANDIDISSIMA**.—Silver white; leaves broadly cut. Packet, 5c. ¼ Oz., 10c.
- 70. **CHRYSANTHEMUMS, SINGLE, MIXED (A)**.—Showy and effective garden favorites extensively grown for cut flowers. The hardy annuals are summer flowering border plants; good for pot culture and quite distinct from the autumn flowering varieties. Packet, 5c.
- 71. **CHRYSANTHEMUMS FRUTESCENS (A)**.—(The Marguerite, or Paris Daisy).—It produces freely its white, star-like flowers under the most favorable conditions. Packet, 10c.
- CINEERARIA**.—Seed should be sown in well-drained seed pans or shallow pots of light rich soil, giving the seed but a very slight covering. Place a piece of glass over the pot to retain moisture. When the plants have made their first pair of leaves they should be potted off into smaller pots. As fast as the pots are full of roots, shift into larger one till the flowering size is reached.
- 75. **CINEERARIA (Dusty Miller) (P)**.—Fine for bedding, ribbon beds and margins; prized for their beautiful, downy, silvery foliage; half-hardy perennials; 2 feet. Packet, 5c.
- 76. **CINEERARIA HYBRIDA (P)**.—Large flowered prize varieties; very attractive, free blooming plants, producing large and brilliant flowers. Packet, 25c.
- 77. **CINEERARIA HYBRIDA DWARF (P)**.—Large flowered, dwarf prize varieties; splendid strain. Packet, 25c.
- 80. **CLARKIA, MIXED (A)**.—An old favorite hardy annual plant, growing in any garden soil, and producing freely its cheerful flowers early in the season; 1½ feet. Packet, 5c.
- 85. **COCKSCOMBS (Celosia Cristata) (A)**.—Very popular annuals of the easiest culture, highly ornamental for decoration of the greenhouse, drawing-room and garden. Half-hardy annuals. Packet, 5c.
- 86. **COCKSCOMBS, GLASGOW PRIZE (A)**.—Immense, showy, dark crimson combs. 10c.
- 88. **COWSLIP (P)**.—Beautiful hardy spring flowers of different colors. Packet, 10c.
- 89. **COLEUS (A)**.—Very choice plants, with richly colored foliage of maroon, green, crimson, yellow, etc. Packet, 25c.
- 90. **CONVOLULUS, TRI-COLOR MINOR (Dwarf Morning Glory) (A)**.—A beautiful class of hardy annuals, affording a large, showy mass of flowers from July to October. Packet, 5c.
- 93. **COREOPSIS (Calliopsis) (P)**.—Very handsome and showy plants, with numerous flowers of brilliant colors, and of long duration in bloom. Packet, 5c.
- 93a. **COREOPSIS LANCEOLATA (P)**.—IMPROVED (California Sunbeams).—This is one of the finest of hardy plants, with large, showy, bright golden-yellow flowers, freely produced on long stalks, from June till frost; excellent for cutting; will thrive in almost any situation. Pkt., 5c. ¼ Oz., 25c.

COSMOS

Large flowering. Sow early in spring and transplant when danger from frost is past. The flowers are borne profusely and present a charming appearance when in full bloom, being covered through the autumn months with hundreds of showy blossoms. They are very easily raised, and make a grand display.

94. **TINTS OF DAWN COSMOS (A)**.—This new variety comes into bloom in July, and continues a mass of bloom until cut down by severe frost. In addition to this, it is of dwarf growth, and large flowers. Packet, 10c. ¼ Oz., 20c.

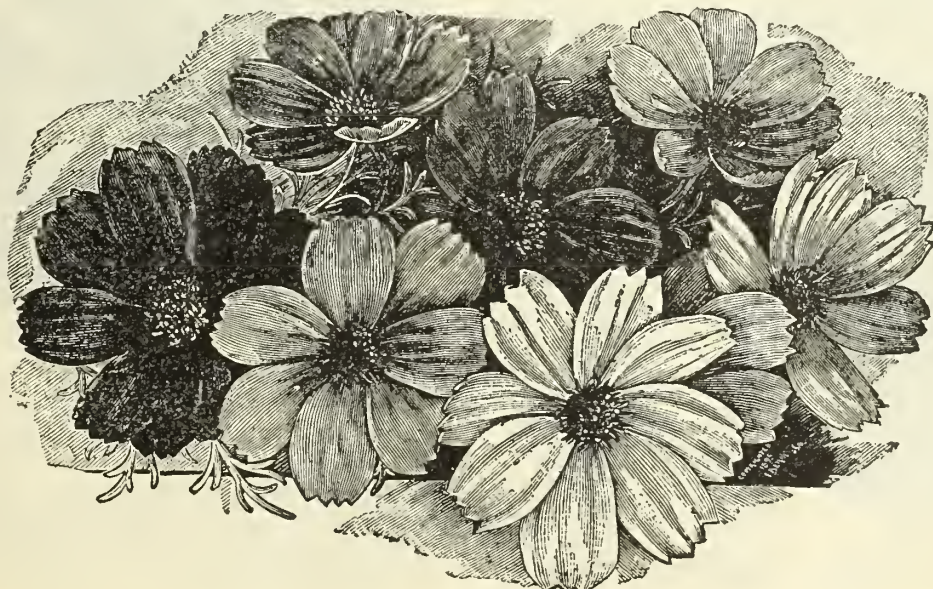
95. **COSMOS, Mixed (A)**.—Packet, 5c. Oz., 25 cents.

95a. **COSMOS, Pink (A)**.—Pkt., 5 cents.

95b. **COSMOS, White (A)**.—Packet, 5c.

95c. **COSMOS, Crimson (A)**.—Packet, 5c.

95d. **NEW MARGUERITE COSMOS (A)**.—One of the prettiest and daintiest varieties imaginable. Packet, 10c.



96. **CYCLAMEN—PERSI-CUM—GIGANTEUM, MIXED (P)**.—Charming plants, with beautiful foliage and rich colored, fragrant flowers. Packet, 25c.

DAHLIA

One of our best autumnal flowering plants. Blooms until killed by frost; tuberous-rooted, half-hardy perennials, blooming the first year from seed if sown early.

100. **SINGLE MIXED (A)**.—Large, showy flowers. Packet, 5c.

100a. **CACTUS DAHLIA (A)**.—A most curious and desirable variety of many colors. Packet, 5c.

DAHLIA ROOTS AND PLANTS IN GREAT VARIETY. See pages 44 and 45 in Plant Department for full description of the many kinds and prices.

97. **DAISY, MIXED (P)**.—Well-known favorites, admirably adapted for edgings, borders and low beds, and it is also suited for growing in pots. Although they are perennials, they will flower the same season if seed is sown early in the house. Packet, 10c.

98. **DAISY LONGFELLOW (P)**.—Large, double pink. Packet, 10c.

99. **DAISY, SNOWBALL (P)**.—Very double, pure white flowers. Packet, 10c.



DAISY.

like flowers, succeeding best in a shady, moist situation; half-hardy perennials; blooming the first year from seed if sown early. Packet, 5c.

106. **FOXGLOVE (DIGITALIS) (P)**.—A handsome and highly ornamental, hardy perennial plant of stately growth; fine for shrubberies and other half-hardy places; 3 feet. Packet, 5c.

107. **GERANIUM (New Zonale) (A)**.—A grand strain of Geraniums, containing all shades of colors. Packet, 10c.

103. **FEVER-FEW (GOLDEN FEATHER) (Pyrethrum Aureum) (P)**.—A highly ornamental golden-yellow foliage plant, unexcelled for bedding. Hardy perennial; 1½ feet. Packet, 5c.

105. **FORGET-ME-NOTS (Myosotis) (P)**.—Neat and beautiful little plants, with star-like flowers, succeeding best in a shady, moist situation; half-hardy perennials; blooming the first year from seed if sown early. Packet, 5c.

108. **GODETIA — Finest Mixed (A)**.—Fine, profuse blooming, hardy annuals. Pkt., 5 cents.

109. **GAIL-LARDIA (A)**.—Very attractive plants, producing a profusion of bloom the entire summer and autumn. Half-hardy annuals. Pkt., 5c.

110. **GILIA MIXED (A)**.—Very pretty dwarf plants, early, free blooming; fine for massing and rock work. Hardy annuals. Packet, 5c.

111. **GLOXINIA (A)**.—Large flowering, choice mixed. Produces in great profusion large bell-shaped flowers of the richest variety of colors. Pkt., 25c.



CYCLAMEN.

CHOICE FLOWER SEEDS

Ten 5c. Papers Mailed for 25c.,
or Four 10c. Papers for 25c.

112. **HELIOTROPE**.—A half-hardy perennial, growing 4 to 8 feet high. Small flowers, borne in graceful clusters, and very fragrant. Will bloom the first season from seed if sown early. **Packet, 5c.**
115. **HOLLYHOCK, CHATERS SUPERB MIXED (P)**.—Perennial plants of stately growth. The blossoms are set as double and semi-double rosettes around the flower stalk in almost every color. Makes a charming hedge or background. **Packet, 5c.**
116. **HOLLYHOCK, CHATERS DOUBLE WHITE (P)**.—**Packet, 10c.**
120. **LARKSPUR (Delphinium) (A)**.—One of the most showy and useful plants, possessing almost every requisite for adornment of the garden. **Packet, 5c.**
121. **LARKSPUR EMPEROR (P)**.—Of symmetrical bushy habit, with a profusion of brilliant dark-blue, red-striped and tri-colored flowers. **Packet, 5c.**

LOBELIA

A beautiful and popular flower, very desirable for pot culture, beds or hanging baskets because of its trailing habits. Grows easily and does well in beds and rockeries. Bears a profusion of blue and white flowers.

122. **MIXED VARIETIES (A)**.—**Packet, 5 cents.**

123. **CRYSTAL PALACE COMPACTA (A)**.—Rich deep blue. The finest for bedding. **Packet, 10c.**

125. **MARIGOLD, DOUBLE AFRICAN (A)**.—A well-known free-flowering plant, of easy culture, with rich and beautiful double various-colored flowers. **Packet, 5c.**

126. **MARIGOLD, DOUBLE FRENCH (A)**.—Of compact habit, with numerous bright, showy flowers. Very fine. **Packet, 5c.**

130. **MARVEL OF PERU, or FOUR O'CLOCK (Mirabilis Jalapa) (A)**.—Very pretty annual of vigorous growth. The flowers are brilliant, singularly mixed and varied on the same plant. Two feet. **Packet, 5c.**

131. **MATTHIOLA BICOENIS (A)**.—Flowers dull purplish-lilac, but well worth growing for the charming fragrance which it emits during the evening. **Packet, 5c.**

133. **MESEMBRYANTHEMUM CRYSTALLINUM (Ice Plant) (A)**.—Dwarf spreading plants of great beauty, blooming the entire summer, succeeding best in dry, sandy or loamy soil, and in a warm locality. Half-hardy annuals. **Packet, 5c.**

134. **MIMULUS**.—The beautiful Monkey Flower. **Packet, 5c.**
- MIGNONETTE**.—The delightful fragrance of the Mignonette makes it a universal favorite. Sow seed in the fall for early blossoms in the spring. Valuable for potting, bedding or for border.

135. **MIGNONETTE—SWEET (Reseda Odorata)**.—A well-known and universal garden favorite, and one that requires no extra instructions for growing. Hardy annuals. **Packet, 5c. Oz., 15c.**

136. **MIGNONETTE—PYRAMIDAL**.—(Large flowered).—The largest flowered of all Mignonettes. Annual. **Packet, 5c. Oz., 15c.**

137. **MACHET**.—True dwarf-growing variety; enormous spikes of beautiful, deep reddish crimson flowers; height, 1 foot. **Per Pkt., 10c. ¼ Oz., 20c. Oz., 50c.**

138. **MIGNONETTE VICTORIA (A)**.—A splendid new, compact-growing variety of dense pyramidal, growing about six inches high. The flowers are of a brilliant red, and are suitable for pot or garden. **Packet, 10c.**

139. **ALLEN'S DEFIANCE (A)**.—When grown under favorable conditions and with proper care, spikes will not only be of remarkable size—from 12 to 15 inches long—but deliciously fragrant; much more so than any other variety. **Packet, 10c. ¼ Oz., 15c.**

140. **GOLDEN MACHET MIGNONETTE (A)**.—Distinct new variety of the well-known Machet of the same compact and robust habit, but differing from the type by its massive spikes of golden-yellow blossoms. **Packet, 5c. ¼ Oz., 10c.**



NASTURTIUM.

NASTURTIUM

142. **DWARF MIXED**.—The dwarf variety of Nasturtium is among the most useful and beautiful of annuals for bedding, massing, etc., owing to their compact growth, richness of color and profusion of bloom; mixed colors. **Packet, 5c. Oz., 10c.**

143. **DWARF NASTURTIUM—AURORA**.—Blush white and salmon, blotched with garnet. **Packet, 5c. Oz., 15c.**

144. **DWARF NASTURTIUM—BEAUTY**.—Bright scarlet, striped with yellow. **Packet, 5c. Oz., 15c.**

145. **DWARF NASTURTIUM (Empress of India)**.—Very dark foliage, with deep crimson flowers. **Packet, 5c. Oz., 20c.**

146. **DWARF NASTURTIUM (Golden King)**.—Brilliant yellow. **Packet, 5c. Oz., 15c.**

147. **DWARF NASTURTIUM (King of Tom Thumb)**.—Brilliant yellow flowers, blotched with maroon. **Packet, 5c. Oz., 15c.**

148. **DWARF NASTURTIUM (Ruby King)**.—Light ruby red. **Packet, 5c. Oz., 15c.**

149. **DWARF NASTURTIUM (Cloth of Gold)**.—Golden yellow foliage, light scarlet flowers. **Packet, 5c. Oz., 15c.**

150. **KING THEODORE—DWARF**.—Scarlet maroon. Black-brown foliage. **Packet, 5c. Oz., 15c.**

310. **TALL MIXED**.—Elegant, profuse flowering plants, constantly growing in favor for verandas, trellis, etc. The seed pods can be gathered while green and tender for pickling. **Packet, 5c. Oz., 10c.**

OXALIS

153. **OXALIS**.—Very pretty, herbaceous plants, with richly-colored blossoms. They thrive well in a mixture of loam and sand. Desirable for greenhouse decoration, rock work or baskets. Half-hardy perennial. **Packet, 10c.**

PANSIES--ANNUALS

155. **HEARTSEASE**.

Choice mixed. An old but universally admired plant, producing an endless variety of color, marking and texture. They may be treated as annuals, as they flower the first season from seed; 6-inch. **Pkt., 5c. ¼ Oz., 25c.**

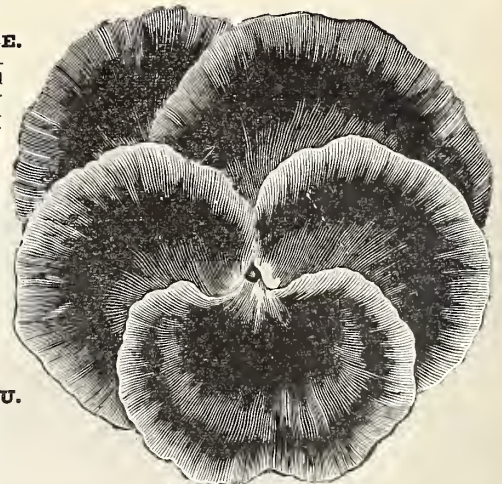
156. **GIANT TRIMARDEAU**.

Remarkable for the extra large size of the flower and an endless variety of beautiful shades. **Packet, 10c. ¼ Oz., 50c.**

157. **G. & T. CO'S EXTRA MIXED**.

This mixture, containing the finest blotched varieties, is grown and selected with special care, and has given the most satisfactory results to both florists and amateurs in the past. **Pkt., 15c. Two Pkts., 25c. ¼ Oz., 75c.**

158. **PANSY (Bugnot's Exhibition)**.—A celebrated strain of extra large size, beautiful colors, handsome broad blotches, and finely penciled with stripes of delicate hue. The ground colors are generally dark, which, with light penciling and blotches, make a magnificent flower. They are a small seeder. **Packet, 25c.**



PANSIES.

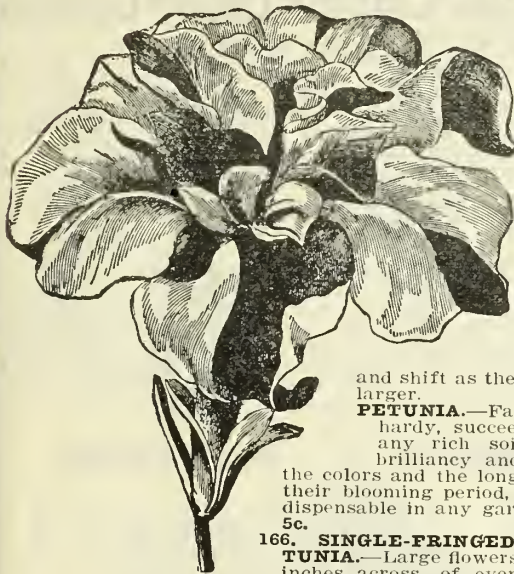


DEFIANCE
MIGNONETTE.

THE BEST FLOWER SEEDS

Ten 5c. Papers mailed for 25cts.,
or Four 10c. Papers for 25cts.

PETUNIAS (ANNUALS)



Sow seed early in spring, scatter thinly on an even surface and barely cover the seed with sand. If intended for the open ground, prick out into a frame to be kept till planting-out time. If for pots, put singly into small pots in strong rich soil mixed with sand

and shift as the plants grow larger.

PETUNIA.—Favorite, half-hardy, succeeding well in any rich soil. For the brilliancy and variety of the colors and the long duration of their blooming period, they are indispensable in any garden. **Packet, 5c.**

166. SINGLE-FRINGED MIXED PETUNIA.—Large flowers, four to five inches across, of every hue, each flower being beautifully fringed. **Packet, 25c.**

167. DOUBLE PETUNIA.—About 30 per cent. will produce double flowers. **Packet, 25c.**

168. PETUNIA—Double-Fringed Mixed.—The flowers of this sort being double, together with being fringed, are very beautiful. **Packet, 25c.**

PHLOX DRUMMOND

175. PHLOX DRUMMONDII (A).—A most brilliant and beautiful hardy annual, about one foot high, well adapted for bedding, making a dazzling show through the whole season. It succeeds well on almost any soil. **Packet, 5c.**

176. PHLOX DRUMMONDII—(Nana Compacta) (A).—Very fine mixed. This new strain is of dwarf, compact habit, and makes desirable pot plants; also excellent for ribbon lines and massing. **Packet, 10c.**



PINKS (Dianthus)

Seed may be sown in the open ground in spring after danger of frost is past in the place where the plants are wanted to bloom. Use well-pulverized soil, preferably sandy loam. Make the rows one foot to 15 inches apart and cover the seed with one-fourth inch of fine soil, firmly pressed down. When 2 inches high, thin 6 to 8 inches apart.

180. PINK CARNATION, or PICOTEE. (Choicest Double Mixed *Dianthus Caryophyllus*).—Carnation and Picotee Pinks are generally favorites for their delicious fragrance, richness of colors and profuse bloom. Perennial. **Packet, 10c.**

181. PINK CARNATION (Riviera Market, or Gilland).—A magnificent variety of colors and shades, which will thrive either in open ground or pots. **Packet, 25c.**

182. PINK CARNATION (Marguerite) (P).—Profuse bloomers, producing very double flowers of all shades. Will bloom all summer until frost, or indoors in winter in pots. **Packet, 10c.**

185. PINK—CHINA (Dianthus Chinensis) (P).—Free bloomers, and a general favorite for bouquets; also a useful bedding plant. **Packet, 5c.**

188. PINK—HEDEWIGH (P).—Beautiful double flowers in a great variety of colors, with fringed white edges. **Packet, 5c.**

POPPY (PAPAVER)

These well-know hardy annuals flower in great profusion throughout the summer. As early in spring as ground can be worked sow the seed where flowers are to bloom, as the annual varieties do not bear transplanting. Pulverized soil, preferably light sandy loam, should be used. Make the rows 15 inches apart and cover seed with one-fourth inch of fine soil, firmly pressed down. When 2 inches high, thin from 6 inches to one foot. To insure continuous bloom during a long season the flowers should be cut regularly and no seed pods allowed to form.

200. POPPY-CARNATION (Papaver) (A).—A showy and easily cultivated hardy annual, with large brilliant colored flowers, growing freely in any garden soil. **Packet, 5c.**

201. POPPY—PEONY FLOWERED (A).—A magnificent species, large, showy, double globule flowers, resembling Peonies in shape. **Packet, 5c.**

202. SHIRLEY POPPY (A).—These beautiful Poppies are generally single or semi-double. The colors, extending from one extreme to the other, are so varied that scarcely two are alike, while many are striped and blotched. The blooms, if cut when young, will stand for two or three days. **Packet, 5c.**

203. TULIP POPPY (A).—A magnificent species. The plants attain a height of 14 to 16 inches, and produce from about 50 to 60 flowers of the brightest scarlet. **Packet, 5c.**

204. ICELAND POPPIES, MIXED (A).—Although hardy perennials, these Poppies bloom the first season from spring-sown seed. The fragrant, elegant, crushed satin-like flowers are produced in never-ceasing succession from the beginning of June to October. **Packet, 5c.**

205. POPPY—IRRESISTIBLE (A).—A rare and beautiful Poppy, with immense flowers. Color, an exquisite rose. **Packet, 5c.**

195. PORTULACA (Mexican Rose) (A).—One of the finest hardy annual plants, of easy culture, thriving best in rather rich, light loam or sandy soil; the single-flowering varieties are large and brilliant, of the richest shades of color, and produced throughout the summer in great profusion; fine for massing in beds or edgings of rock work. **Packet, 5c.**

196. DOUBLE PORTULACA (A). **Packet, 10c.**

210. ENGLISH PRIMROSE (Primula Vulgaris) (P).—No collection of spring flowers is complete without a few of these charming little plants. A little covering in the late fall will protect them from the severe weather of winter, and the great number of flowers produced will more than repay you the extra trouble. They are not as generally grown as they should be. **Packet, 10c.**

211. CHINESE PRIMROSE (Primula Fringed) (A).—This variety is much prettier than the English, being fringed and of the most beautiful colors. They differ from each other like the double and single Petunias. **Packet, 25c.**

212. RICINUS, CAMBOGIENSIS (A).—Ornamental plants of stately growth and picturesque foliage; fine for lawns, massing or center plants for ribbon beds; half-hardy annuals. **Packet, 5c.**

212½. RICINUS ZANZIBARIENSIS, MIXED (A).—Their immense leaves and gigantic plants exceed all other varieties. **Packet, 5c.**

215. SCARLET SAGE (Salvia Splendens) (A).—Tall, erect, green foliage. A favorite greenhouse and bedding plant, bearing long spikes of flowers in great profusion from July to October; half-hardy perennial, blooming the first year from seed. Three feet. **Packet, 5c. ¼ Oz., 45c.**



Salvia Splendens.

216. SCARLET SAGE—CLARA BEDMAN (Bonfire) (A).—Dwarf, green foliage, flowers close to the ground. The finest Salvia ever introduced. **Pkt., 5c. ¼ Oz., 65c.**

213. SCABIOSA—GRANDIFLORA (P).—An old-fashioned, but most attractive flower. Its great abundance and long succession of richly colored, fragrant blossoms on long stems make it one of the most useful decorative plants of the garden. Seed may be sown in place as soon as ground can be worked; or, for earlier blooming, sow in hotbed early in spring and transplant one and one-half feet apart. Hardy annual; 12 to 18 inches high. **Packet, 10c.**

HIGH-GRADE FLOWER SEEDS

Ten 5c. Papers mailed for 25 cts., or
Four 10c. Papers for 25c.

220. **SENSITIVE PLANT (Mimosa)**.—Curious and interesting plants, with pinkish-white flowers; the leaves close in and droop when touched or shaken; tender annual. Packet, 5 cents.

230. **TEN WEEKS STOCKS (Gilliflower)**.—A world-wide favorite, brilliant and varied in color, equally well-adapted for massing, bedding, edging or pot culture. Very profuse bloomers. Should be grown in rich soil. Packet, 5c.

231. **STOCKS—SNOWFLAKE IMPROVED**.—A beautiful dwarf-growing variety; very large, double, snow-white flowers. Packet, 10 cents.

237. **SWEET ROCKET (Hesperis) (A)**.—Very pleasing, early spring flowering, profuse blooming plants, with fragrant flowers, growing freely in any light, rich soil. Packet, 5 cents.

240. **SWEET WILLIAM (Dianthus Barbatus) (P)**.—A well-known free-flowering, popular favorite; the great improvements upon the old varieties made within the last few years have rendered it still more desirable. Hardy perennials. Packet, 5c.

243. **SWEET VIOLET (A)**.—Deservedly much in demand, because of their profusion of bloom and delicate, sweet odor. Packet, 10c.

244. **TORENIA (A)**.—Charming plants for pot-culture, vases or hanging baskets. They succeed well also in the open ground in summer, and are very attractive in beds or masses. Packet, 5c.

245. **MAMMOTH VERBENA (A)**.—One of the most popular and useful bedding plants. Verbenas delight in sunny situation, rich soil and thorough cultivation. Packet, 5c. One-half ounce, 25c.

VINCA (Periwinkle).—Very attractive bushy plants, with glossy green foliage, producing in abundance handsome round or salver shaped single flowers, suitable either for culture in pots or boxes or for summer bedding and borders.

250. **VINCA ROSA (A)**.—Rose with dark eye. Packet, 5c.

251. **VINCA ALBA (A)**.—White, with crimson eye. Packet, 5 cents.

255. **WALLFLOWER, DOUBLE (A)**.—Well-known, deliciously fragrant plants, with large spikes of double flowers, similar to the Gilliflower. Succeed in light, rich soil, in a moist atmosphere. Perennials. Packet, 10c.

ZINNIA

Very showy plants with large, double imbricated flowers, which, when fully expanded, might easily be mistaken for dwarf dahlias. There is much satisfaction in a bed of Zinnias, for when nearly every other flower has been killed by frost, this plant is still in full bloom more abundantly throughout the season. Sow the seed early in spring, in open ground, and transplant to one and one-half feet apart in good, rich soil. Half-hardy annual; about eighteen inches high.

258. **ZINNIA ELEGANS (Youth and old Age) (A)**.—This is one of the most brilliant of annuals, and has long been a general favorite. The flowers are large, finely formed, in great variety of colors, and continue to bloom the entire season. Half-hardy annuals. Packet, 5 cents.

259. **ZINNIAS CURLED AND CRESTED (A)**.—New, odd and superb. Petals twisted, curled and crested into fantastic contortions and graceful forms. A magnificent variety of colors. Packet, 5 cents.

260. **ZINNIA—DOUBLE POMPON (A)**.—Long, cone-shaped flowers, very fine. Packet, 5 cents.

261. **ZINNIA—ZEBRA FLOWERED (A)**.—Double striped, profuse bearer of fine double flowers in many colors. Packet, 5 cents.



General List of CLIMBERS

270. **BALSAM APPLE (Momordica) (A)**.—Very curious trailing vines, with ornamental foliage; fruit golden yellow; when ripe, opens, showing the seeds and its brilliant carmine interior. Packet, 5c. Ounce, 30c.

272. **BALLOON VINE (Love in a Puff) (A)**.—A rapid growing plant; succeeds best in light soil and warm situation; flowers white; half-hardy annual. Packet, 5c.

275. **CANARY BIRD FLOWER (Peregrinum) (A)**.—With yellow, canary-like flowers; very ornamental and beautiful foliage; half-hardy. Packet, 5c.

276. **COBEEA SCANDENS (P)**.—A beautiful, rapid-growing climber, with handsome foliage and large bell-shaped flowers; blue; half-hardy perennial; grows 20 to 30 feet high. Packet, 10c. Ounce, 40c.

278. **CYPRESS VINE, RED (Ipomea Quamoclit) (A)**.—One of our most popular vines, with very delicate fern-like foliage, and masses of beautiful, small, star-shaped flowers. Sow last of May; 15 feet. Packet, 5c.

279. **CYPRESS VINE, WHITE (A)**.—Usually grown with the red, making a handsome effect. Packet, 5c.

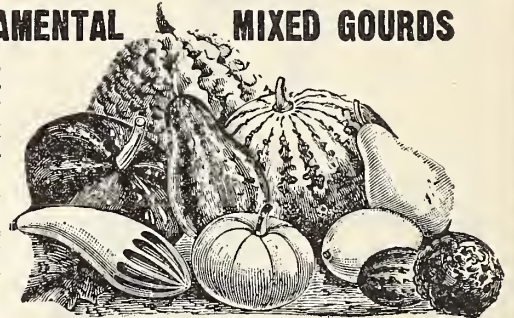
282. **MAURANDIA (Barclayana) (A)**.—These charming climbers cannot be too highly praised for their beautiful flowers and foliage. They are admirably adapted for hanging baskets, vases or trellis work. Packet, 5c.

ORNAMENTAL MIXED GOURDS

GOURDS,

Ornamental.

Rapid growing, annual climber, very useful for covering arbors, trellises, etc. The fruits are curiously shaped and often highly colored.



285. **MIXED GOURD (Cucurbita) (A)**.—

286. **NEST EGG GOURD (A)**.—White fruit, shaped like an egg. Used as a substitute for nest eggs. Packet, 5c.

287. **DISH CLOTH GOURD (A)**.—Packet, 5c.

288. **DIPPER GOURD (A)**.—Packet, 5c.

290. **MOCK ORANGE (P)**.—Fruit shaped like an orange. Packet, 5c.

295. **HEAVENLY BLUE IPOMEA (A)**.—The flowers are in large, airy clusters, and of that lovely blue so rarely seen. Flowers four to five inches across. Packet, 5c.

300. **MORNING GLORY (Convolvulus Major)**.—One of the most free-flowering and rapidly-growing plants in cultivation, thriving in almost any situation. The beauty and delicacy of their brilliant flowers are unsurpassed; hardy annuals. Packet, 5c.

302. **GIANT JAPANESE MORNING GLORY (See Cut)**.—This plant has been developed to such a state of perfection

that it now produces flowers of immense size and almost endless variety of color and markings. Some of the flowers are brilliant red, or rich blue self-colored; others are equally brilliant, with broad margins of clear white. Not only are the flowers varied, but the foliage is equally so; some of it comes plain green, and part is mottled with white and shades of yellow or yellowish green.

Packet, 10 cents.

305. **MOON FLOWER (Ipomoea Noctiflora)**.—Charming and popular blooming climbers; of rapid growth and showy effects; warm, rich soil, with a sunny exposure, suits them. Packet, 5 cents.

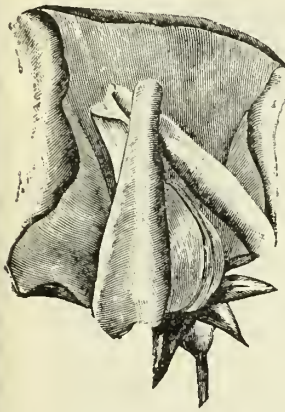
162. **PASSION FLOWER (Southern Beauty)**.—A most interesting and well-known order of climbers, bearing singularly beautiful flowers. Packet, 10 cents.

320. **SCARLET RUNNERS**.—Very handsome climbing Beans, with bright scarlet flowers. Packet, 5 cents.

326. **SMILAX**.—Charming climber for greenhouses or window gardens. Packet, 5 cents.

SWEET PEAS

CULTURE



Sweet Peas should be sown in drills as early as possible in spring in rich, friable soil. Prepare the bed thoroughly, working in a quantity of well-rotted manure if it can be done, making a furrow 4 to 6 inches deep. In this sow the seed and cover 2 inches deep. As soon as the plants begin to show through, fill in the furrow. This will secure a deep planting without the bad effect of deep covering of the seed at first, and so enable the plant to bloom continuously through the heat of summer. As fast as the flowers come into full bloom or fade they should be cut off, for if the pods are allowed to form the plants will stop blooming.

Owing to a very short crop of Sweet Peas, these prices are subject to change without notice.

Pkt., 5c.; Oz., 10c.; ¼ lb., 35c.; ½ lb., 65c.; Lb., \$1.25.

Postage, 8c. per lb. extra.

Grandiflora Sweet Peas

- 350. **AGNES JOHNSON.**—Light, pink shaded and buff.
- 351. **AMERICA.**—Bright red and white striped.
- 352. **APPLE BLOSSOM.**—Crimson, pink and white shaded.
- 353. **AURORA.**—White, with stripes and flakes of orange-pink.
- 354. **BLACK KNIGHT.**—Glossy deep maroon, open form.
- 355. **BLANCHE BURPEE.**—Pure white.
- 356. **BLANCHE FERRY.**—Standard bright crimson-rose; wings white, tinged with pink.
- 357. **BOLTON'S PINK.**—Orange or salmon-pink, veined with rose.
- 358. **CAPTAIN OF THE BLUES.**—Standard almost clear purple; wings blue, shaded and tinged purple.
- 359. **COCCINEA.**—Pure cerise; self-color.
- 360. **COUNTESS OF RADNOR.**—Light mauve standard; lavender wings.
- 361. **DAINTY.**—Pure white, edged with light pink and standard, and wings almost true white, with pink edges.
- 362. **EMILY ECKFORD.**—Rose-purple; self-colored, changing to rose-lilac standard, and lilac wings.
- 363. **EMILY HENDERSON.**—Pure white. A vigorous grower.
- 364. **GORGEOUS.**—Standard scarlet orange; wings bright rose, strongly tinged with orange.
- 365. **HELEN PIERCE.**—Pure white; veined, mottled and marbled with bright blue.
- 366. **HON. MRS. E. KENYON.**—Primrose. Large semi-hooded form.
- 367. **JANET SCOTT.**—Bright pink and buff.
- 368. **KATHERINE TRACY.**—Standard soft pink; wings lighter tone; almost self-color.
- 369. **KING EDWARD VII.**—Bright red or crimson scarlet.
- 370. **LOTTIE ECKFORD.**—White, shaded lilac and blue.
- 371. **LOVELY.**—Standard, and wings deep pink, shading lighter at edges.
- 372. **MRS. ECKFORD.**—Light primrose; self-colored.
- 373. **SADIE BURPEE.**—Blossom pure white, and bud showing tint of buff and pink.
- 374. **PRIMA DONNA.**—Fine pink; self-colored.
- 375. **QUEEN OF SPAIN.**—Soft buff pink, with curled standards.
- 376. **STELLA MORSE.**—Buff, tinted pink.

G. & T. Co.'s Extra Fine Mixed

377. **G. & T. CO.'S EXTRA FINE MIXED.**—Consists of the very choicest varieties mixed in the newest colors and shades.

378. **ECKFORD'S FINE MIXED.**—One of the finest mixtures of the Eckford varieties.

SPENCER BEST NEW MIXED SWEET PEAS

379. **SPENCER BEST NEW MIXED SWEET PEAS.**—A special mixture of the Spencer type. 10c. per oz.; ¼ lb., 40c.; 1 lb., \$1.50.

NEW CHRISTMAS, OR WINTER FLOWERING SWEET PEAS

Price, 15c. per oz.; ¼ lb., 50c.; 1 lb., \$1.75.

- 380. **BURPEE'S EARLIEST WHITE.**—Very early; hooded form.
- 381. **CHRISTMAS PINK.**—Pink and white.
- 382. **EARLIEST OF ALL.**—Bright rose standard, with white wings.
- 383. **EX. EY. BLANCHE FERRY.**—Pink and white.
- 384. **FLORENCE DENZER.**—White.
- 385. **MRS. ALEX. WALLACE.**—Pinkish lavender; very early.
- 386. **MRS. E. WILDE.**—Rosy crimson.
- 387. **MRS. F. J. DOLANSKY.**—Pink.
- 388. **MONT BLANC.**—White; early; open form.
- 389. **WALCKUNG.**—White.

PLANT DEPARTMENT

We do not deliver plants free by express; the purchaser pays the charges, and unless instructed to the contrary, orders will be forwarded by express.
Orders for plants will be forwarded at the proper time for planting, according to variety.
Cash must accompany all orders. We do not ship plants C. O. D.

VEGETABLE PLANTS

BEEF.—Eclipse, Crosby, Egyptian. 40c. per 100; \$2.00 per 1000. By express, not prepaid. Add 10c. per 100 if by mail. Special prices on 10,000 lots.

BRUSSELS SPROUTS.—50c. per 100; \$3.50 per 1000. By express, not prepaid. Add 10c. per 100 if by mail.

CABBAGE.—All the leading varieties. From December 1 to May 1, frame grown. 50c. per 100; \$2.00 per 500; \$4.00 per 1000. Field grown from May 1 to December 1. 30c. per 100; \$1.25 per 500; \$1.75 per 1000. By express, not prepaid. Add 10c. per 100 if by mail. Special prices in 10,000 lots.

CAULIFLOWER.—Early Snowball, 75c. per 100; \$4.50 per 1000. By express, not prepaid. Add 10c. per 100 if by mail.

CELERY.—All the leading varieties. 50c. per 100; \$1.50 per 500; \$3.00 per 1000. By express, not prepaid. Add 10c. if by mail. Special prices in 10,000 lots.

EGG PLANT.—Imp. Baltimore from seed bed. 50c. per 100; \$4.00 per 1000. Pot grown, 60c. per dozen; \$5.00 per 100. By express, not prepaid. Add 10c. per 100 if by mail.

KOHLRABI.—Early White Vienna. 50c. per 100; \$3.00 per 1000. By express, not prepaid. Add 10c. per 100 if by mail.

LETTUCE.—Ready at all seasons. All the leading varieties. 30c. per 100; \$1.25 per 500; \$2.00 per 1000. By express, not prepaid. Add 10c. per 100 if by mail. Special prices in large quantities.

PARSLEY.—For fall planting. Large, strong roots. \$1.00 per 100; \$4.00 per 1000. By express, not prepaid. Add 10c. per 100 if by mail.

PEPPER.—All leading varieties at 20c. per doz.; 50c. per 100; \$4.00 per 1000. Chinese Giant at \$1.00 per 100. By express, not prepaid. Add 10c. per 100 if by mail.

SWEET POTATO.—50c. per 100; \$2.00 per 500; \$4.00 per 1000. By express, not prepaid. Add 10c. per 100 if by mail.

TOMATO.—Ready April 1. Seed bed plants of Bonnie Best, Earliana, Chalk's Jewel, Dwarf Champion, Ponderosa and Main Crop Varieties at 50c. per 100; \$2.25 per 500; \$4.00 per 1000. Main crop varieties, Field Grown, ready May 1. 40c. per 100; \$1.50 per 500; \$2.25 per 1000. By express, not prepaid. Add 10c. per 100 if by mail. Special price in quantity.

ALL OF ABOVE SEED BED PLANTS.

IRIS (KAEMPFERI) JAPANESE IRIS

These magnificent Japanese Iris are among the most beautiful of our summer flowering plants.

They commence flowering early in July and continue in bloom for five or six weeks if plentifully supplied with water while growing and flowering.

Each, 15c.; by mail, 20c. Four for 50c.; \$1.25 per dozen; by express, not prepaid.

SPANISH IRIS.

Excellent for pot culture, and are now being grown for cut flowers. Plant in the open ground in autumn and protect slightly during the winter months. Early in April cover the beds with glass, and the flowers will be ready for cutting in May. Per clump, 10c.; per dozen clumps, \$1.00. By mail, add 5c. each.



GREENHOUSE POTTED PLANTS

Price, 10c. each; \$1.00 per dozen. By Express not Prepaid.
If wanted by mail, add 3c. each for postage.

ABUTILONS

(Flowering Maple.)

Savitzii.—A beautiful bedding plant; variegated white and green foliage.

ACALYPHA

Macafeana.—A handsome variegated foliage bedding plant, which may be used in connection with Coleus, Crotons or other foliage plants for sub-tropical bedding.

SWEET ALYSSUM

Dwarf Double—for pot plants.
Giant Double—for cutting.

ALTERNANTHERA

A beautiful class of dwarf plants growing only 6 inches high, admirably adapted for forming letters, ribbon lines, edgings or bed.

AMOENA ROSEA.—Rose and carmine.

AUREA NANA.—Yellow, compact.

BRILLIANTISSIMUS.—Rich carmine.

SEYBOLDI.—Broad leaf, yellow.

VERSICOLOR.—Crimson, chocolate and green.

PROSPECT PARK BEDDER.—Dark chocolate red.

CARROLL PARK BEDDER.—Dwarf red.



BEGONIAS

These are now among the most popular plants for beds of summer flowers. Nothing can exceed the brilliancy and richness of their flowers. From the time the first blossom appears until all growth is stopped by frost they are never out of bloom.

GRACILIS, ALBA.—White (Dwarf).

GRACILIA, ROSEA.—Pink (Dwarf).

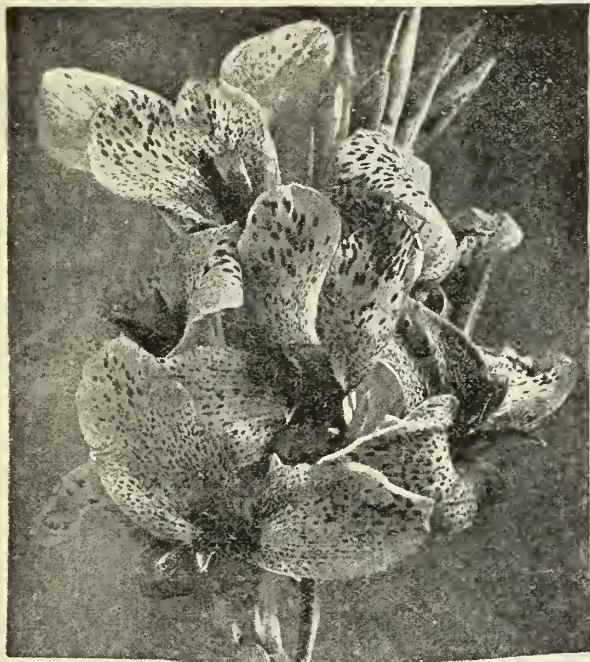
VERNON, ALBA.—White (Tall).

VERNON, ROSEA.—Pink (Tall).

Price on above, 10c. each; \$1.00 per dozen. By express, not prepaid.
If wanted by mail, add 3c. each for postage.

CANNAS

Few flowering plants combine so many fine qualities as the modern Canna—a race of sub-tropical bulbous plants, of most easy culture rapid reproduction and good keeping qualities. The floral world has been astonished by their luxuriance of foliage and gracefulness of bloom, which is of immense size, borne in large masses and trusses, combining in color the brightest and richest shades of yellow, red, orange and scarlet, bringing them to the front as the finest ornamental plant in commerce.



"GLADIATOR"

STANDARD VARIETIES

- ALPHONSE BOUVIER.**—Crimson; about 6 feet high.
- BUTTERCUP.**—Deep buttercup yellow, almost pure, the finest yellow, foliage deep green; about 3 feet high.
- EGANDALE.**—Bronze foliage, currant-red flowers; about 4 feet high.
- FLORENCE VAUGHAN.**—Green foliage, rich golden yellow, dotted red; about 4 feet high.
- JEAN TISSOT.**—An intense brilliant vermilion, with bright orange shading. It is one of the brightest of the large-flowered Cannas, massive green foliage of uniform growth; about 5 feet high.
- J. D. BISELE.**—Bright vermilion scarlet; about 4 feet high.
- LOUISIANA.**—A strong, vigorous growing variety, producing a dense mass of glossy green foliage, large vivid scarlet flowers often measuring seven inches across; about 7 feet high.
- MME. CROZY.**—Bright scarlet, golden border; about 4 feet high.
- PENNSYLVANIA.**—Produces very large flowers of a bright vermilion scarlet, overlaid with an orange sheen, remarkably free flowering; about 6 feet high.
- PRESIDENT MEYERS.**—Rich cherry, carmine, immense trusses of large flowers, bronze foliage; about 4 feet high.
- QUEEN CHARLOTTE.**—Crimson scarlet, canary yellow border; about 3½ feet high.
- RICHARD WALLIS.**—The ideal free-flowering yellow Canna, of a pleasing canary yellow color, having exceptionally large flowers; height, 4½ feet.
- RUBIN.**—One of the best bedding varieties, having ruby-carmine flowers and dark bronzy-green foliage. 3½ feet. Started plants, from 3-inch Pots. . . . 10c. each. . . \$1.00 per doz. Dry Roots. 5c. each.50 per doz. By express, not prepaid. Small quantities of the above plants may be mailed for an additional 3c. each for postage.

MIXED CANNA ROOTS IN SPLENDID VARIETY, OUR SELECTION, 5c. each; per dozen, 35c.; per 100, \$2.75. By express, not prepaid.

FOLIAGE CANNAS

Roots of large growing Foliage Cannas with bronze leaf. The above make beautiful foliage, but do not bloom. Dormant roots at 5c. each. 35c. per dozen. If by mail, add 3c. each extra for postage.

NEWEST VARIETIES

- IMPROVED MONT BLANC**—(New).—Almost pure white. Blossoms produced in great profusion all season. 3½ feet.
- ROSEA GIGANTEA.**—Deep red rose; green foliage; extra large, with single petals measuring 2½ inches across; height about 4 feet.
- WM. SAUNDERS.**—One of the finest Cannas grown, having blooms of rich shining scarlet in great clusters. A strong grower, with rich bronze foliage. Height, 4 feet.
- UNCLE SAM.**—Clear deep orange flowers, borne in great clusters. Rich green foliage; 6 feet.

Potted plants only. Price, 25c.

SELECT VARIETIES

- DR. BUDINGEN.**—Brilliant scarlet, having bronze foliage. Large size; 4 feet.
- FEUERMEER.**—Brilliant fiery scarlet, of medium size. Free flowering; 4 feet.
- GLADIATOR.**—Bright yellow, spotted with crimson; green foliage; a good bloomer; height, 5 feet.
- HIAWATHA.**—Large rosy pink flowers, bordered with clear cerise and having crimped petals; variegated foliage; height, 3 feet.
- KING HUMBERT.**—The broadest-leaved Canna. Bronze in color with orange-scarlet blooms. Giant flowering, taking the lead in size, color and habit. Height, 4 to 5 feet.
- PORTIA.**—Bright cardinal-red; free flowering; dwarf grower.
- VENUS.**—Gay rosy pink, with mottled border of creamy yellow; green foliage and a splendid bloomer. Height, 4 feet.

POTTED PLANTS ONLY.

Price, 15c. each. \$1.75 per dozen.



KING HUMBERT CANNA.

HARDY POMPON CHRYSANTHEMUMS

ASTER VARIETIES

- ASHBURY.**—Sulphur white.
AUSTIN.—Lilac rose, cut petals.
BOHEMIA.—Fine pure yellow.
DUNDEE.—Dark red.
ELDORADO.—Bright golden, open center.
ELKTON.—Light pink, full, large flowers.
FRED J.—Red-orange.
IRENE.—Pure white, shaded flesh.
JULIA LA GRAVERE.—Crimson maroon.
KING HENRY.—Straw white; long stems.
LADY NAYLOR.—White.
MISS JULIA.—Orange-red, turning to yellow.
PRINCE OF WALES.—Best pure white.
QUEEN OF BUL.—Violet-rose.
QUEEN OF WHITE.—Fine creamy white; long stems.
REBECCA.—Delicate apple-blossom pink.
SALEM.—Silver-rose, long quilled.
ST. ILLORIA.—Silver-rose; quilled petals.
ST. ALMO.—Splendid white.
THE HUB.—Fine pure white, open center.
VIOLA.—Rich violet red; small flowers.



SMALL FLOWERING OR BUTTON VARIETIES

- AGALIA.**—Light orange, shaded pink.
ANNA MARY.—Creamy white, shaded pink.
BABY.—Smallest golden yellow.
CERISE QUEEN.—Cerise pink.
DAWN.—Daybreak pink.
ERMINE.—Bright orange scarlet.
EXCELSIOR.—Bright Orange-yellow. Large flowers. Long stems.
FRED PEELE.—Lilac red.
JAMES BOONE.—Pure white.
JEANNETTA.—Silver bronze and rose.
NELLY BLY.—Blush pink.
NELLIE RAINSFORD.—Very dwarf, light pink.

SINGLE VARIETIES

- AARON.**—Bronze scarlet.
ROSY MOEN.—Silver pink.
PROVIDENCE.—Early white.
WALLIS.—Pure yellow.

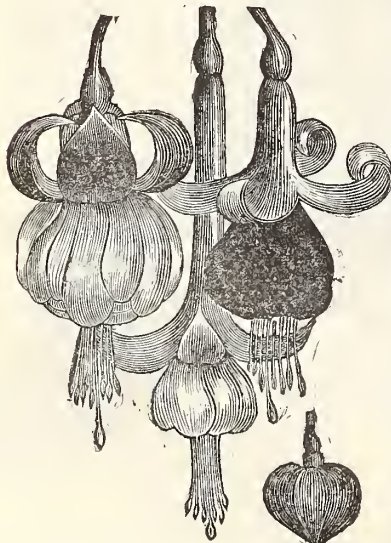
Price, 10c. each; per dozen, 75c.; per 100, \$5.00, by express, not prepaid.

ANEMONE VARIETIES

- EARL.**—Pearl white, silver rose center; dwarf.
FURNESSIA.—Silver white.
LADY OLIVIA.—Beautiful white.
OBAN.—Silver pink, full anemone center.

Price, 10c. each; per dozen, 75c.; per 100, \$5.00, by express, not prepaid.

FUCHSIAS



10c. each; \$1.00 per dozen, by express, not prepaid.

- ANNA NEVILLE.**—Single carmine petals; purple corolla.
BLACK PRINCE.—Single waxy carmine petals; open pale pink corolla.
ELM CITY.—Rich crimson, corolla deep purple and double.
GERBERT.—Curved petals, fiery red, large double corolla, reddish purple, blotched cardinal red.
GOETTINGEN.—Bronze foliage, long cinnabar red flowers, produced in clusters.
LIEUT. MAURITZ.—Double white corolla, scarlet tube and sepals.
MARINKA.—Red flowered.
MINISTER BOUCHER.—Double, large carmine petals, lilac rose corolla.
MINNESOTA.—Tube and petals light pink, corolla violet purple.
MRS. GLADSTONE.—Double white corolla, coral red petals.

HELIOTROPE

- ALBERT DELEAUX.**—Golden foliage, mottled green; flowers deep lavender.
CHIEFTAIN.—Lilac; large trusses, sweet-scented.
MME. DE BLONAY.—Large trusses, nearly pure white.
MME. BRUANT.—Very dark purple.
 10c. each; \$1.00 per dozen, by express, not prepaid.

IVY

- HARDY ENGLISH IVY.**—For cemeteries and walls.
PARLOR OR GERMAN IVY.—A tender climber and the best vine for window gardens at all seasons.
 Price, 10c. each; \$1.00 per dozen, by express, not prepaid.

LANTANAS

An old favorite for bedding or individual plant purposes, but on account of the great improvement in shades in the last few years they are becoming more and more popular.

- A. CLAVEN.**—Primrose pink and sulphur.
A. COOK.—Orange and rose; dwarf, compact habit.
AURORA.—Tall, orange and coppery red.
DELICATISSIMA, or WEEPING.—Lilac lavender.
JAVOL.—Tall; clear, pure white; yellow center.
LEO DEX.—Open orange scarlet; changes to dark crimson.
 Price, 10c. each; \$1.00 per dozen, by express.

VERBENA

- VERBENA.**—Large flowering, in scarlet, pink, white and purple varieties.
LEMON VERBENA.—Used for fragrant foliage.
 Price, 10c. each; \$1.00 per dozen, by express, not prepaid.

DAHLIAS

THE FOLLOWING NAMED VARIETIES
SUPPLIED IN POTTED PLANTS ONLY
(Ready April 15th)

COLLECTION OF CHOICEST VARIETIES FOR 1913



COLLARETTE VARIETIES

PRESIDENT VIGER.—Deep blood red, shading darker toward base of petals, with white collar.

ETENARD DE LYON.—Bright velvety scarlet, collarette is yellow at the base, white at the tips.

GALLIA.—Bright rose, suffused and tipped scarlet, passing to sulphur yellow.

MAURICE RIVOIRE.—Blood red, with pure white collarette.

PRINCE GALLITZEN.—Rich crimson with red-tipped collarette; fern-like foliage.

Price, 15c. each; \$1.50 per dozen.

CLEOPATRA.—Decorative. Rich shade of velvety-crimson maroon.

DELIECE.—Decorative. A beautiful, soft glowing rose-pink; splendid for cutting.

MRS. C. W. BASSETT.—Decorative. Rich, deep, rosy pink.

MRS. CHAS. L. SEYBOLD.—Peony-flowered; bright crimson-pink petals, tipped white.

MISS MINNIE McCULLOCH.—Decorative. Soft yellow, overlaid bronze.

PHOENIX.—Cactus. Dark velvety color, with center of petals striped fiery-red; very large flowers.

RHEINKONIG.—Cactus. An ideal pure white, having flowers 5 to 6 inches in diameter.

SUSAN.—Show. Delicate soft shell-pink; early.

SEQUOIA.—Cactus. Deep saffron yellow, suffused with red.

WM. PIERCE.—Show. Delicate tint of shell pink; very free flowering.

YELLOW DUKE.—Decorative. Fine canary-yellow; one of the best yellow cut varieties.

VIRGINIA MAULE.—Decorative. Delicate tint of shell pink.

Price, 25c each. \$2.50 per dozen.

DOUBLE GIANT FLOWERING

CHAS. LANIER.—Yellow amber, shaded buff.

CUBAN GIANT.—Full round form, dark glowing crimson, shaded maroon.

GETTYSBURG.—A bright, rich, pure scarlet; full round form.

LA FRANCE.—Rose-pink.

MME. VAN DEN DAIL.—Immense size and beautiful form. Color soft shell-pink and deeper markings. Profuse bloomer.

MRS. ROOSEVELT.—Beautiful blush white, shading to soft clear pink; of immense size and substance.

SOUV DE GUSTAVE DOUZON.—When perfect the bloom measures 7 inches across, with some of its petals 3 inches long by 1½ inches wide, and it should be called the king of all. The color is an attractive shade of orange-red flowers of fine and symmetrical form.

Price, 25c. each; 5 for \$1.00; per dozen, \$2.00.

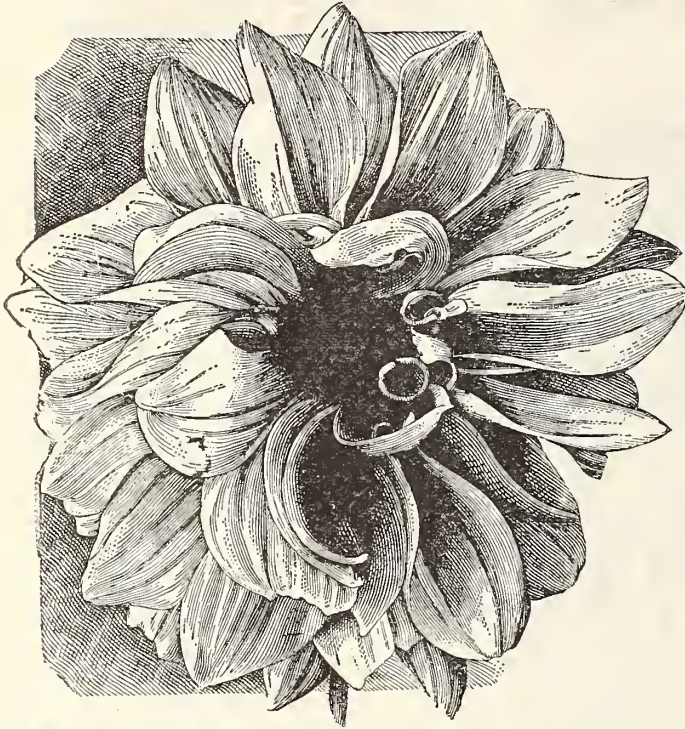
DAHLIA ROOTS

In separate colors, not named varieties. Large clumps, 10c. each; \$1.00 per dozen; by express, not prepaid.

PRICES BY THE DOZEN AND HUNDRED ARE BY EXPRESS, NOT PREPAID.

DAHLIAS —Continued

THE FOLLOWING NAMED VARIETIES SUPPLIED
IN POTTED PLANTS ONLY. (Ready April 15.)



New Peony--Flowered Dahlias

QUEEN WILHELMINA.—Immense fluffy flower of pure white, with yellow center.

GERMANIA.—Brilliant strawberry-red, a very fluffy artistic flower, standing well above the foliage, producing a very gay effect.

GLORY OF BAARN.—Very large loosely arranged flower, of soft hortensia-rose color.

QUEEN EMMA.—A magnificent sort that appears almost artificial; it is of a charming shade of mallow or Hollyhock pink, the inner petals banded with gold.

Price, 25c. each; set of 4 for 75c.

CENTURY DAHLIAS

BIG CHIEF.—Double Century, brilliant cherry-red, margined rich velvety maroon.

FRINGED TWENTIETH CENTURY.—Rosy crimson, with white tips; the petals are deeply cleft, giving it a fringed appearance.

ROSE PINK CENTURY.—Clear rose pink; immense size.

SCARLET CENTURY.—Brilliant dazzling scarlet without shade or blemish, except occasionally a stripe of white or white petal.

ST. GEORGE.—Primrose-yellow.

SENSATION.—A new double Century; vivid vermilion, heavily tipped white.

WHITE CENTURY.—Pure white with yellow disc; large overlapping petals of good texture.

Price, 30c. each; 6 for \$1.50; per dozen, \$3.00.

FANCY VARIETIES

ELOISE.—Distinct variety, full and regular; ground color of bluish pink, shading to white, having each petal margined with deep glowing crimson.

FRANK SMITH.—Dark rich maroon, tipped white.

GENERAL BULLER.—Dark velvety maroon, tipped white.

LUCY FAWCETT.—Canary yellow striped and blotched.

MAID OF KENT.—Variegated crimson and white.

OLYMPIA.—Bright rose pink, marked with rich crimson.

FROGRESS.—Bright rosy lake, penciled and spotted crimson.

PROF. MANSFIELD.—Rich yellow, clear white, tips rosy red.

Price, 10c. each; \$1.00 per dozen.

Standard Cactus Dahlias

BRITANNIA.—Deep salmon flesh.

BRUNHILDE.—Deep rich velvety plum.

COUNTESS OF LONSDALE.—Lustrous salmon pink, blending with amber.

ELSE.—A charming variety having a combination of delicate colors. Base of petals buttercup-yellow, gradually passing to amber; finished with tip of Tyrian rose.

FLORA.—Large, pure white.

H. SHOESMITH.—Brilliant orange-crimson.

INNOCENCE.—Lemon yellow, margined white.

J. H. JACKSON.—Brilliant, very dark crimson maroon.

KRIEMHILDE.—Beautiful clear pink, shading lighter toward the center.

MRS. H. J. JONES.—Margin of petal deep crimson, with broad stripe of white running through the center, blending harmoniously.

MASTER CARL.—Clear orange salmon; of good substance.

PRINCE OF YELLOWS.—Rich canary yellow; one of the best.

WINSOME.—Fine creamy white, of good size and form.

Price, 10c. each; \$1.00 per dozen.

Show Varieties

ARABELLA.—Pale primrose, shaded old rose and lavender.

A. D. LIVONNII.—Seashell pink of perfect form.

BON-TON.—Deep rich garnet.

CAMELIA FLORA.—Snow white; best for cut flowers.

DAVID JOHNSON.—Salmon and rose.

ELECTRIC.—Pinkish lilac.

ETHEL.—Pure yellow, edged white.

EMILY.—Varying from rosy lavender to white.

ORLANDO.—Buff salmon shaded over amber.

PRINCESS VICTORIA.—Pure canary-yellow.

RED HUSSAR.—Intense scarlet-crimson.

TRIUMPH DE SOLFERINO.—Dwarf, bright solferino; very large; Good hedger.

ZEBRA.—White, edged with bright lilac.

Price, 10c. each; \$1.00 per dozen.

Decorative Varieties

BLACK BEAUTY.—A grand deep maroon of distinct form.

CLIFFORD W. BRUTON.—Canary yellow of immense size; very vigorous grower; free bloomer.

FRANK L. BASSETT.—Bright rose purple.

FIRE RAIN.—Rich cardinal red.

GRAND DUKE ALEXIS.—Magnificent flower of large size. Pure white, delicately tinged with pale lavender; quilled petals; finest form and finish.

HENRY PATEICK.—Superb large pure white, petals broad and pointed, long stems.

JACK ROSE.—Rich velvety-crimson; early and long-stemmed.

JEAN CHARMANT.—Pink, lilac at the edge, white toward the center.

JUMBO.—Rich glowing crimson.

LYNDHURST.—Intense rich vivid scarlet.

MRS. HARTONG.—Golden bronze.

PRINCESS VICTORIA LOUISE.—Deep rose pink.

YELLOW LE COLOSSE.—Large double flowers of the brightest yellow.

Price, 10c. each; \$1.00 per dozen; \$6.00 per 100.

Pompon Varieties

ALEWINE.—Flesh, edged lavender pink.

ALLIE MOUREY.—Very fine deep pink.

INDIAN CHIEF.—Crimson.

LITTLE MAY.—Bright golden yellow; free flowering.

LITTLE HERMAN.—Deep red, tipped white.

SNOW CLAD.—Pure white dwarf.

Price, 10c. each; \$1.00 per dozen; \$4.00 per 100.

DAHLIA ROOTS

In separate colors, not named varieties. Large clumps, 10c. each; \$1.00 per dozen; by express, not prepaid.

PRICES BY THE DOZEN AND HUNDRED ARE BY EXPRESS, NOT PREPAID.

GERANIUMS

New Ivy Geraniums

BETTINA.—Semi-double flowers of lilac-white shade. Center of petals blotched with Tyrian rose. Dwarf.

DINA SCALARANDIS.—Double white flowers with slight tinge of lilac on edge of petals. Dwarf.

GORDEN'S GLORY.—Bright scarlet double. Profuse bloomers. Large flowers.

INCOMPARABLE.—Large trusses. Shade, rosy-carmine. Dwarf.

MRS. HAWLEY.—Semi-double. Rose-cerise, with slight magenta shading; dark blotch on upper petals.

RYCROFT'S SURPRISE.—One of the best types. Attractive clear pink color. Semi-dwarf and branching.

Price, 10c. each. \$1.00 per dozen.

New Single Geraniums

CLAIRE ALBANE.—Pure white, large flower, splendid grower.

GABRIEL MONTOYA.—Distinct and striking shade of reddish-purple. Free flowering, robust grower.

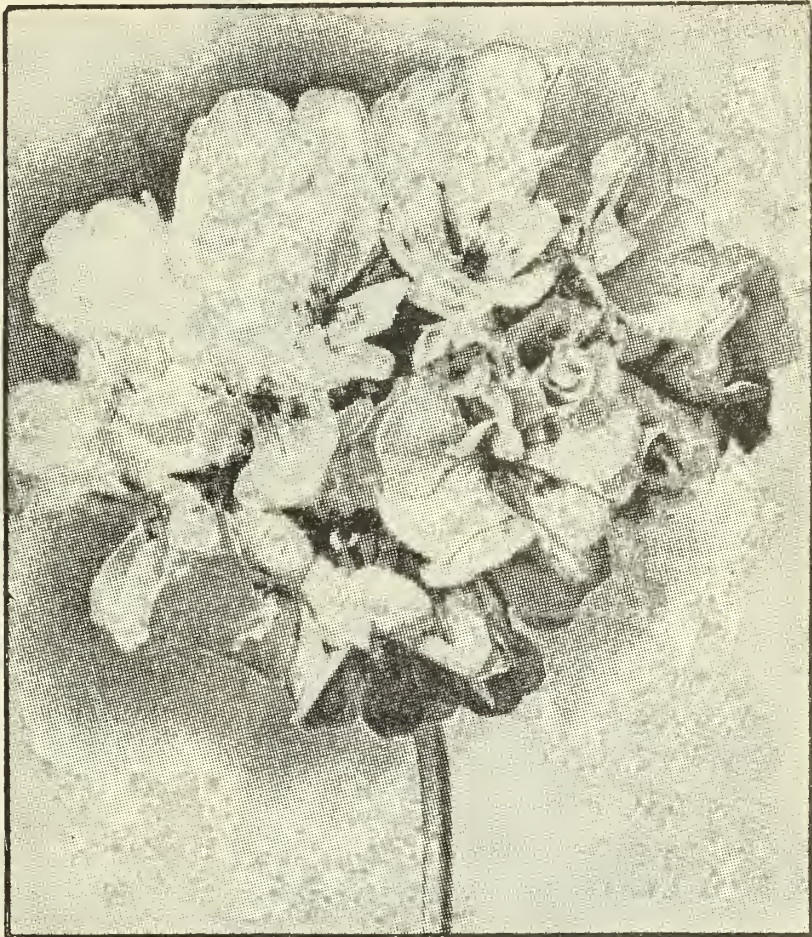
MAXIME KOVALEVSKI.—Fine vigorous grower, large round flowers of brilliant orange.

Mlle. ANATASIE LECADRE.—Large trusses of well-formed flowers, carmine rose, center maculated white.

TEODOR DE WYZEWA.—Clear rich pink, large white center; splendid truss and abundantly produced.

TIPPIN.—Rich glowing scarlet, crimson maroon shading on upper petals.

Price, 20c. each. \$2.00 per dozen.



New Double Varieties

EDMOND BLANC.—Semi-double, deep carmine, violet tinge, white eye.

JAMAIQUE.—Grand, large trusses of enormous semi-double flowers of rich cherry red.

JOSEPH VIANNEY.—Semi-double; salmon-rose, shaded peach.

MAUNA LOA.—Large semi-double flowers, bright fiery red.

SUZANNE DESPRES.—Large semi-double flowers, white, bordered tender rose.

HENRIETTE CORDELET.—Half dwarf and of very compact habit; large semi-double flowers; color, bright rose spotted with white.

Price, 20c. each. \$2.00 per dozen.

Six Best Standard Single Varieties

EUGENE SUE.—Brilliant orange scarlet; base of petals touched snow white.

GRANVILLE.—A beautiful shade of dark rose pink, white blotches on base of upper petals. Strong and compact habit.

MARGUERITE DE LAYRE.—Pure white; free flowering, with enormous trusses. Blooms incessantly.

MRS. E. G. HILL.—The center of each petal is a soft light salmon, bordered with rosy salmon. Semi-dwarf and of exceptionally fine habit.

PAUL CRAMPEL.—Dwarf and vigorous; brilliant scarlet, gigantic trusses.

PRINCESS ALEX.—Carmine lake; producing perfect flowers, and having light green foliage.

Price, 10c. each. \$1.00 per dozen.

Best Standard Double

ALPHONSE RICARD.—Semi-double and dwarf. Color, bright vermilion scarlet.

ANAIS SEGALAS.—Strong, robust grower, with dark, rich foliage and color of a bright salmon carmine, brightening toward the center.

BERTHA DE PRESILLY.—Semi-double; silver rose.

BEAUTE POITEVINE.—Semi-double; clear salmon pink, shading to a bright salmon in the center.

COL. THOMAS.—Deep cardinal red, apparently covered with purplish sheen, deepening toward the center; semi-double flowers. Easy to grow.

GENERAL GRANT.—Bright vermilion scarlet.

JEAN OBERLE.—Grand flowers and excellent trusses; white, center aurora rose, shaded tender salmon.

JULES VASSUER.—Large semi-double flowers, vermilion scarlet, distinct white eye, slight violet shading on upper petals.

MME. LANDRY.—A distinct salmon pink, with slight shading of scarlet. Semi-dwarf, splendid for pot plant or bedding.

MRS. LAWRENCE.—Bright satiny salmon pink, slightly tinged white, the finest of this color. Dwarf and indispensable as a pot plant.

MONSIEUR EMILE DAVID.—Violet rose, upper petals of feathered white at the base. Semi-double.

S. A. NUTT.—Deep scarlet, with maroon shading, double.

Price, 10c. each. \$1.00 per dozen.

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

SCARLET SAGE

Among the most brilliantly colored of garden flowers and extremely useful for bedding; also valuable for pot culture. Blooms are borne in long spikes well above the foliage and are of fiery red, crimson, continuing in flower a long time. Start early in heat and transplant into light soil one to two feet apart. Tender perennials; but bloom the first season; height, two to three feet.

CLARA BEDMAN, OR BONFIRE.—Dwarf. The fire-like appearance of the flowers standing erect among the green foliage gives the plant a most gorgeous appearance. 10c. each; \$1.00 per dozen; \$6.00 per 100.

SALVIA SPLENDENS.—Tall, erect, green foliage. The well-known Salvia. 10c. each; \$1.00 per dozen; \$6.00 per 100.

SILVER SPOT.—Foliage green, spotted clear white; flowers bright scarlet. 10c. each; \$1.00 dozen. By express, not prepaid.



HARDY PHLOX

ALBION.—Large panicles of pure white flowers, with a faint aniline-red eye.

CHAMPS ELYSEE.—Bright rose magenta of an effective shade.

GEO. A. STROHEIN.—Bright scarlet, with crimson-red eye.

JEANNE D'ARC.—A good standard late variety.

LE FOUDRE.—Rich glowing French purple, shading crimson.

R. P. STRUTHERS.—Rosy carmine, with claret-red eye.

SELMA.—Large flowers; pale rose mauve, with claret-red eye.

VESUVIUS.—Pure red, with bright purple eye; dazzling color.

F. G. VON LASSBURG.—Purest and largest white. 10c. each.

\$1.00 per dozen.



HARDY PHLOX

PETUNIA

For outdoor decoration or house culture few plants equal the Petunia in effectiveness. They commence flowering early, and continue a sheet of bloom throughout the whole season until killed by frost; easily cultivated, only requiring a good soil and sunny position. Superb single-fringed mixed. Superb double-fringed mixed.

10c. each; \$1.00 per dozen, by express, not prepaid.

PEONIES

One of the most popular hardy plants grown for lawn and garden decoration. **Double crimson, double white, double rose.** Price, 20c. each; 4 for 75c.; \$2.00 per dozen. Postage extra, 5c. each, if wanted by mail.

COLEUS

NAMED VARIETIES.

BECKWITH GEM.—Scalloped edge, center bright soft crimson maroon, bordered green and gold.

ELDORADO.—Orange yellow, ribbed and blotched very dark maroon.

FIREBRAND.—Bright maroon, flamed and shaded vivid glowing scarlet.

GOLDEN BEDDER.—Standard yellow bedder.

HERO.—Almost jet black, leaves pointed and scalloped.

LORD PALMERSTON.—Dark maroon center, with dark crimson ribs.

QUEEN VICTORIA.—Bright cardinal red, with distinct bright golden border.

VERSCHAFFELTII.—Standard crimson variety.

10c. each. 75c. per doz. \$4.00 per 100, by express, not prepaid.

HARDY WATER LILIES

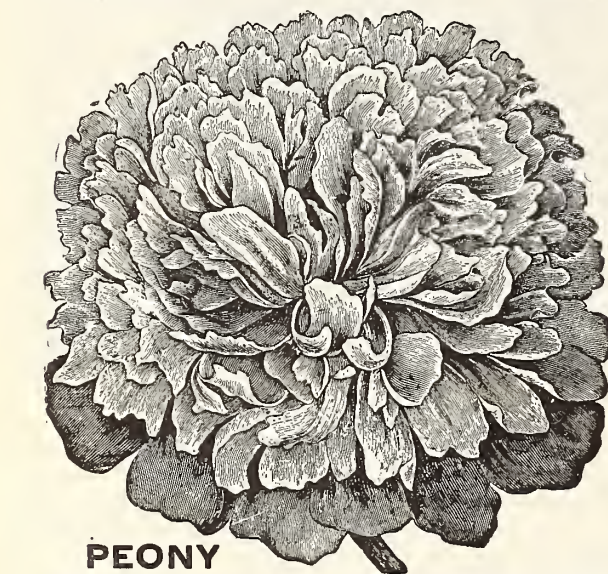
NYPHEA ODORATA GIGANTEA.—A superb variety, and should be in every collection; flowers very large and full. 15c. each; 4 for 50c.; \$1.25 per dozen. Four or more of the above, by express, not prepaid.

YUCCA

A hardy evergreen plant with long, narrow leaves that are bright green the whole year. The flowers are creamy white, bell-shaped, produced on long spikes 3 to 4 feet high. Fine, stately lawn plant.

FILAMENTOSA GLORIOSA (Adam's Needle).

Price, one-year old, 10c. each, postpaid. Extra large plants, 25c. each, by express, not prepaid.



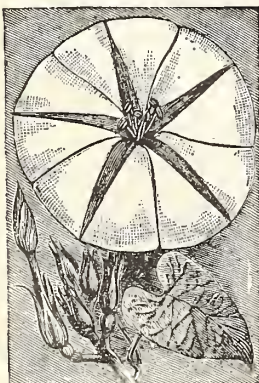
PEONY

Moon Flowers

Grow and bloom with everyone. If planted out in rich ground, where they have full exposure to the sun, they will attain a height of 40 feet by October 15, blooming all summer.

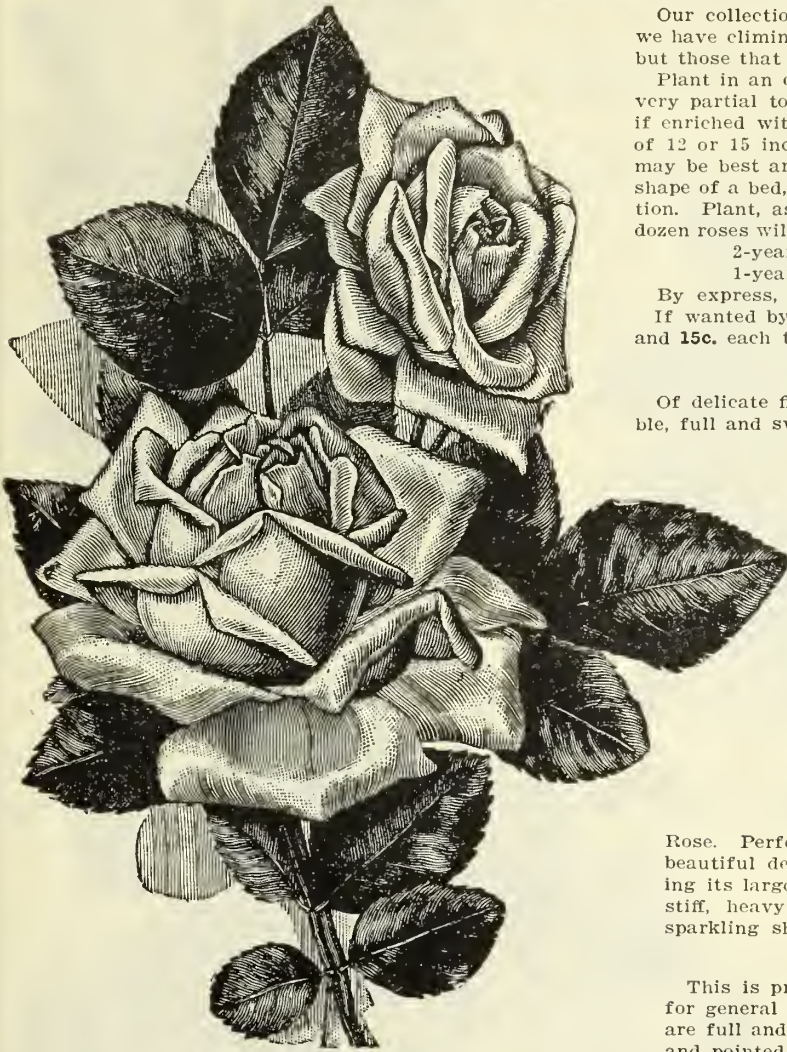
IPOMEA GRANDIFLORA.—White Moonflower. Price, 10c. each; \$1.00 per dozen.

IPOMEA.—Blue Dawn Flower. Price, 10c. each; \$1.00 per dozen.



MOON FLOWER.

CHOICEST ROSES



PINK MAMAN COCHET (Tea.)

Such beauty and exquisite form as is possessed by this variety is well nigh marvelous, and cannot be seen in any other Rose we know. The buds are beautiful; large, full and firm and elegantly pointed; as they expand they show great depth and richness. Flowers superb when open, extra large, perfectly double and of splendid substance. Perfectly hardy in all sections of the country. The color is clear, rich pink, changing to silvery-rose.

WHITE MAMAN COCHET.

Or *Priscilla*—The Charming New White Tea Rose.

It belongs to the Tea class, being a child of that grandest of bedding or outdoor Roses, Maman Cochet, and is hardy in Northern Ohio with slight protection in winter. Its habit is exceedingly strong and upright, like its parent, and it possesses the same large, beautiful healthy foliage, and is a most profuse and constant bloomer. The flowers are of enormous size, remarkably round and full; pure, clear, snowy-white throughout, and are delightfully tea-scented. It is by far the finest and most reliable white bedding Rose yet produced.

AMERICAN BEAUTY (Hybrid.)

This variety has been rightly described as an ever-blooming hybrid perpetual. The flowers are very large and double; color, a deep rich rose. The fragrance is delightful.

Our collection of Roses is second to none in the country, as we have eliminated all undesirable sorts and are offering nothing but those that make fine flowers and are free bloomers.

Plant in an open, airy situation unshaded by trees. Roses are very partial to clay loam, but will do well in any ordinary soil if enriched with bone. Dig the soil up thoroughly to the depth of 12 or 15 inches, as rose roots penetrate deeply. Bush Roses may be best arranged together in beds or borders. The size and shape of a bed, wherever planted, should be made to fit the situation. Plant, as a rule, about 18 inches apart; for example, one dozen roses will nicely fill a bed eight feet long by three feet wide.

2-year-old roots, 40c. each; \$4.50 per dozen.

1-year-old roots, 20c. each; \$2.25 per dozen.

By express, not prepaid.

If wanted by mail, add 8c. each to price of one-year-old roots, and 15c. each to price of two-year-old roots for postage.

CAPTAIN CHRISTY (Hybrid.)

Of delicate flesh color, rosy center. Flowers extra large, double, full and sweetly scented.

MY MARYLAND (Hybrid.)

A new seedling, particularly good for winter forcing. The color is a soft salmon-pink, lighting up beautifully as the flowers expand. It is of splendid growth, sturdy and healthy, with large foliage, and delightfully perfumed.

RHEA REID.

In this new American variety we have a decided acquisition—a rose of the type of the American Beauty, but of the easiest culture. It never mildews or black-spots, and opens its large flowers perfectly under all weather conditions. In color it varies with the temperature—in summer a bright cherry-rose, while in winter it is a rich crimson-scarlet.

KILLARNEY.

New, hardy, ever-blooming Irish Hybrid Tea Rose. Perfectly hardy; makes a strong, upright bush, with beautiful deep bronze green foliage. Is free-flowering, bearing its large, long-pointed buds and massive flowers on long, stiff, heavy shoots; an exquisite shade of deep, brilliant, sparkling shell-pink. Has a delightful tea fragrance.

HELEN GOULD (Tea.)

This is probably the most beautiful and satisfactory Rose for general planting ever introduced in America. The flowers are full and perfectly double, the buds beautifully made, long and pointed. The color of a ripe, red watermelon.

ULRICH BRUNNEE.

Bright cherry-red; flowers large and full; a good, strong grower and always does well.

VICK'S CAPRICE.

This is the only hardy Rose that has any variegation. It is a vigorous grower, and bears large and fragrant flowers of bright rose, distinctly striped with a rich crimson.

ETOILE DE FRANCE.

In this new French variety we have a most valuable addition to our collection of Hardy Hybrid Tea Bedding Roses. It is a strong, vigorous grower, with good dark foliage and flowers which are full and double and as beautiful in the bud as in the full bloom flower, and borne on strong, upright shoots in the greatest profusion. In color it is of a rich, velvety-crimson with vivid cerise-red center.

METEOR (Hybrid Tea.)

A velvety-red ever-blooming Rose, of the deepest glowing crimson. As fine as a Hybrid; flower of medium size, very double, and petals slightly recurving. A beautiful open Rose, a free bloomer, and promising well as a pot Rose. It has no tinge of violet or purple to mar its beauty. It promises to be a reliable ever-blooming Rose, free from bad qualities.

ROSES CONTINUED

RICHMOND

It is as free blooming as Bridesmaid or Golden Gate, and its scarlet-crimson flowers are borne on fine long stems, which makes it specially valuable for cutting purposes. It is a strong competitor of Liberty and Meteor for forcing.

MAGNA CHARTA

A splendid Rose; extra large, full flowers, very double; of fine form, and sweet; color, clear rosy red, beautifully flushed with violet crimson; a sure and profuse bloomer; one of the hardiest and best for general planting.

PAUL NEYRON

Probably the largest and finest Rose; bright shining pink, clear and beautiful; very double and full; finely scented; blooms the first season and all summer.

LA FRANCE (Hybrid Tea)

No variety can surpass it in delicate coloring—silvery-rose shades, with pink. It has a satin sheen over all its petals.

ETOILE DE LYON (Star of Lyon, Tea)

This magnificent Tea Rose is a rich golden-yellow, a strong, healthy and vigorous grower. The flowers are very deep, rich and full, excellent substance, very sweet.

GRUSS AN TEPLITZ

New, hardy, ever-blooming Hybrid Tea Rose. The flowers are large, full and moderately double; are handsomely made, of splendid substance, and are produced on extraordinary long stems that shoot out beyond the foliage in free yet handsome disorder. The color is fiery crimson, shaded with a dark, velvety sheen. It grows to a height of four to five feet, and is perfectly hardy in all sections.

KAISERIN AUGUSTA VICTORIA (Hybrid Tea)

One of the most desirable white roses for summer bedding; large flowers, produced in great profusion; a strong, healthy grower, with large foliage.

BRIDESMAID (Tea)

The flowers are very large and of fine, regular, full form, delightfully tea-scented; color, clear rose pink. A free and constant bloomer; makes elegant buds for cutting.

EVER-BLOOMING CLIMBING ROSES

BABY RAMBLER

New Dwarf Ever-blooming Crimson Rambler.

MADAM NORBERT LEVASSEUR

This is the rose that has created a commotion in the rose world. It is a dwarf bushy grower and a true ever-bloomer, being in bloom all the time; flowers in large clusters; color, brightest crimson, and grows to a height of 18 inches.

NEW RAMBLER ROSE TAUSENDSCHON

A German introduction which comes to us very highly recommended. It has the same vigorous habit of growth as the other Ramblers, and is almost devoid of thorns. It bears its flowers in immense clusters; in color a soft pink when first opening, changing to a carmine rose on the reverse as they fully expand.

DOROTHY PERKINS

As hardy as Crimson Rambler and same habit of growth. Flowers are very double; the petals are very prettily rolled back and crinkled. The color is a most beautiful shell-pink.

EMPRESS OF CHINA (The Apple Blossom Rose)

This is a new hardy climber that possesses great merit. Flowers of good size from pointed buds; soft red, turning lighter as it opens. It blooms from May to December in the open ground.

PHILADELPHIA (Crimson Rambler)

This splendid new variety differs from the old Crimson Rambler in having a brighter, deeper and more intense color and flowers that are perfectly double to the center.

CRIMSON RAMBLER

This plant is of a very vigorous growth for covering buildings, trellises, etc. It cannot be excelled. One of the striking characteristics of this Rose is its remarkable color of the brightest crimson.

2-year-old Roots..... 40c. each; \$4.50 per doz.
1-year-old Roots..... 20c. each; 2.25 per doz.

By express, not prepaid.

If wanted by mail, add 8c. each to price of 1-year-old roots, and 15c. each to price of 2-year-old roots for postage.



PAPA GONTIER (Tea).—Dark crimson red, with long, pointed buds; beautiful for cutting.



BULBS FOR SPRING PLANTING



GLADIOLUS.

GLADIOLUS

If wanted by mail, add 10c. per doz. for postage.

THE cultivation of the Gladiolus is very simple, as they will thrive in any good garden soil, but will amply repay one for careful cultivation. A succession of bloom may be had from July to September by planting at intervals from April to June. OUR GLADIOLUS are from one of the largest growers in the country, and one who has the finest assortment to be had either in this country or Europe; therefore we claim them to be unexcelled as to quality.

MIXED (all colors).—Dozen, 25c.; \$1.50 per 100.

WHITE AND LIGHT COLORS.—Dozen, 30c.; \$2.25 per 100.

LEMOINE'S (Mixed).—Extra fine. 35c. per dozen; \$2.75 per 100.

CHILDSI MIXED.—Extra large and fine. 40c. per dozen; \$3.00 per 100.

EXTRA WHITE AND LIGHT VARIETIES.—All first-class varieties, made up largely from best named sorts, including 10 per cent. of Snow White. 5c. each; 50c. per dozen; \$3.50 per 100.



CALADIUMS

ELEPHANT EAR.

THE Caladium Esculentum is one of the handsomest of the ornamental-leaved plants. It will grow in any good garden soil, and is of the easiest culture. To gain the best result it should be planted where it will obtain plenty of water and an abundance of rich compost. Roots planted in the spring will make good growth in the summer, and in the fall they should be taken up and stored in a cellar. Leaves three feet or more in length and nearly as broad. There is nothing so good as this Caladium for a grand bed of foliage in the garden.

FIRST SIZE BULBS (7 and 9 inches).—Each, 5c. By mail, 10c. 50c. per dozen.

LARGE BULBS (9 and 11 inches).—Each, 10c. By mail, 15c. 75c. per dozen.

EXTRA LARGE BULBS (11 inches and upwards).—Each, 15c. By mail, 20c. \$1.25 per dozen.

Prices per dozen are by express, not prepaid.



TUBEROSES

ONE of the most fragrant and popular of the summer flowering bulbs. May be started early in hotbeds or pots, or planted in open ground after first day of May.

Each \$.05
Dozen25
Per 100 1.00

By mail, 35c. per dozen.

Madeira Vine Roots

Each \$.05
Dozen30

NURSERY DEPARTMENT

SUMMER APPLES

YELLOW TRANSPARENT.—Ripens among the earliest. July. **STAR.**—One of the best. July.
35c. each. \$3.50 per dozen. \$25.00 per 100.

AUTUMN APPLES

GRAVENSTEIN.—August.
OLDENBURG (Duchess of Oldenburg).—August.
35c. each. \$3.50 per dozen. \$25.00 per 100.

WINTER APPLES

YORK IMPERIAL, or JOHNSON'S FINE WINTER.
STAYMAN'S WINESAP.—A great apple.
35c. each. \$3.50 per dozen. \$25.00 per 100.

LANKFORD'S SEEDLING.—A popular sort for late winter use.
50c. each. \$4.80 per dozen. \$30.00 per 100.

ADDITIONAL VARIETIES

"S" means Summer. "A" Autumn. "W" Winter.
Red Astrakhan, S. Carolina Red June, S. Tetafsky, S. Fall Pippin, A. Smoke-house, A. Ben Davis, W. Bentley's Sweet, W. Berry Red, W. Fallwater, A. Winesap, W. Nansemond Beauty, W.
35c. each. \$3.50 per dozen. \$25.00 per 100.

CRAB APPLES

30c. each. \$3.00 per dozen.

PEARS

KOONCE.—Medium to large, very handsome; surface yellow, one side covered with a bright carmine, containing brown dots; quality very good, spicy, juicy and sweet. The Koonce is a vigorous grower, free from blight, productive, and an annual bearer. 50c. each. Three for \$1.25.

VERMONT BEAUTY.—In color it is a rich yellow, with a beautiful bright carmine cheek. The fruit is of medium size, and the flesh is of the finest quality, being rich, juicy and aromatic. 50c. each. Three for \$1.25.

GARBE and KISFER.—September and October. Said to be blight-proof. 40c. each. \$4.00 per dozen. \$25.00 per 100.

BARTLETT.—The old well-known standard variety. 60c. each. \$6.50 per dozen.

FLEMISH BEAUTY, SECKEL.
35c. each. \$3.00 per dozen. \$25.00 per 100.

DWARF PEARS

PRICES ON DWARF PEARS, 2 and 3 Years, First Class:
40c. each. \$3.50 per dozen. \$25.00 per 100.

The following varieties succeed well as dwarfs:
Angouleme, Anjou, Lawrence, Manning's Elizabeth.

PEACHES

CARMEN.—Hardy, rot-proof. Ripens with Early Rivers; almost as large as Elberta. Pale yellow skin; flesh white. Melting, juicy. Ripens ahead of Mountain Rose.
35c. each. \$3.50 per dozen.

ELBERTA.—Needs no description.

ITALIAN DWARF.—Very singular tree. Begins bearing when 12 to 15 inches high, and seldom exceeds 3 or 4 feet. Fine for small yards. White; free-stone.

GOLDEN DWARF.—Seldom grows over 4 to 5 feet. Very hardy; cling. Excellent eater. Fine for city yards.
25c. each. \$2.50 per dozen.

Alexander, Louise, Yellow St. John, Mountain Rose, Early Silver, Crawford Early, Wheatland, Crawford Late, Chairs Choice, Family Favorite, Chinese Cling, Old Mixon, Beeve's Favorite, Christiana, Smock Free, Globe, Ringgold Cling.
20c. each. \$2.00 per dozen. \$12.50 per 100.

JAPANESE, or ORNAMENTAL PLUMS

HALE.—Most vigorous tree of all the Japans. Fruit large; bright orange, mottled with cherry red. Superb in quality. Ripens middle of September.

WILLARD.—Earliest of all Japan plums, and hence very valuable for market.

WICKSON.—Pit small; flesh tender, sweet and delicious.
50c. each. Three for \$1.25.

One of each of the above or the three-in-one order for \$1.25.

BOTAN OR ABUNDANCE.—First of August.

BURBANK.—September 1.

The two above-named varieties, 40c. each. Three for \$1.00.

\$3.50 per dozen.

SHROPSHIRE DAMSON.—25c. each. \$2.50 per dozen.

CHERRIES

HEART.—Black Tartarian, Gov. Wood, Napoleon Bigareau, Florence, Mercer.

DUKE AND MORELLO.—Dye House, Belle Magnifique, Early Richmond, Montmorency.

Price, 75c. each. \$7.00 per dozen.

APRICOTS

HARRIS.—Very hardy; blooms late; sure bearer; fine golden yellow.

RUSSIAN VARIETIES AND NECTARINES.

50c. each. \$5.00 per dozen.

QUINCES

CHAMPION (3 to 4 feet).—50c. each. \$5.00 per dozen.
CHAMPION (2 to 3 feet).—40c. each. \$3.50 per dozen.
MEECH PROLIFIC (3 to 4 feet).—50c. each. \$5.00 per doz.
MEECH PROLIFIC (2 to 3 feet).—40c. each. \$3.50 per doz.
By express, not prepaid.

GRAPES

The following list contains the best-known sorts of hardy American varieties:

OHIO, BLACK.—One of the very best. Two years old.
30c. each. \$3.50 per dozen.

Brighton, Red, Concord, Black, Delaware, Red, Martha, White, Worden, Black. Two years old.

Moore's Early, Black, Niagara, White, Pocklington, White, Vergennes, Red. 25c. each. \$2.50 per dozen.
Campbell's Early.—50c. each. \$4.00 per dozen.

RASPBERRIES

KANSAS (Black Cap).—Firm and of fine quality. Its canes are of strong growth, entirely hardy and prolific, with tough, healthy, clean foliage. Its season is about second early—later than Souhegan, but earlier than Gregg.

MILLER RED.—Fruit size of Cuthbert; bright red; does not fade; core very small; ripens very early; heavy bearer; best shipper.

MUNGER.—Resembles Gregg, but much finer. One of the best of the black caps. Perfectly hardy.

GOLDEN QUEEN, CUTHBERT, OHIO AND SOUHEGAN.
75c. per dozen. \$4.00 per 100.

BLACKBERRIES

ELDORADO.—Berries very large; jet black; sweet, melting; no hard core; splendid keeper and shipper.

WILSON, JR.—Very early.

EARLY HARVEST, ERIE.—Early.

LUCRETIA (Dewberry).—As early as Early Harvest and as large as Wilson. Plant is entirely hardy, healthy, strong grower and very productive.

Any of the above, 75c. per doz. \$4.00 per 100. By Express.

GOOSEBERRIES

DOWNING.—Two-Year-Old. Per half-dozen, \$1.25. Per dozen, \$2.50. Per 100 (by express), \$15.00.

HOUGHTON'S SEEDLING.—Per half-dozen, \$1.25. Per dozen, \$2.00. Per 100 (by express), \$14.00.

CURRANTS

CHERRY.—Per half-dozen, \$1.25. Per dozen, \$2.50.

FAY'S PROLIFIC.

Strong grower, wonderfully productive, and comes to bearing young; fruit large, bright red and good quality.

Per half-dozen, \$1.25. Per dozen (by express), \$2.50.

WHITE GRAPE.—Per half-dozen, \$1.25. Per dozen, \$2.00.

NUT-BEARING TREES

Spanish Chestnut, English Walnut, Paper-Shell Pecan, Filberts, Shellbarks, Hard and Soft-Shell Almonds.
50c. each. \$5.00 per dozen.

JAPAN CHESTNUT.—\$1.00 each. \$10.00 per dozen.

ORNAMENTALS

SILVER MAPLES (9 to 10 feet).—60c. each. \$6.00 per doz.

SILVER MAPLES (10 to 12 feet).—90c. each. \$9.00 per doz.

SUGAR MAPLES (8 to 9 feet).—75c. each. \$8.00 per doz.

SUGAR MAPLES (10 to 12 feet).—\$1.00 each. \$10.00 per doz.

NORWAY MAPLES (8 to 9 feet).—\$1.00 each. \$10.00 per doz.

NORWAY MAPLES (10 to 12 feet).—\$1.50 each. \$14 per doz.

NORWAY SPRUCE (2 to 2½ feet).—70c. each. \$5.00 per doz.

BALSAM FIR (2 to 2½ feet).—75c. each. \$9.00 per doz.

MAGNOLIA GRAND (2 to 3 feet).—\$1.50 each.

Prices on Other Varieties on Application.

SHRUBBERY

JAPAN MAPLES.—Mostly dwarf habit; several kinds weeping and cut-leaved, with brightly colored foliage—red, purple, etc. These are indeed remarkable for beauty, and wherever planted give perfect satisfaction. \$1.50 each.

DEUTZIA GRACILIS, DEUTZIA CRENATA, LILAC (White and Blue); SPIREA, RIEVESII; SPIREA, SUMALDO; SPIREA, CALOSA ALBA; HYDRANGEA, PANICULATA GRAND, CRAPE MYRTLE. All 50c. each.

HARDY SHRUB BUSHES at 75c. each.

VINES

AKEBIA QUINATA, AMPELOPSIS VIETCHII, WISTARIA PURPURA, WISTARIA, ALBA, CLEMATIS (Large Flowering), CLEMATIS (Small Flowering)—All 50c. each.

ENGLISH IVY.—30c. each.

HONYSUCKLE VINES at 25c. each.

NURSERY DEPARTMENT—Continued. HEDGE PLANTS.

CALIFORNIA PRIVET:

1 to 1½ ft.	\$4.00 per 100.	\$30.00 per 1000
1 to 2 ft.	5.00 per 100.	35.00 per 1000
2 ft.	6.00 per 100.	40.00 per 1000

OSAGE ORANGE:

One Year.	75c. per 100.	\$6.00 per 1000
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AMERICAN ARBORVITAE:

12 to 18 inches.	25c. each.	\$12.50 per 100
2 to 3 feet.	75c. each.	22.50 per 100

JAPAN HARDY ORANGE (Citrus Trifoliata)—Three Years Old
Each, 40c. Per dozen, \$4.00. Per 100, \$16.00.

STRAWBERRY PLANTS

Directions for Culture.

Strawberries require well-tilled soil; the plants should be set 15 inches apart, in rows 2 feet wide. Firm the plants well in the soil and keep thoroughly cultivated.

CLYDE.—Very productive; early and as large as Bubach. Medium late.
CLIMAX.—Very productive. Rich, handsome berry, strong and vigorous. Second early.

EXCELSIOR.—An early market variety, good for shipping. Medium size berry and very productive.

GANDY.—Standard late variety, bearing better in black swamp land than any other soil, but will thrive, however, in clay land.

GLEN MARY.—One of the best varieties, having large crimson and juicy fruit. Very productive and popular, growing well in any soil.

JOHNSON'S EARLY.—Second early; medium-size berry, extra fine. It should be planted in stiff, dry land.

LADY THOMPSON.—Strong, healthy plants, having medium large, firm berries, growing freely in drought and standing dry season well.

MICHEL'S EARLY.—A hardy grower, with large and firm berries of finest flavor. The best for early market.

NEW HOME.—Nearly as late as Gandy. Bright red fruit and fine for shipping.

WE offer a nice stock of Strawberry Plants of all the leading varieties. We can supply them at short notice, freshly dug and shipped direct from the nursery.

NICK OHMER.—Very large and productive, with glossy red globular berries of superior flavor. Superb for home use.

OAK'S EARLY.—Strong, vigorous grower, producing hardy plants which stand a long season. Extra early and a good shipper.

STEVEN'S LATE CHAMPION.—A new late variety, yielding heavy crops of large fruit of bright red color. A good keeper and canner.

SENATOR DUNLAP.—A good variety for amateurs, being healthy and easy to grow. Fruit is large, dark red and juicy. Hardy. Midseason.

TENN. PROLIFIC.—Reliable standard variety, bearing abundantly. Medium to late.

WM. BELT.—Good for home use, being a good bearer, with large berries. Stands drought well.

ZEITZER'S EARLY.—Extra early, productive, and a good shipper. The following varieties should have another perfect flowering sort near them:

BUSTER.—Vigorous and healthy. Medium to late.
BUBACH.—A large and strong grower. Early.

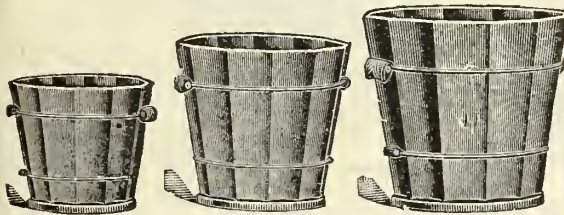
CRESCENT.—Standard variety, producing fine berries. Medium to late.

PRICE.—Any variety, strong, healthy layer plants, 25c. per doz.; 75c. per 100; \$4.00 per 1000. Ready October 15.

Pot-grown plants will be ready for delivery after September 15. Price: Per doz., 75c.; per 100, \$4.00. Orders for same should be in by August 1, 1911.

BY EXPRESS, NOT PREPAID.

PLANT TUBS



COLUMBIA, No. 1 PLAIN.

Made of cypress. Natural varnish finish on the wood, or if wanted can finish them in oil paint, but to order only.

12 inches in diameter by 11 inches high	Each	\$1.00
15 inches in diameter by 14 inches high	Each	1.50
18 inches in diameter by 16½ inches high	Each	2.00
21 inches in diameter by 18½ inches high	Each	2.50
24 inches in diameter by 20½ inches high	Each	3.00

Small Wood Flower Tubs

	Top Diam., Inches.	Deep., Inches.	Weight, Pounds.	Price.
A.....	8	6	1½	\$.25
B.....	8¼	8½	2	.40
C.....	10¾	9	3	.65
D.....	11	11½	4	.85

U. S. Plant Tubs



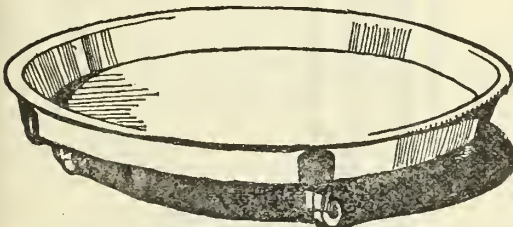
Cedar painted Green

No.	Outside Top Diameter.	Depth.	Price.
1.....	11½	11½	\$1.00
2.....	13½	11½	1.25
3.....	14¾	14	1.65
4.....	14	15	2.00
5.....	19	18	3.00
6.....	22	19½	3.75
7.....	25	22	5.00

INDURATED FIBRE WARE

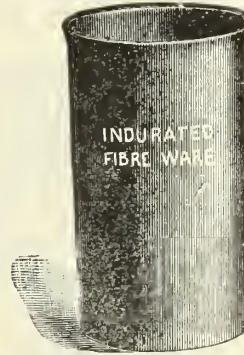
A light, strong material, impervious to moisture, moulded into one piece, seamless and rust-proof. Finished in a rich mahogany color.

Fibre-Ware Rolling Stand



Fibre-ware rolling stands are mounted upon ball-bearing casters and furnish an easy and ready means of moving heavy plants in permanent or temporary locations.

Outside Diameter.	Will take tub diameter at bottom.	Price, Each.
16 inches.....	13 inches.....	\$1.15
18 inches.....	15 inches.....	1.25
20 inches.....	17 inches.....	1.50
22 inches.....	20 inches.....	1.85



Florists' Vases

For displaying cut flowers.

Diameter.	Depth, Inside.	Price, Each.
4½ in.	15 in.	.60c.
5½ in.	18 in.	.75c.
8 in.	13 in.	.75c.

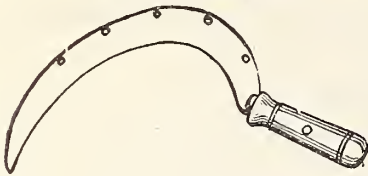
Fibre Flower Pot Saucers



Diameter.	Price, Each.	Per 100.
6 in.	14c.	\$11.50
7 in.	15c.	12.50
8 in.	16c.	13.50
10 in.	18c.	15.50
12 in.	20c.	18.50

HORTICULTURAL TOOLS AND SUPPLIES

Grass Hooks.



- American, plain.....\$.25
- American, Blue Ribbon..... .40
- German—No. 0..... .25
- German—No. 1..... .30
- German—No. 2..... .35
- German—No. 3..... .45
- Best English Grass—No. 2..... .35
- Best English Grass—No. 3..... .50
- Best English Hedge or Grass Hooks, No. 4..... .60
- Best English Hedge or Grass Hooks, No. 5, riveted back..... .75

Garden Trowels.



AMERICAN STEEL TROWEL.



ENGLISH PATTERN STEEL TROWEL.

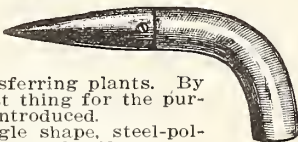
- No. 02—American, 6-inch bright steel blade, plain handle, 5c.
- No. 06—X—American, 6-inch tinned steel blade, enameled handle, 10c.
- No. 212—American, 16-gauge tool steel, 6-inch blade, a handle that will not come out in dry weather. Price, 25c.
- No. 164—English, 6-inch best forged steel, socket handle, strong and durable, 40c.
- No. 164—English, 7-inch, similar to above, 50c.

Plantain Trowels.



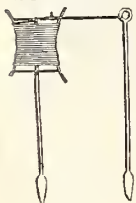
- No. 2—5-inch blade.....15c.
- No. 1—8-inch blade.....25c.

Dibbers.



For transferring plants. By far the best thing for the purpose ever introduced. Right-angle shape, steel-polished, wood handle, 40c. Iron Handle Dibber, 50c.

Garden Reels.



- Medium size.....\$.75
- Large size..... 1.00

Eureka Hand Weeder.



A Very Handy and Useful Little Instrument.

- No. E—Grip handle.....25c.
- No. EL—2-foot handle.....35c.

Large Hand Weeder.



- No. 1—Malleable Iron Hand Weeder.15c.
 - No. G—Solid Steel Hand Weeder...25c.
- By mail, 10c. extra.

Excelsior Weeder.



- Price.....10c. Mailed.....15c.

Scuffle Hoes.



- 4-inch50c.
- 6-inch60c.
- 8-inch70c.
- 10-inch80c.

Asparagus Knife.



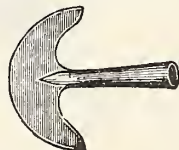
Made of solid steel; see the cutting point. Price, 30c. each.

Asparagus Buncher.



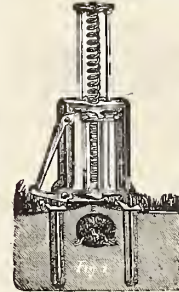
This Asparagus Buncher is adjustable with patented clamp. Price, \$1.50 each.

Edging Knives.



- 9-inch, American.....\$.75
- 8-inch, English, black..... 1.25
- 9-inch, English, black..... 1.35
- 10-inch, English, black..... 1.50

L. M. OLMSTEAD'S IMPROVED RELIABLE MOLE TRAP.

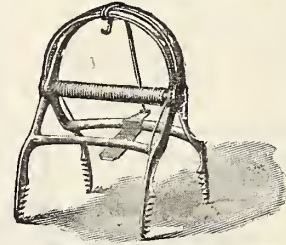


No Cheap Trap So Good
No Good Trap So Cheap

This trap is constructed entirely of steel and iron. Each trap is packed in a strong paper box, one dozen in a case.

Price, \$1.50 each.

Out of Sight Mole Trap.



Considered to be one of the best and cheapest Mole Traps on the market. Especially valuable for hotbeds and frames on account of the convenient size.
Price, \$1.00.

The Model Mole Trap.

This, while possessing all the good qualities of other traps, is especially adapted for setting under glass.
Price, \$1.75.

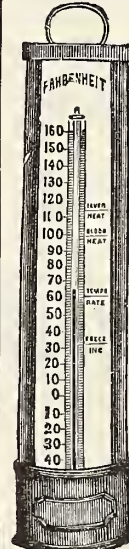
G. & T. Mole Trap.

This is a good Mole Trap for the money. Price, \$1.00.

The Little Giant Mole Trap

Self-setting by pressing down on lever. Very convenient feature found on no other trap. Made from best spring steel, thoroughly galvanized. Simple and durable in its construction. Price, 75c.

THERMOMETERS.



- 8-inch, tin, japanned, No. 20.....\$.15
- 10-inch, distance reading, No. 8..... .25
- 8-inch, cabinet, No. 201-H..... .50
- 10-inch, tin case, best quality, No. 31..... .60
- Porcelain scale, red spirit, No. 251, 8-in... 1.00
- Porcelain scale, 10-inch, mercury, No. 252.... 1.50
- 12-inch, tobacco curing, No. 0..... .35
- Registering (sixes), No. 650, 8-inch..... 2.50
- Mushroom bed..... 1.25
- Dairy or hotbed, glass float..... .25
- Glass floating, large... .50
- 8-inch standard flange, stands boiling water... .60
- Milk Hydrometer, No. 2080..... .40
- Milk Hydrometer, No. 2085 (Quevenne)75
- Incubator, upright.... .60
- Incubator, reclining... .65
- Brooder, No. 6..... .50

HORTICULTURAL TOOLS AND SUPPLIES—Continued

WATERS' TREE PRUNERS

- 4 feet.....\$.75
- 6 feet..... .85
- 8 feet..... 1.00
- 10 feet..... 1.10
- 12 feet..... 1.25

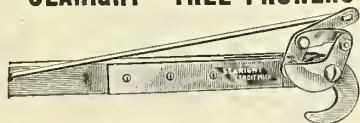
Extra Knives. .25

TELEGRAPH TREE PRUNERS

Price without pole, \$1.00.

Extra blades, 25c.

"SEARIGHT" TREE PRUNERS



No. 1.

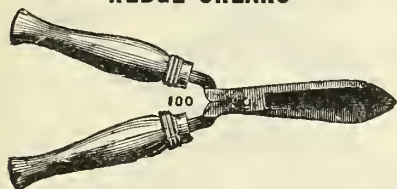


No. 3.

List Price. Our Spec'l Price.

No. 1—8 ft.	\$3.00	\$2.40
No. 1—10 ft.	3.25	2.60
No. 1—12 ft.	3.25	2.60
No. 2—8 ft.	3.00	2.40
No. 2—10 ft.	3.25	2.60
No. 3—10 ft.	2.25	1.80
No. 3—12 ft.	2.25	1.80

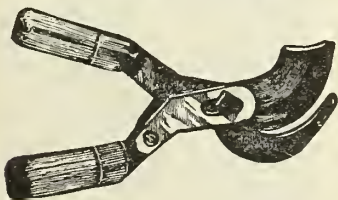
HEDGE SHEARS



100

No. 100—8-inch	\$1.25
No. 100—9-inch	1.50
No. 100—10-inch	1.75
No. 100—12-inch	2.50
No. 101—8-inch, with notch	1.50
No. 101—9-inch, with notch	1.75
No. 101—10-inch, with notch	2.00
No. 101—12-inch, with notch	2.75

LOPPING SHEARS



No. 5—American, or Tip Top	\$1.00
No. 4—American, or Tip Top	1.25
No. 1—Baltimore Draw Cut	2.50
No. 2—Baltimore Draw Cut	2.25

FRUIT PICKER



This cut almost speaks for itself—the device, being so much like the human hand, shows at once the utility of the article. As a Fruit Picker it has no superior. It is made of heavy galvanized wire and easily adjusted to a pole. 25c. Postage, 15c. each.

PRUNING SHEARS



No. 4—Flat Spring, Steel Blade	\$.30
No. 33—Coil Spring, Mal. Handle, Steel Blade	.40
No. 1537—Solid Steel, half polish, 8-inch	.50
No. 4665—Solid Steel, 9-inch	.75
No. 4666—Solid Steel, full polish, 9-inch	1.00
No. 2—French Pruning, 8½-inch	1.50
No. 4770—Ladies', nickel-plate, 6-in.	1.00

If wanted by mail, add 15c.

SHEEP SHEARS



No. 3749	\$.85
No. 3755—Full polish	1.00

By mail, add 15c.

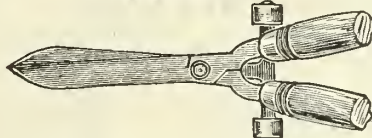
GRASS SHEARS



No. 360—Bent Handle	35c.
No. 460—Trowel Handle	50c.

By mail, add each 15c.

LAWN SHEARS



No. 1062—2 wheels, 8-inch blade, for cutting on narrow borders, under fences and shrubs, \$2.75.

BORDER SHEARS

No. 104—Price, without wheel	\$2.25
No. 105—Price, with wheel	\$2.50

HORSE SHEARS



No. 1087—Bent Handle	50c.
No. 1090—Curved Handle	60c.

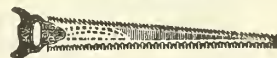
By mail, add 15c.

SCYTHE STONES



- No. 2—White Mountain, 10c. each; \$1.00 doz.
 - No. 3—Green Mountain, 8c. each; 75c. doz.
 - No. 4—Indian Pond, No. 2 (red end), 5c. each; 50c. doz.
 - No. 5—Mowing Machine (beveled), 10c.
 - No. 6—Darby Creek, 10c. each; \$1.00 doz.
 - No. 7—Imported English Talacre, 20c. each.
- None genuine unless labeled Sir Pyers Mostyn, Talacre Quarries.

PRUNING SAWS



16-inch double	\$.65
18-inch double	.75
20-inch double	.85
Saw and Chisel, combined	1.10

PRUNING KNIVES

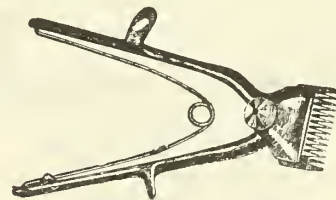


No. 126—Iron Handle	50c.
No. 2173—Cocoa Handle	65c.

BUDDING KNIVES

No. 12	\$1.00
No. 10	1.25

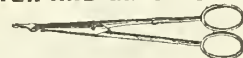
HORSE OR DOG CLIPPERS



Very handy about horses; also for clipping dogs.

No. 20—Horse	\$1.00
No. 40—Horse, ball-bearing	1.75
No. 65—Horse, Fetlock, nickel-plate	\$1.00
No. 203—Toilet or Fetlock, nickel-plate	90c.

FLOWER AND GRAPE SCISSORS



No. 3791—Flower Gatherer	\$.90
No. 3774—Grape Pickers	.50
No. 3794—Grape Thinning Scissors	1.00

5c. extra for postage.

HORSE SCISSORS

No. 9162—Extra fine	\$1.25
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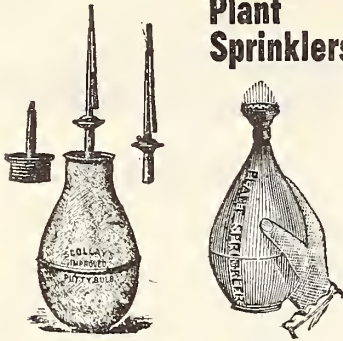
By mail, add 15c.

WIRE PLIERS

Fence Wire Cutters, 6-inch, 40c.; 8-inch, 50c.; 10-inch, 60c.

Florist and Garden Supplies

Plant Sprinklers



PLANT SPRINKLERS

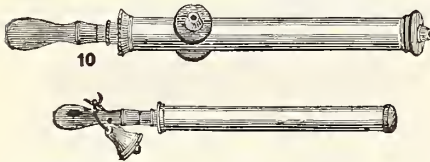
- No. 1—Standard, 12 ounces.....**95c.**
- No. 2—Standard, 7 ounces.....**85c.**
- No. 2—Regular, 12 ounces.....**85c.**
- No. 3—Regular, 7 ounces.....**75c.**
- No. 4—Regular, 4 1/4 ounces.....**55c.**

By mail, **10c.** extra.

PUTTY BULB.

For sprinkling cut flowers, seedlings, plants, clothes, etc.....**\$1.00**
By mail, **10c.** extra.
We do not guarantee rubber goods.

Brass Garden Syringes



Made of heavy brass, which will last for years.

- No. 101—1x12, Rose and single stream.....**\$1.50**
- No. 102—1 1/4x16, Rose and single stream.....**3.00**
- No. 103—1 1/2x16, Rose and single stream.....**3.75**
- No. 109—1 1/4x16, Single stream and two roses.....**4.50**
- No. 110—1 1/2x18, Single stream and two roses.....**4.00**

Model Extension Carnation Support

Endorsed by all the leading Carnation growers as the best support on the market. Price, dozen, **60c.**; 100, **\$3.50**.
Special Price in 1000 Lots.

Cane Stakes

5 to 7 feet long.
Per 100.....**\$1.00** Per 1000.....**\$6.00**

Pot Labels

- | | | |
|----------------------------|---------------|---------------|
| | Plain. | Painted. |
| 4 -inch, per 1000..... | \$.70 | \$.85 |
| 4 1/2 -inch, per 1000..... | .85 | 1.00 |
| 5 -inch, per 1000..... | 1.00 | 1.25 |
| 6 -inch, per 1000..... | 1.25 | 1.50 |
| 12 -inch, per 100..... | .75c. | |
- Special price in quantities to florists.**

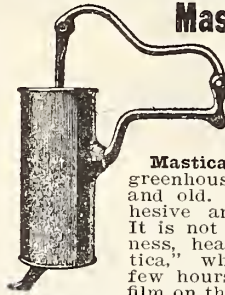
Galvanized Hard Steel Plant Stakes

These are a great improvement over the wooden stakes for carnation and rose beds; they are durable, neat and strong.

- | | | |
|-----------------|---------------|---------------|
| Length. | Per 100. | Per 1000. |
| 2 1/2 feet..... | \$.75 | \$6.25 |
| 3 feet..... | .90 | 7.75 |
| 3 1/2 feet..... | 1.10 | 9.00 |
| 4 feet..... | 1.25 | 10.50 |
| 5 feet..... | 1.50 | 13.00 |

Painted Tree Labels

- Per 1000.
- 3 1/2 -inch, notched or pierced.....**\$.80**
 - 3 1/2 -inch, iron wired.....**1.00**
 - 3 1/2 -inch, copper wired.....**1.25**



Mastica Glazing Machine

Our Special Price
\$1.25

Mastica. — For glazing greenhouses, sashes, new and old. It is elastic, adhesive and easily applied. It is not affected by dampness, heat or cold. "Mastica," when applied, in a few hours forms a skin or film on the entire mass, hermetically sealing the substance and preventing the evaporation of the liquids, and remains in a soft, pliable and elastic condition for years. "Mastica" is of great value in going over old houses with a putty bulb or machine on the outside of sash, as it makes it perfectly tight and saves the expense of relaying the glass.

- Half gallon.....**\$.70**
- Gallon.....**1.25**

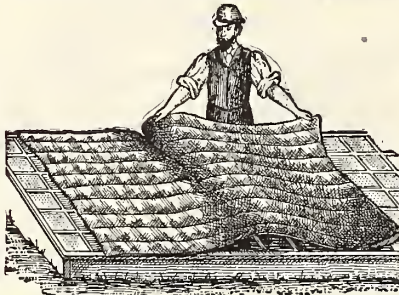
Twemlow's Old English Glazing Putty

Semi-Liquid.

- 16-pound can (1-gallon capacity)....**\$1.40**
- 80-pound kits (5-gallon capacity)....**6.90**

For bedding glass in sash and filling cracks or seams in roof joints or frames of greenhouses or hotbeds.

Burlap Hot-Bed Mats



Made of strong burlap, interlined with wool.

- Price, 40x76, each.....**\$1.00**
- Price, 76x76, each.....**1.50**

Special Price in Dozen Lots.

Plant Bed Cloth

A cheap substitute for glass, and will keep out many degrees of frost. Also useful for shading material. Samples mailed on application.

- Light grade.....**6c.** yard
- Piece of about 65 yards.....**5c.** yard
- Medium grade.....**9c.** yard
- Piece of about 60 yards.....**8c.** yard
- Heavy grade.....**12c.** yard
- Piece of about 40 yards.....**11 1/2c.** yard

Grafting Wax

- 1/4 lb.....**10c.** 1/2 lb.....**20c.** 1 lb.....**35c.**

Sphagnum Moss

For packing growing Orchids, Plants, etc. Per bale.....**\$2.50**

Stable Brooms

For Stables, Lawns and Walks.

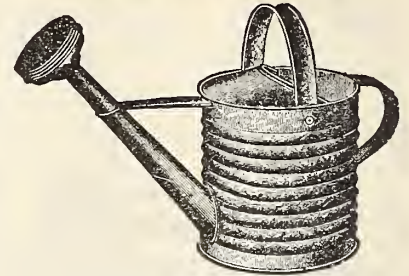
- 14-in. Block, 14-knot Bass.....**\$.60**
- 14-in. Block, 16-knot Bass.....**.75**

Raffia

The best material for tying, plants, vines, etc. Per pound, **20c.** 10 pounds, **\$1.50**.

SILKALINE, spool, **25c.**

WATERING POTS



Ironclad Watering Pots

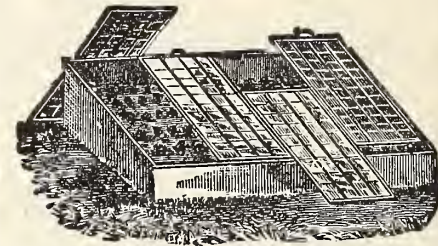
With Adjustable Nozzles.

- | | |
|-----------------------------|-----------------------------|
| 4-quart..... 35c. | 10-quart..... 60c. |
| 6-quart..... 45c. | 12-quart..... 70c. |
| 8-quart..... 55c. | 16-quart..... \$1.00 |
| 20-quart..... \$1.25 | |

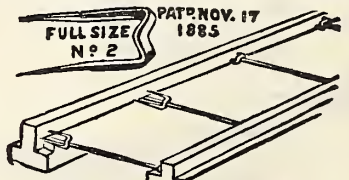
Wotherspoon Make.

- | | |
|----------------------------|-----------------------------|
| 6-quart..... \$1.85 | 10-quart..... \$2.25 |
| 8-quart..... 2.00 | 12-quart..... 2.60 |

Unglazed Hot-Bed Sash



3x6 feet.....Price, **90c.** each



Peerless Glazing Points

(Imp. Van Reyper.)

The finest glazing points on the market. The glass cannot slip; they are quickly and easily put in with special pincers; no "rights" or "lefts" to bother with.

- Per box of 1000.....**60c.**
- By mail.....**75c.**
- Pincers, per pair.....**50c.**
- By mail.....**60c.**

Heavy or Dahlia Stakes

- | | | | |
|-------------|-------------|---------------|---------------|
| | Each. | Per Doz. | Per 100. |
| 3 feet..... | 7c. | \$.75 | \$4.85 |
| 4 feet..... | 10c. | 1.10 | 6.50 |
| 5 feet..... | 11c. | 1.25 | 8.15 |

Light Plant Stakes

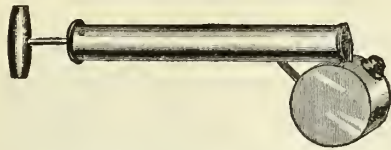
- | | | | |
|-----------------|------------|-------------|---------------|
| | Each. | Per Doz. | Per 100. |
| 1 1/2 feet..... | 2c. | 17c. | \$1.00 |
| 2 feet..... | 3c. | 28c. | 1.70 |
| 2 1/2 feet..... | 5c. | 39c. | 2.40 |
| 3 feet..... | 5c. | 51c. | 3.20 |

Marling

Furnished in 1, 5, 10, 15 and 20-lb. bales.
5-lb. Bales.....**14c.** per pound
1-lb. Bales.....**15c.** per pound
Special Prices in Quantities.

ALWAYS ORDER BY FIGURE AND NUMBER WHERE GIVEN

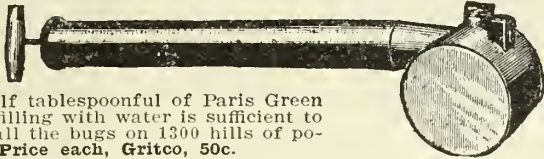
MIDGET TIN HOUSE SPRAYER



Similar to Tin Can Sprayer, only smaller. Holds half pint. Indispensable in every household. Just the thing for disinfecting sick rooms, drains, vaults, kennels, etc. Also rose bushes or any small shrubbery. Price, 35c.

Will successfully apply any non-sedimental liquids. Price, 35c.

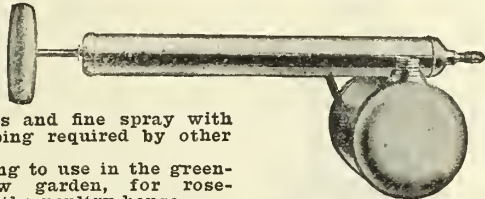
TIN CAN SPRAYERS



One-half tablespoonful of Paris Green and one filling with water is sufficient to destroy all the bugs on 1300 hills of potatoes. Price each, Gritco, 50c.

We carry in stock cheaper tin can sprayers, but advise your using the Gritco, as it is far superior.

AUTO COMPRESSED AIR SPRAYER



A continuous and fine spray with half the pumping required by other atomizers.

Just the thing to use in the greenhouse, window garden, for rose-bushes and in the poultry-house.

Will handle all solutions, insecticides and disinfectants. Made throughout of stout material. Copper syphon tube, bronze ball valve, plunger rod 3/4-inch, copper plated steel. The solution does not come in contact with the pump cylinder. The spray may be adjusted by a slight turn of the nozzle cap. All Tin \$1.00
Tin Pump and Galvanized Reservoir 1.25

ATOMIST CONTINUOUS SPRAYER

It has a quart reservoir of heavy tin, and the pump is attached to it. The pump is compact and durable, and throws a continuous spray. Price, 75c.

THE ACME POWDER GUN



Applies any powdered poison on any plant in any desired quantity any time of the day, and does it right. We also furnish spreader for distributing the blast. Our Special Price, 75c.



For farm, garden, vineyard, tobacco fields, etc. Adjustable to any width of row. Many thousands in use. Distributes Paris Green, London Purple, Hellebore, Sulphur, Lime, Dry Bordeaux Mixture, Dry Bordeaux Mixture and Paris Green Compound, Spanish Pink, Pyrethrum Powder, etc.

This Machine keeps the Poison at a Safe Distance from the Operator.

Dusts potato vines as fast as you walk, two rows at a time. Each machine is furnished with two tubes, five nozzles and strap. Anyone can use it. Weighs, cased for shipping, 17 pounds. Our Special Price, \$8.00.

Little Giant Powder Duster

This Duster is similar to the Champion above, except it is lighter and has a smaller capacity. Our Special Price, \$6.00.

Little Giant Brass Spray Pump and Fire Extinguisher with Agitator



Fig. 639. This Spray Pump is constructed entirely of brass. It is so arranged that the labor of pumping is all done on the downward stroke of the piston and nothing on the up.

PRICE LIST OF PUMP SHOWN.

No. 321 1/2, Fig. 639. Bucket Brass Spray Pump, complete with hose and combination fine, coarse spray and solid stream nozzle. Factory List Price, \$4.00. Our Special Price, \$3.00.

No. 328, Fig. 639. Bucket Brass Spray Pump, complete with hose and combination fine, coarse spray and solid stream nozzle, and an eight-foot pipe extension. Factory List Price, \$4.50. Our Special Price, \$3.50.

Lever Bucket Spray Pumps

For Whitewashing and Painting, always Use Bordeaux Nozzle. One-and-One-Quarter-Inch Cylinder. Notice the Lever and Patent Agitator. Observe Their Advantages. Can be Used in Bucket or Can be Attached to Top of Barrel.

If wanted for whitewashing or painting, so state in order, and Bordeaux Nozzle will be sent. If a stopcock is wanted, the price will be 60 cents extra on either the below-named Bucket Pumps.

Fig. 632. No. 324.—Lever Bucket Pump, complete with hose and nozzle. Factory List Price, \$6.00. Our Special Price, \$4.25.

No. 324A.—Lever Bucket Pump with Agitator, complete with hose, nozzle and eight-foot pipe extension. Factory List Price, \$6.50. Our Special Price, \$4.75.



BRASS BARREL SPRAY PUMPS

Cylinder Valves, Valve Seats and Discharges, All Brass.

No. 304.—Pump only, without hose or nozzle. Factory List Price, \$9.50. Our Special Price, \$7.25.

No. 305.—Pump with 15 feet No. 1 1/2-inch Spray Hose and Vermorel or Bordeaux Nozzle. Factory List Price, \$14.25. Our Special Price, \$10.25.

No. 305.—Pump with 15 feet No. 2 Wire Wound 1/2-inch Spray Hose and Vermorel or Bordeaux Nozzle. Factory List Price, \$15.75. Our Special Price, \$11.00.

No. 306.—Pump with two 15 feet leads of No. 1 1/2-inch Spray Hose and two Vermorel or Bordeaux Nozzles. Factory List Price, \$19.00. Our Special Price, \$13.00.

No. 306.—Pump with two 15 feet leads of No. 2 Wire Wound 1/2-inch Hose and two Vermorel or Bordeaux Nozzles. Factory List Price, \$22.00. Our Special Price, \$14.50.

The above prices include Paddle Agitator.

For Extension Rods, see page 62.

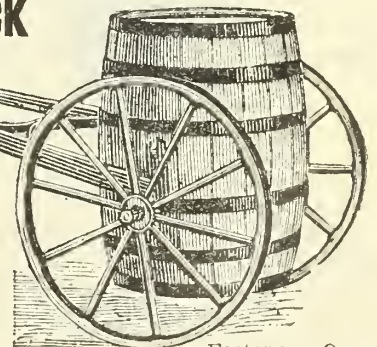
WATER TRUCK

AND BARREL

Any Barrel Spray Pump can be installed in this barrel.

For other combinations, see page 142.

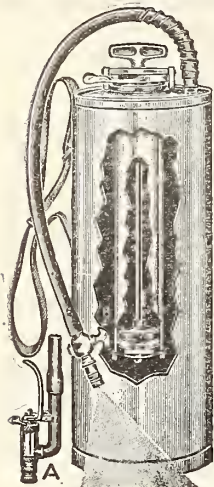
For San Jose Scale use KILL-O-SCALE.



	Factory List Price.	Our Special Price.
Truck with Reg. Tire and Barrel	\$15.00	\$8.50
Truck with 2 1/2-inch Tire and Barrel	16.20	9.25
Truck with 3 1/2-inch Tire and Barrel	17.40	10.00

ALWAYS ORDER BY FIGURE AND NUMBER WHERE GIVEN

AUTO-SPRAY No. 1



PATENTED.

Weight empty, 7 lbs.
Weight loaded, 39 lbs.
Weight shipping, 15 lbs.

A Self-Operating or Automatic Sprayer

The Auto-Spray No. 1 is one of the best on the market. It is very strong and practical. When properly charged contains three gallons of solution and one gallon of compressed air. Ten to twelve strokes of the plunger will compress the air and two pumpings will empty the entire contents.

All parts which come in contact with solution are made of brass, and the handle and other parts are made of malleable iron.

Length of cylinder, 21 in.; diameter of cylinder, 7 inches; capacity, about 4 gallons; weight, empty, 7 pounds.

Auto-Spray No. 1C—Galvanized Reservoir, Stop Cock. Factory List Price, \$5.00. Our Special Price, \$4.50.

Auto-Spray No. 1D—Galvanized Reservoir, Auto-Pop. Factory List Price, \$5.50. Our Special Price, \$5.00.

Auto-Spray No. 1A—Brass Reservoir, Stop Cock. Factory List Price, \$7.50. Our Special Price, \$6.75.

Auto-Spray No. 1B—Brass Reservoir, Auto-Pop. Factory List Price, \$8.00. Our Special Price, \$7.25.

EXTRAS.

- Auto-Pop Nozzles.....\$1.25
- Extension Pipe, brass, 2-foot length, 50c.; galvanized.... .40
- Brass Elbow Extension..... .30
- Double Row Attachment..... 1.50
- Brass Strainer for straining solutions used in Auto-Spray 1.00



Fig. 662.
(Six
Pumps
in One.)

THE "UNIVERSAL SUCCESS" SPRAYER

All working parts are brass, including brass ball valves. A sliding cover prevents the liquid from splashing; also removable strainer is provided. Four feet of hose and an extension pipe furnished. Full directions with each pump. With each pump is shipped extra one small rubber discharge plug, which fits into any ordinary basin or bath tub waste opening for forcing out obstructions; one fire protector nozzle and buggy washer, in addition to Bordeaux Nozzle that is attached to extension rod. Capacity 5 gals. Boxed for shipment outfit weighs about 30 lbs.

Outfit with Galvanized Tank. List Price, \$10.00; Our Special Price, \$6.75.

Outfit with Brass Tank. List Price, \$14.00; Our Special Price, \$10.00.

GRITCO-D SPRAY PUMP



This is one of the most convenient outfits for general use. As an all-round utility sprayer it cannot be beaten. It is particularly adapted for both the garden and greenhouse, also for orchard use, as well as for spraying live stock. It is a splendid whitewashing outfit.

SPECIFICATIONS.

Pump—Has 1 3/4-in. brass cylinder, brass ball valves with brass seat and cage, brass plunger and special plunger packing.

Agitator—Twin paddle type, simple and effective; stirs the liquid thoroughly.

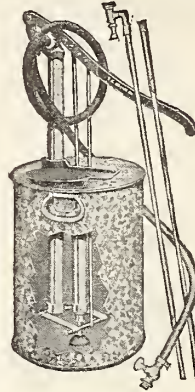
Tank and Cart—Twenty-four gallon wood tank with steel hoops and hinged wood top. Metal wheels, diameter 24-in., with staggered spokes and 2-in. tires. Strong iron axles. Hub-to-hub measurement, 33 in.

Hose and Nozzle—Six feet of 1/2-in discharge hose and Bordeaux Nozzle are furnished.

Shipping Weight—Including cart, when crated, is about 120 pounds.

Price, complete, as described.....\$13.00

AUTO-SPRAY No. 3



Capacity, 8 gallons; Net weight, 30 lbs.; Shipping weight, 40 lbs.

The Auto-Spray No. 3 is adapted for spraying whitewash, cold-water paint, trees, garden vegetables, plants, vines, etc. It is powerful, simple, perfect mechanically and fully warranted.

The Auto-Spray No. 3 is designed along the simplest mechanical lines, and has not one complicated part to get out of order or cause trouble.

The machine is always furnished complete with 8 feet of best 3-ply discharge hose, 3 feet of iron extension pipe, lever shut-off and Vermorel Nozzle.

Auto-Spray No. 3 with Galvanized Tank and full equipment. List Price, \$14.00. Our Special Price, \$12.00.



The Lever Knapsack Spray Pump

Fig. 547.—No. 330.

Galvanized.

Tank holds 5 gallons, is fitted with lid, and strainer, which can be removed. This Pump has lever, large air chamber, ball valves, solid plunger and agitator. Fitted with 5 feet 1/2-inch hose, pipe extension and Bordeaux spray nozzle; can be graduated from a fine mist to a solid stream, or shut off entirely.

Factory List Price, \$10.00; Our Special Price, \$7.00.

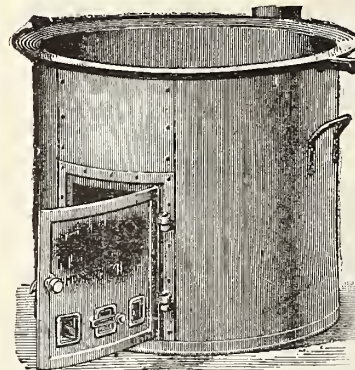
The Perfect Knapsack Spray Pump

Fig. 547.—No. 331. Copper.

Is the same as No. 330, except tank is constructed entirely of copper. Complete with hose, stop cock, pipe extension and Bordeaux nozzle.

Factory List Price, \$16.00; Our Special Price, \$11.25.

Cook Your Lime and Sulphur With G. & T. Boiler and Feed Cooker



Heavy cold rolled steel furnace; extra large feed door; wrought iron handles, firmly riveted on; Kettles smooth, heavy cast iron. Door, frame and flue collar cast iron. Never buckles or warps from heat; designed to set on ground or brick foundation; especially adapted for cooking feed, rendering lard, making soap, scalding hogs, poultry, etc. Cast iron flues are constructed inside this, retaining heat and economizing fuel. We always ship furnace for wood fuel unless otherwise specified.

Also used for lime and sulphur wash.

Prices of G. & T. Boiler and Cooker.				Factory List Price Furnace with Kettle.	Our Special Price Furnace with Kettle.	Factory Price Kettle only.	Our Special Price Kettle only.
Actual Capacity.	Diam. of Furnace.	Shipping Weight.					
30 gals.	26 in.	150 lbs.	\$13.00	\$10.40	\$7.00	\$4.90	
33 gals.	28 1/2 in.	175 lbs.	14.00	11.20	8.00	5.60	
48 gals.	31 1/2 in.	200 lbs.	16.50	13.20	12.00	8.40	
53 gals.	32 in.	225 lbs.	18.00	14.40	13.00	9.10	
75 gals.	36 in.	275 lbs.	24.00	19.20	18.00	12.60	

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

ALWAYS ORDER BY FIGURE AND NUMBER WHERE GIVEN

GOULD'S POMONA SPRAY PUMP

Fig. 1100.

Weight,
66 lbs.

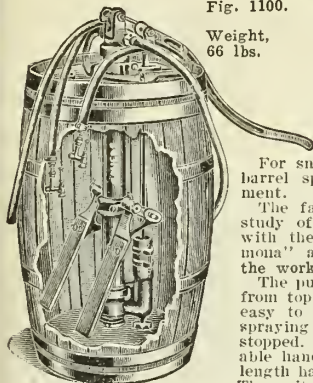
Plunger Diameter, 2 1/2 inches;
stroke, adjustable to 3, 4, 5 inches;
discharge, 1/2-inch hose.

Outside Packed Plungers,
No Leather Packings.

For small orchards of a few acres; a good barrel sprayer that will meet every requirement.

The factory has devoted much time to the study of practical barrel sprayers, and it is with the utmost confidence we list the "Pomona" as first in our complete line. All of the working parts are solid bronze.

The pump has a steel air chamber extending from top of pump to valve chamber, making it easy to get up sufficient pressure to continue spraying for some time after pumping has stopped. It is equipped with a long adjustable handle. The pump may be placed in any length barrel, as the barrel plate is adjustable. The agitator is simple, but very effective.



	List Price.	Our Special Price.
Fig. 1100.—Pump only with Agitator and Hose Coupling	\$20.50	\$12.50
Fig. 1100. Outfit A.—This outfit includes Pump, Agitator, one Mistry, Jr., Nozzle, Hose Bands and Couplings for one lead, but without Hose	22.50	13.50
Fig. 1100. Outfit B.—This outfit includes Pump, Agitator, two Mistry, Jr., Nozzles, Hose Bands and Couplings for two leads, but without Hose	25.75	15.50
Fig. 1100. Outfit C.—This outfit is the same as Outfit A, except with one 15-foot lead No. 1 Hose	26.10	15.75
Fig. 1100. Outfit D.—This outfit is the same as Outfit B, except with two 15-foot leads No. 1 Hose	32.95	20.00
Fig. 1100. Outfit CC.—This outfit is the same as Outfit A, except with one 15-foot lead No. 2 Wire Wound Hose	27.60	16.50
Fig. 1100. Outfit DD.—This outfit is the same as Outfit B, except with two 15-foot leads No. 2 Wire Wound Hose	35.95	21.50
Barrel fitted and installing of pump	5.00	2.50
Brass Plunger Rod instead of iron	1.50	1.00

Gould's Improved "Monarch" Two-Cylinder Spray Pump

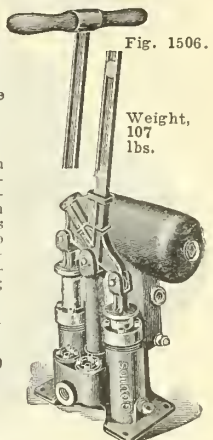
Fig. 1506.

Weight,
107 lbs.

Vertical Outside Packed, Bronze Plungers, Bronze Glands, Valves, Etc.

High-Grade Sprayer for Orchard Work.
Also for Whitewashing.

Fig. 1506.—Has two bronze plungers operating in two vertical cylinders, which are packed with material unaffected by gritty particles to pass through valves and out; does not grind the cylinder. Ports are large and direct. Valves are bronze, ground to fit their bronze seats, are accessible through handholes. This is the easiest operated Pump of its capacity on the market. Diameter of Cylinder, 2 inches; Suction Hose, 3/4 inch; Discharge Hose, 1/2 inch.



	List Price.	Our Special Price.
Fig. 1506.—Pump only with Suction Strainer and Hose Coupling	\$33.00	\$20.00
Fig. 1506. Outfit A.—This outfit includes Pump, Suction Strainer, one Mistry, Jr., Nozzle, Hose Bands and Couplings for one lead, but without hose	35.00	21.50
Fig. 1506. Outfit B.—This outfit includes Pump, Suction Strainer, two Mistry, Jr., Nozzles, Hose Bands and Couplings for two leads, but without Hose	38.00	23.00
Fig. 1506. Outfit C.—This outfit is the same as Outfit A, except with one 15-foot lead of No. 1 1/2-inch Discharge Hose and 5 feet 3/4-inch Suction Hose	40.30	24.75
Fig. 1506. Outfit D.—This outfit is the same as Outfit B, except with two 15-foot leads No. 1 1/2-inch Discharge Hose and 5 feet 3/4-inch Suction Hose	46.90	28.50
Fig. 1506. Outfit C2.—This outfit is the same as Outfit A, except with one 15-foot lead No. 2 Wire Wound 1/2-inch Discharge Hose and 5 feet 3/4-inch Suction Hose	41.80	25.50
Fig. 1506. Outfit D2.—This outfit is the same as Outfit B, except with two 15-foot leads No. 2 Wire Wound 1/2-inch Discharge Hose and 5 feet 3/4-inch Suction Hose	49.90	30.00
If Pressure Gauge is wanted add	3.60	2.25

GOULD'S "FRUITALL" SPRAY PUMP

All Working Parts Bronze.

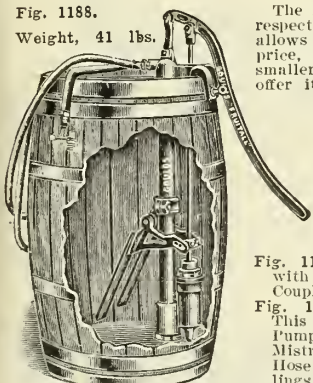
Fig. 1188.

Weight, 41 lbs.

The Fruitall Sprayer is first class in every respect. While the simplicity of its design allows it to be sold at a very reasonable price, and although lighter in weight and smaller in capacity than the "Pomona," we offer it as a thoroughly serviceable sprayer.

The sprayer is held in place in the barrel by an adjustable clamp at the top fitting over the end of a stave, and an anchor at the bottom of the barrel. The plunger is packed from the outside, so it is not necessary to take the entire pump apart to repack.

Plunger, 2 inches diameter; stroke, 4 inches long.



	List Price.	Our Special Price.
Fig. 1188.— Pump only with Agitator and Hose Coupling	\$12.00	\$7.50
Fig. 1188. Outfit A.— This outfit includes Pump, Agitator, one Mistry, Jr., Nozzle, Hose Bands and Couplings for one lead, but without Hose	13.00	8.00
Fig. 1188. Outfit B.—This outfit includes Pump, Agitator, two Mistry, Jr., Nozzles, Hose Bands and Couplings for two leads, but without Hose	16.50	10.00
Fig. 1188. Outfit C.—This outfit is the same as Outfit A, except with one 15-foot lead No. 1 Hose	16.60	10.25
Fig. 1188. Outfit D.—This outfit is the same as Outfit B, except with two 15-foot leads No. 1 Hose	23.70	14.50
Fig. 1188. Outfit CC.—This outfit is the same as Outfit A, except with one 15-foot lead No. 2 Wire Wound Hose	18.10	11.00
Fig. 1188. Outfit DD.—This outfit is the same as Outfit B, except with two 15-foot leads No. 2 Wire Wound Hose	26.70	16.00
Barrel fitted and installing of pump	5.00	2.50
Brass Plunger Rod instead of iron	1.50	1.00

GOULD'S ADMIRAL AND VICE-ADMIRAL SPRAY PUMPS

Diameter Cylinder, 2 1/2 inches; Suction Hose, 1 inch; Discharge Hose, 1/2 inch.

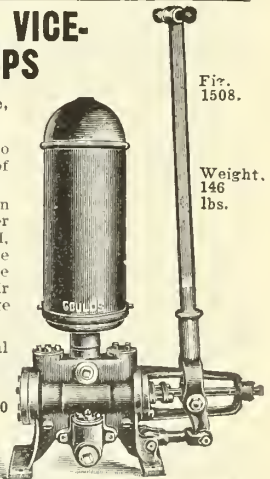
Double-acting and of sufficient capacity to supply four leads of hose or two leads each of two, three or four nozzles.

Have a removable brass lining, which can be quickly withdrawn by removing cylinder head. The brass piston rod is outside guided, making a perfectly straight thrust through the stuffing box. The bronze valves and bronze seats easily reached for examination. Air chamber is large. There are two discharge openings fitted for 1/2-inch hose.

Fig. 1508.

Weight,
146 lbs.

	List Price.	Our Special Price.
Admiral, Fig. 1508.—Pump only with Suction Strainer and Hose Coupling	\$40.00	\$23.50
Fig. 1508. Outfit A.—This outfit includes Pump, Suction Strainer, one Mistry, Jr., Nozzle, Hose Bands and Couplings for one lead, but without Hose	42.00	25.00
Fig. 1508. Outfit B.—This outfit includes Pump, Suction Strainer, two Mistry, Jr., Nozzles, Hose Bands and Couplings for two leads, but without Hose	46.00	27.50
Fig. 1508. Outfit G.—This is the same as Outfit A, except with one 25-foot lead No. 1 1/2-inch Discharge Hose and 5 feet 1-inch Hard Rubber Suction Hose	50.00	30.00
Fig. 1508. Outfit H.—This outfit is the same as Outfit B, except with two 25-foot leads No. 1 1/2-inch Discharge Hose and 5 feet 1-inch Suction Hose	60.00	36.25
Fig. 1508. Outfit G2.—This outfit is the same as Outfit A, except with one 25-foot lead No. 2 1/2-inch Wire Wound Discharge Hose and 5 feet 1-inch Suction Hose	52.50	31.25
Fig. 1508. Outfit H2.—This outfit is the same as Outfit B, except with two 25-foot leads No. 2 1/2-inch Wire Wound Discharge Hose and 5 feet Suction Hose	65.00	38.75
Vice-Admiral, Fig. 1509.—Is the same as the Admiral above, except it is fitted with Pitman that it may be readily attached to gasoline engine.		
Fig. 1509.—Pump only with Suction Strainer and Hose Coupling	40.00	23.50
Fig. 1509. Outfit K.—This outfit includes Pump, Suction Strainer, Hose Bands, Couplings, two Brass Y Connections, four Mistry, Jr., Nozzles, Pressure Gauge, Water Relief Valve, two 25-foot leads No. 1 1/2-inch Discharge Hose and 10 feet 1-inch Hard Rubber Suction Hose	76.00	45.00
Fig. 1509. Outfit K2.—This outfit is the same as Outfit K, except fitted with two 25-foot leads No. 2 1/2-inch Wire Wound Discharge Hose	81.00	47.50



RUBBER HOSE FOR ABOVE OUTFITS.

1/2-inch Oriole, per foot	.17	.10
1/2-inch spray, No. 1, per foot	.24	.15
1/2-inch spray, No. 2, wire wrapped, per foot	.34	.20
3/4-inch suction, per foot	.34	.20
1-inch hard rubber suction hose, per foot	.40	.25

We only cut the above in multiples of 5 feet.

GRITCO No. 100 PORTABLE POWER SPRAYING OUTFITS

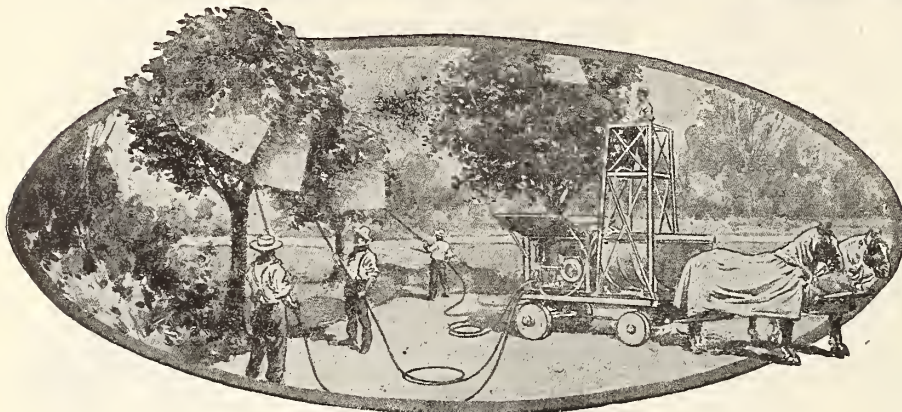


Fig. 1.

a pressure of 250 pounds per square inch for six spray nozzles. The Goulds Emperor Pump used on this outfit is endorsed by leading orchardists. The tank is fitted with mechanical agitator; the engine and pump are covered with a neat cab with roll curtains, and the whole equipment is convenient and substantial; tower is not regularly furnished, but can be added to the equipment at a slight additional cost.

OUTFIT A.—This outfit includes 2 H. P. Engine complete with all attachments connected to Gould's Emperor Pump (Two Cylinders), 200-gallon Spray Tank. It is mounted on Four-Wheel Truck with Double Trees, and has a first-class engine cab. Four 25-foot leads No. 1 ½-inch Hose (coupled). Ten feet 1-inch Hard Rubber Suction Hose and Strainer. Four Mistry, Jr., Nozzles. Two Fig. 1186 Brass Y's. Four Bamboo Rods with Stopcocks, Pressure Gauge and Water Relief Valve. This outfit is complete, ready to go into the orchard. **Price, \$258.00.**

OUTFIT B.—Same as outfit A, with two 25-foot leads No. 1 ½-inch Hose; two Bamboo Rods with Stopcocks and two Mistry, Jr., Nozzles. **Price, \$241.00.**

OUTFIT C.—Same as outfit A, less Truck. **Price, \$234.00.**

OUTFIT D.—Same as outfit B, less Truck. **Price, \$217.00.**

OUTFIT E.—Engine and Pump only as shown in Fig. 2. **Price, \$124.50.**

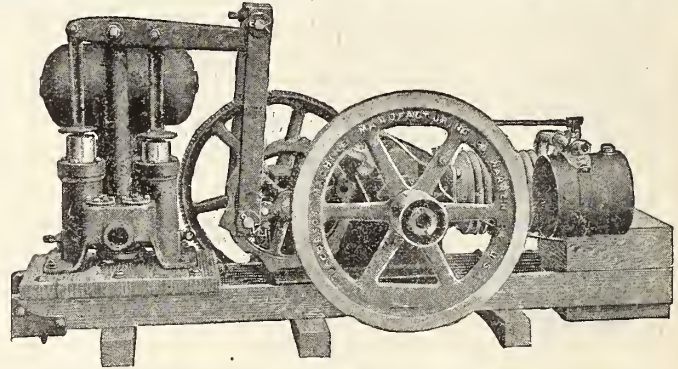
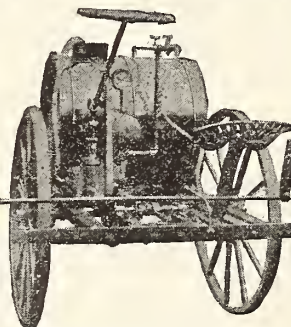


Fig. 2.

GRITCO-H TRACTION SPRAYERS

A manufacturer who confines himself solely to the building of Potato Sprayers must certainly be in a position to erect a machine to do the best work. Such a machine will be found in the **GRITCO-H.**



SIMPLE

EFFECTIVE

Weight, 600 Lbs.

For orchard use we detach the ground hose to the main feed pipe and couple on the orchard hose, and by closing the return valve to the tank and also the outlet valve to the nozzles and throwing the machine into gear and driving from tree to tree, or a distance of 30 to 40 feet, we can store 100 to 150 pounds of fluid, and then when we open the valve to the nozzles we can spray the tree, close the same, drive to the next tree and open and spray again and repeat same.

All the inner parts of the **GRITCO-H**, the tank, barrel, pipings and all interior parts are coated with a solution that is a preventive to the eating of the fluids and rust, which is a great help in the life of the machine. By removing the suction hose from the tank or barrel, and by placing the same in a clean vessel of water, pump it through the whole machine and put a pail or two of clean water into the tank, pull the plug out in the bottom of same, and you always have a clean machine. This is a great saving to the Sprayer.

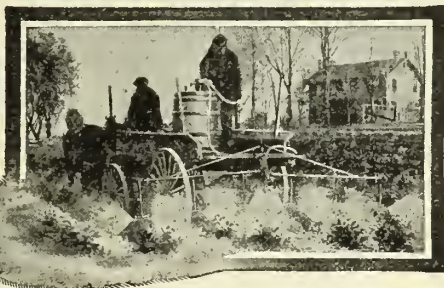
Another advantage is this Sprayer will hold the pressure to which it is set, and no matter how slow or fast the team walks, the pressure will remain the same, while with most of the air compressed pumps the pressure is constantly varying, being controlled entirely by the speed of the team. This is owing to the fact that it is equipped with our new celebrated Gould's Monarch Pump, which is an air compressed Sprayer.

The **GRITCO-H** Traction Sprayer is in a class by itself, and is today the most complete outfit on the market.

H. P.	Rows.	Gallons.	Attachment.	List Price.	Our Special Price.
1	4	50	Ground	\$125.00	\$75.00
1	4	50	Orchard	125.00	75.00
1	4	50	Ground and Orchard	150.00	90.00
2	5	110	Ground	150.00	90.00
2	5	110	Orchard	150.00	90.00
2	5	110	Ground and Orchard	170.00	100.00

Goulds Field Crop Sprayer

Used in Connection With Any Hand or Power
Spray Pump



The best and cheapest crop sprayer on the market. Easily attached to tail-board of a wagon, and when not in use can be folded into small space. It is made to spray four or six rows, any distance apart up to 44 inches, or cover a space 14½ or 22 feet in width. Connection allows sprayer to be easily raised or lowered; spray to be thrown forward, backward, up or down.

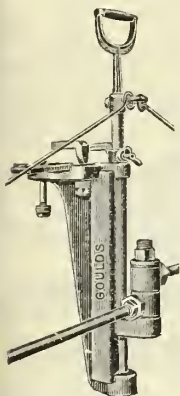


Figure 1322.

Complete with four "Mistry Jr." Nozzles and coupling for connecting to discharge hose of any barrel or power sprayer. **List Price, \$19.00; Our Special Price, \$12.00.**

Same with 6 "Mistry Jr." Nozzles. **List Price, \$22.50; Our Special Price, \$13.00.**

The approximate quantity of Spray Solution of any kind for Potatoes is from 30 to 40 gallons to the acre after diluting.

Connection which clamps to wagon. It is adjustable to any height.

Information on How and When to Spray SAN JOSE SCALE

This orchard pest is controlled by spraying in the dormant season as follows:

APPLE AND PEAR TREES AND ORNAMENTAL SHRUBBERY.

Kil-o-Scale, 1 gallon to 15-18 gallons of water.
Lime Sulphur Solution, 1 gallon to 9-10 gallons of water.

PEACH AND PLUM TREES.

Lime Sulphur Solution, 1 gallon to 9-10 gallons of water.
It is important that the trees be thoroughly sprayed, covering all twigs and fruit spurs completely.

Kil-o-Scale is preferable in case of bad scale infestation and should be used in the spring rather than in the fall. Lime Sulphur Solution may be used in the fall or spring before the buds swell. On peaches Lime Sulphur Solution should be used in the spring about two weeks before the buds swell in order to prevent leaf curl.

SPRAYING IN GROWING PERIOD.

APPLES.

To Control Scab, Codling Moth, Curculio, Cedar Rust, Leaf Spot, use 1¼ gallons Lime Sulphur Solution of 7 pounds Atomic Sulphur to 50 gallons water, and in either case add 2 pounds Arsenate Lead to the diluted spray, and apply thoroughly—

First—After cluster buds open and before blooming. This is primarily for Scab and Cedar Rust.

Second—As soon as the petals of bloom fall. For Cedar Rust an extra application is necessary 10 days later with Atomic Sulphur.

Third—From 3 to 4 weeks after petals fall.

Fourth—From 8 to 9 weeks after petals fall.

PEACHES.

To Control Curculio, Scab and Brown Rot, use Arsenate of Lead and Atomic Sulphur as follows:

First—Spray about 10 days after the petals fall or when the shucks are being shed from the young fruits, using 1½ pounds Tri-Plumbic Arsenate of Lead to 50 gallons of water, and add 3 pounds of lime made into a milk. This is for Curculio.

Second—About 20 days later, or about 4 weeks after the petals have fallen, spray with Atomic Sulphur, using 5 pounds to 50 pounds of water. 1½ pounds of Tri-Plumbic Arsenate of Lead may be added in case the Curculio are present at this time.

Third—About 1 month before the fruit is expected to ripen, spray with 5 pounds of Atomic Sulphur to 50 gallons of water.

POTATOES.

To Control Bugs and Early Blight, spray with Arsenite of Zinc combined with Atomic Sulphur, using 7-8 pounds to 50 gallons of water. The first application should be made as soon as the bugs appear, and repeated as needed.

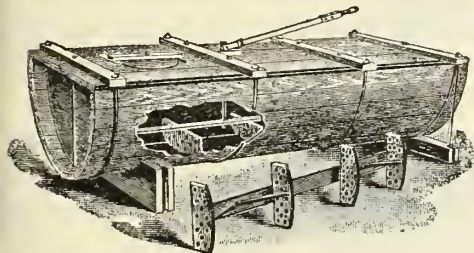
GARDEN TRUCK AND VEGETABLES.

To Control Mildew and other Fungous Troubles, use Bordeaux Mixture, 8-10 pounds to 50 gallons of water. Apply frequently enough to keep all new growth covered, and where insects are present use Bordeaux Arsenate of Lead at the rate of 8 to 10 pounds to 50 gallons of water.

For Prices on above see Page 65.

Note.—It is impossible to give here full directions for all spraying operations, but full details will be cheerfully furnished on application. Send for circular.

SPRAYING TANK



We are having our spray tanks made of 1½-inch clear pine, which has proven to be the best material for this purpose. The tanks are gripped with steel rods.

Style No. 4.—Weight, 200 lbs.; capacity, 200 gallons; dimensions, 5 feet 2 inches long, 3 feet 4 inches wide, 2 feet 5 inches high. **Price, complete with Agitator and Bolsters, \$20.00.**
Other sizes quoted on application.

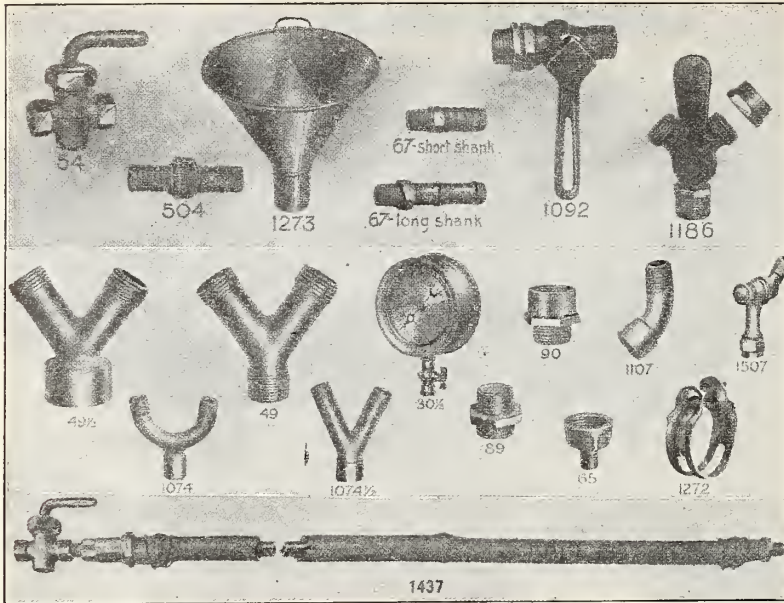
Approximate Quantities Per Tree of Spray Solution Required for Thorough Spraying.

Age.	Peach.	Plum.	Apple.	Standard Pear.
Under 3 years...	¼ to 1 gal.			
3 to 4 years...	1 to 1½ gal.			
4 to 5 years...	1½ to 2 gal.	¼ to 1 gal.	¼ to 1 gal.	¼ to ½ gal.
5 to 6 years...	2 to 2½ gal.	1 to 1½ gal.	1 to 2 gal.	½ to 1 gal.
6 to 8 years...	2½ to 3½ gal.		2 to 3 gal.	1 to 1½ gal.
8 to 10 years...	3½ to 5 gal.	2 to 4 gal.	2½ to 3½ gal.	1½ to 2 gal.
10 to 12 years...			3 to 4 gal.	2 to 2½ gal.
12 to 15 years...			3½ to 4 gal.	2½ to 3 gal.
15 to 18 years...			4 to 5 gal.	3 to 3½ gal.
18 to 20 years...			4½ to 5½ gal.	3½ gal.
20 to 25 years...			5 to 6 gal.	3½ to 5 gal.
Over 25 years...			6 to 8 gal.	5 to 8 gal.
			8 to 10 gal.	

By the term spray solution is meant diluted material ready to spray. Above table is designed for calculating the quantity of material required to spray trees (after pruning) in the dormant stage.

Dwarf Pears will require about half the quantity recommended for Standard Pear Trees.

SPRAY PUMP ACCESSORIES



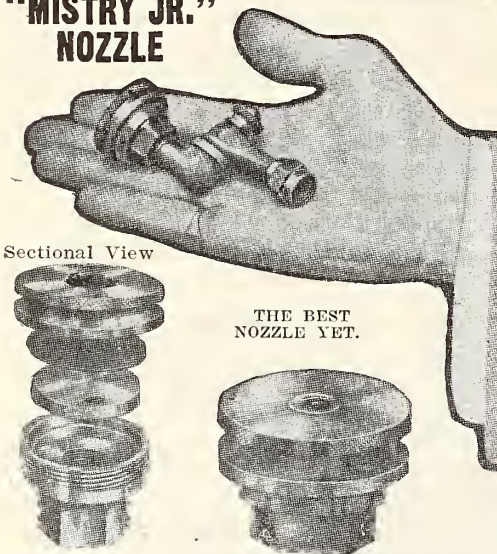
- Fig. 30½—Pressure Gauge for 200 lbs....\$2.25
- Fig. 49—Brass Y..... .80
- Fig. 49½—Brass Y..... .80
- Fig. 54—Brass Stop-cock with ¼-in. female pipe thread on both ends..... .65
- Fig. 65—Brass Coupling, small end with ¼-in. pipe thread; large end cut to fit ½-in. or ¾-in. male hose coupling..... .25
- Fig. 67—Brass Coupling with one end ¼-in. thread and other end for ½-in. hose..... .20
- Fig. 85—Stop-cock, ¼-in. male thread and shank for ½-in. hose..... .50
- Fig. 90—Brass Hose Nipple..... .30
- Fig. 89—Brass Hose Nipple, one end with male pipe thread, other end with hose thread:
½-in. or ¾-in. hose, ¾-in. iron pipe. .25
½-in. or ¾-in. hose, 1-in. iron pipe. .25
½-in. or ¾-in. hose, 1¼-in. iron pipe. .50
1-in. hose, 1-in. iron pipe. .50
1-in. hose, 1¼-in. iron pipe. .50

- Fig. 504—Brass Hose Couplings:
Size, inches. ½ ¾ 1 1½ 2
Complete.... 15c. 15c. 25c. \$1.00 \$2.00
Female half. 10c. 10c. 17c. .65 1.30

- Fig. 545—Iron Pipe Extension, 8 feet long, complete with stop-cock.....\$1.00
- Fig. 546—Iron Pipe Extension, 8 feet long, without stop-cock..... .50
- Fig. 1074—Brass Y for 2 nozzles..... .50
- Fig. 1074½—Brass Y for 2 nozzles..... .50
- Fig. 1092—Brass Shut-off, ¾-in..... 1.50
- Fig. 1107—Brass Elbow, 60 Degrees, ¼-in. .25
- Fig. 1186—Brass Y Discharge Shut-off... 2.00
- Fig. 1272—Brass Hose Clamps, ea. ½-in., 5c.; ¾-in., 5c.; 1-in., 10c.; 1¼-in., 15c.; 1½-in., 20c.; 2-in..... .25
- Fig. 1273—Funnel and Strainer, 20 mesh brass wire; Tin, \$1.50; Galvanized... 1.75
- Fig. 1437—Bamboo Rod with Stop-cock... 2.80
- Fig. 1437—Bamboo Rod, no Stop-cock.... 2.25
- Fig. 1507—Brass Swivel Elbow..... 1.00

- Hose Washers:
Rubber, ½-in. or ¾-in., ea., 2c.; doz..... .10
Leather, ½-in. or ¾-in., ea., 3c.; doz..... .15
Selden's Packing for repacking spray pump cylinders, per lb..... 2.00

"MISTRY JR." NOZZLE



The Mistry Jr. Nozzle is made in both Aluminum and Brass with hardened tool steel disks in discharge cap. The steel disks can be inserted without the least trouble.

This nozzle has been tested under all conditions and found to give entire satisfaction. It produces a perfect mist and covers a wide area. This nozzle is in our opinion the best that can be had.

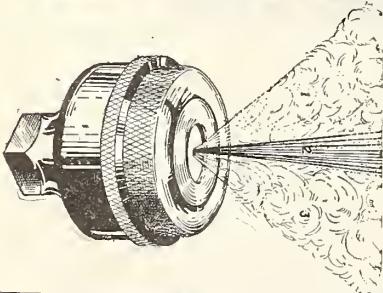
Brass, with extra steel disk.....\$0.75
Aluminum, with extra steel disc..... .85

Can also supply these nozzles with 45-degree angle. Same prices as above.

Extra Steel Disks for Mistry Jr. Nozzle, 5c.
Extra Caps for Mistry Jr. Nozzle, 30c.

Adjustable Swivel Elbow is especially recommended when spraying for the Codling Moth. Can adjust the nozzle to any angle with this elbow. Price, \$1.00.

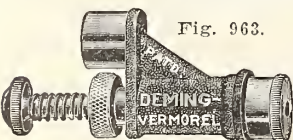
NON-CLOG ATOMIC NOZZLE



The Non-Clog Atomic Nozzle can be adjusted to throw every graduation of spray from a fine wide angle bell shape 18 inches from the nozzle mouth, covering a surface of over three feet, to a concentrated and heavier spray, throwing a distance of 20 feet. Four Disks go with each nozzle.

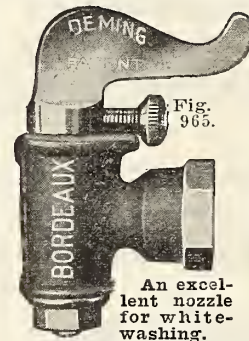
Price:
Non-Clog Atomic Nozzle—brass.\$1.00
Non-Clog Atomic Nozzle—alum.. 1.25
Brass Elbow, 45 degrees..... .20

DEMING VERMOREL NOZZLE



This is an improvement on the old style Vermorel Nozzle; spray is finer and more evenly distributed. The cap with smaller hole makes finer spray.

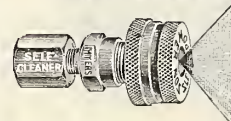
Price, with extra cap, 75c. each.
Fig. 55—Gould's Vermorel Nozzle, each, One Discharge, 75c.; Two Discharge, \$1.75; Three Discharge, \$2.50.
Caps for above, 15c. each.



Original Deming Bordeaux Nozzle

The Bordeaux Nozzle can be readily changed from a solid stream to a mist-like, fan-shaped spray. Should there be any clogging of the nozzles with the spray material, it is easily remedied by turning the handle. Price, 75c.

MIST NOZZLE, Fig. 1317



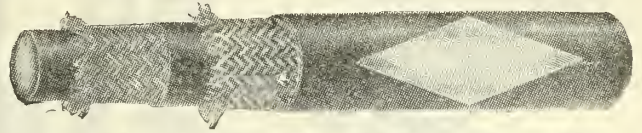
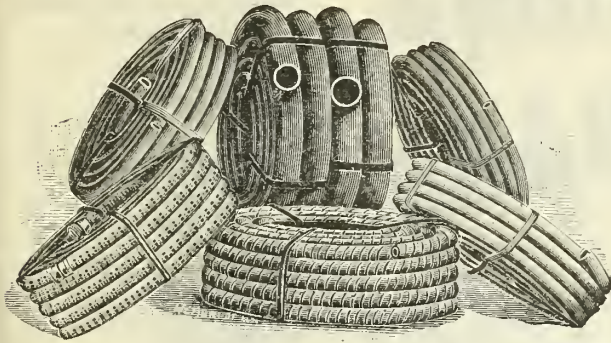
Self-Cleaner or Degorger. Pressing nozzle against tree does the work in an instant. The pressure forces it open ready for use. Capacity equal to 2 ordinary Vermorel nozzles. Will spray whitewash as well as the lighter tree-spraying solutions. \$1.00.



COOPER HOSE MENDER

No clamps necessary. Impossible to pull out of hose. Each, 10c.; dozen, \$1.00.

RUBBER HOSE



Gritco Continuous Length Seamless Hose

Made in Two Sizes, 1/2 Inch and 3/4 Inch.

The construction of this Hose is entirely different from regular Hose. Over a seamless tube of high-grade rubber is braided two plies of tightly twisted cotton yarn.

Between each ply is placed a distinct layer of high-grade rubber.

The Hose is protected by a cover made of rubber specially compounded. It is vulcanized in patented moulds under very high pressure.

This Hose is manufactured in continuous lengths up to five hundred feet.

1/2-inch, per ft., not coupled, 18c.; coupled, 19c.

3/4-inch, per ft., not coupled, 19c.; coupled, 20c.

RUBBER HOSE FOR SPRAY PUMPS.

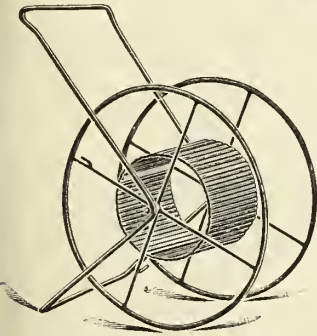
	Per Foot.
1/2-inch Oriole.....	\$0.10 1/2
1/2-inch Spray, No. 1.....	.15
1/2-inch Spray, No. 2, wire-wound.....	.20
1/2-inch Gritco, seamless.....	.19
1-inch 3-ply Hose.....	.20
1-inch Hard Rubber Suction Hose.....	.25
2-inch Wire-Lined Suction.....	.45

1/2-inch Hose comes in 10, 15, 25, 30 and 50-foot lengths. We cannot cut other lengths. 2-inch Hose comes in 5, 10 and 20-foot lengths.

	Per Ft.
ORIOLE .—5-ply, 3/4-in., in 25 and 50-foot lengths (75 lbs. pressure).....	\$0.12
GRIFFITH & TURNER CO.'S EXTRA .—3-ply, 3/4-in., in 25 and 50-foot lengths (80 pounds pressure).....	.14
GRIFFITH .—6-ply, 3/4-in., in 25 and 50-foot lengths (125 pounds pressure).....	.15
CREST .—4-ply, 3/4-in., in 25 and 50-foot lengths (125 pounds pressure).....	.16

3/4 Hose comes in 25 and 50-foot lengths, coupled. We cannot cut other lengths. For Hose 25 ft. long, add to price 1/4 c. per foot.

HOSE REELS

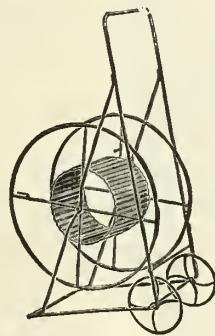


No. 10 All-Steel Reel.

Diameter of wheels.....22 in.
Diameter of drum..... 9 in.
Width between wheel....10 in.
Length of handle.....28 in.
Capacity, 100 ft. 3/4-in. hose.
Weight about 17 lbs.

The large wheels roll easily over rough or soft ground. Nothing to get out of order.

Rigid—Durable—Attractive.
Price \$1.70



No. 20 All-Steel Reel.

Diameter of wheels..... 7 in.
Diameter of reel..... 20 in.
Diameter of drum..... 9 in.
Width of drum.....10 in.
Height of handle.....39 in.
Capacity, 100 ft. 3/4-in. hose.
Weight about 25 lbs.

The weight of the hose is on the wheels, not on the hands, when being moved about. This reel is light yet rigid and durable.
Price \$2.00



No. 51.

Wood frame hose reel with square top. Each, 75c.



No. 50.

Wood frame hose reel with round top. Each, 75c.



No. 42.

Steel frame hose reel with square top. Each, \$1.00.

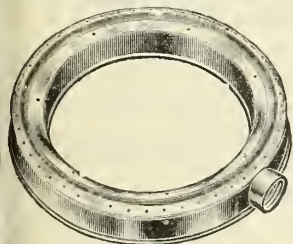
The Gem is one of the best all-wood reels on the market. Handy, strong and durable. The Gem.....\$2.00

The K. C. No. 1—All metal; tubular frame; wire arms; wheels 7 inches in diameter. Capacity, 100 feet 3/4-in. hose. Weight, 12 1/2 pounds. Price, \$2.00.

The No. 10 Tubular—Wheels, 21 inches; weight, 18 pounds. Capacity, 100 feet 3/4-in. hose. Price, \$3.50.

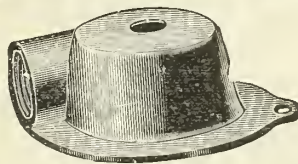
The No. 20 Tubular—Wheels, 24 inches; weight, 20 pounds. Capacity, 150 feet 3/4-in. hose. Price, \$4.00.

LAWN SPRINKLERS



FOUNTAIN SPRINKLER

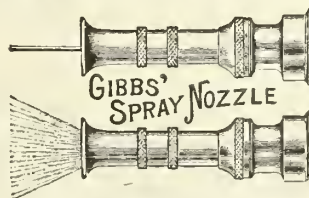
MADE OF HEAVY BRASS. Easily moved over the lawn without turning off the water. The mist-like spray is a veritable "thing of beauty."
Price, 60c.



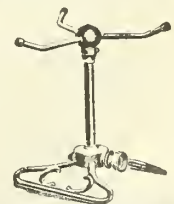
C. B. C. SPRINKLER

No. 54.

This is the cheapest and most effective sprinkler made. The distribution of water is perfect. Price, 25c.



3/4-in., Gibbs', brass nozzle, 35c.
1-in., Gibbs', brass nozzle, 85c.
3/4 x 6-in., Brass Hose Pipe with screw tip, 30c.
1 x 8 1/2-in., Brass Hose Pipe with screw tip, 50c.



REVOLVING SPRINKLER

These sprinklers are compactly and strongly made with phosphor-bronze bearing. Pluvius, 11-in. high, \$1.25. Crescent Lawn, 24-in. high, \$2.25. Crescent Lawn, 36-in. high, \$3.00.

It will pay you to use this insecticide in green-houses and on potted plants.

This insecticide destroys insects in poultry-houses and homes.

LEMON OIL COMPANY'S STANDARD

Soluble INSECTICIDE in Water

NO DISAGREEABLE ODOR.

Guaranteed by the Lemon Oil Company under the Insecticide Act of 1910. Serial No. 321.

NO POISON.

THIS INSECTICIDE

is death to pests—is safe to plants—is harmless to user—is low in price—is free from disagreeable odor.

We recommend Lemon Oil Co.'s Standard Insecticide. It is used by the most prominent florists and seedsmen to destroy Scale, Mealy Bug, Rust, Aphis, Caterpillar, etc., on Palms, Rose Bushes, Rubber Plants, Ferns, etc. It leaves no disagreeable odor on blooms or foliage—advantages over the vile-smelling soaps and powders—especially for indoor use. Being Poisonless, it is not dangerous to use.

This will be found an excellent wash for dogs and other animals; it relieves Mange, destroys Lice and other insects, and gives the coat a beautiful glossy appearance. Contains no poison to injure the animal, and being liquid, gets through the hair to the hide.

It will destroy Lice and other insects in poultry houses.

It will also kill Roaches, Ants and other insects that infest houses.



DIRECTIONS FOR USE:

For Mealy Bug.— $\frac{1}{2}$ pint Standard Insecticide to 4 to 6 quarts of luke-warm water or 1 tablespoonful to 2 cups of luke-warm water. When dipping for this insect the plants should remain in the liquid from 10 to 15 seconds and kept in continual motion. When syringing use the finest sprayer and apply the liquid with force.

For Brown and White Scale on Palms, Rubber Plants, etc.— $\frac{1}{2}$ pint Standard Insecticide to 4 quarts warm water or 1 tablespoonful to 2 cups warm water, applying with sprayer or sponge.

For Thrip, Red Spider, Caterpillar, Black and Green Fly.— $\frac{1}{2}$ pint Standard Insecticide to 2 or 3 gallons water or 1 tablespoonful to 3 or 4 cups water. Either spray or dip.

For Destroying Mites.— $\frac{1}{2}$ pint Standard Insecticide to 4 or 6 quarts of water. Water the plants with the liquid 2 or 3 times at intervals of 6 days.

For Destroying Ants.— $\frac{1}{2}$ pint Standard Insecticide to 1 gallon water. Well water their nests and runs several times in the course of a few days.

For Destroying Fleas, Insects, Relieving Mange and Skin Diseases on Dogs and Other Animals.—1 tablespoonful of Standard Insecticide to 1 cup warm water; rub well into the hide, letting lather remain a few minutes.

For Destroying Lice and Other Insects in Poultry Houses.—1 part Standard Insecticide to 10 parts water.

For Destroying Roaches, Ants and Other Insects in Houses.—1 part Standard Insecticide to 5 parts water.

PRICES:

$\frac{1}{2}$ Pint.....	\$.25	1 Gallon.....	\$ 2.00
1 Pint.....	.40	5 Gallons.....	9.00
1 Quart.....	.75	10 Gallons.....	17.50
$\frac{1}{2}$ Gallon.....	1.25		

Directions on every Can.

POISON

KIL-WEED

POISON

NOT TO BE USED ON LAWNS

A SCIENTIFIC WEED DESTROYER. FREE FROM ODOR. By Analysis it Has Been Found There is no Stronger Weed Killer on the Market.

An unsurpassed preparation for the removal of grass, weeds, vines and bushes from paths, roadways, gutters, streets and any other place from which it is desired to remove any and all vegetable growths, thus destroying the breeding ground for mosquitoes. The work can be done in a speedy, thorough, economical and easy manner. The material has no bad effect on the ground, neither does it injure or discolor the brick, stone or marble curbing.

No more digging and disfiguring of paths and roadways. Saves expense of several men. **KIL-WEED** not only kills weeds, but destroys seed germs and roots of plants. Can be used with an ordinary sprinkling can. One gallon **KIL-WEED** will make 30 to 35 gallons treating liquid when mixed with water. One man with a sprinkling can in one hour can do as much or more than six men could in one-half day, and do the work better.

Judgment should be exercised in using **KIL-WEED**, as it is impossible to give full directions to suit every case. If the weeds are large and strong the solution should be made stronger than for ordinary grass and weeds. They should be cut down so that the solution can reach the roots.

1-Quart Can.....	\$.35	5-Gallon Can.....	\$4.00
$\frac{1}{2}$ -Gallon Can.....	.60	10-Gallon Can.....	7.50
1-Gallon Can.....	1.00	1 Barrel, per gal.....	.65

FULL DIRECTIONS WITH EVERY CONTAINER. WRITE FOR SPECIAL CIRCULAR.

POISON KIL-WORM POISON

Destroys Worms, Ants, Etc., Infesting Golf, Cricket Grounds, Parks and Lawns. Sure Death to Snails.

Does not injure grass, but acts rather as a fertilizer. (Note.—Must not come in contact with fine plants.)

Has been thoroughly tested and found perfectly satisfactory.

Causes the insects to come to the surface to die. One gallon **KIL-WORM** makes fifty gallons liquid when mixed with water.

Prices:

1-Quart Bottle.....	\$.65
$\frac{1}{2}$ -Gallon Bottle.....	1.25
1-Gallon Jug.....	2.00
5-Gallon Jug.....	9.00
Barrels (45 gallons). Per Gallon.....	1.75

FULL DIRECTIONS ON EVERY CAN.

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

A Scientific Chemical Compound for Exterminating the San Jose Scale



Notwithstanding the fact that there are many other Scale remedies on the market, **KIL-O-SCALE** is holding its own and is still the favorite among many fruit-growers. The dealers like to handle it because it sells rapidly, and the Orchardist likes to use it because it is easily applied and very effective. It was the first commercial remedy on the market for the destruction of San Jose Scale. The best and most reliable oil remedy. **Specially valuable for spraying apple and pear for San Jose Scale.** Perfectly soluble in water in any proportion. **KIL-O-SCALE** is not simply an oil remedy; it contains other chemical preparations, each in itself being an insecticide of more or less efficiency.

DIRECTIONS.

KIL-O-SCALE is a concentrated LIQUID and is shipped in barrels, kegs or cans. To one gallon of **KIL-O-SCALE** add 18 gallons of cold water and stir. It is then ready to be applied to the trees while in the dormant stage.

KIL-O-SCALE will congeal in Cold Weather, it should be kept in a temperature not colder than 40 degrees Fahrenheit. **Be Sure to Stir Well Before Mixing With Water.**

Pint Cans, each.....\$.30 Quart Cans, per quart......50 Half-Gallon Cans......75 One-Gallon Cans, wt. 10 lbs.....1.25	Two-Gallon Cans, wt. 20 lbs.....\$2.25 Five-Gallon Cans, wt. 40 lbs.....5.00 Ten-Gallon Cans, wt. 80 lbs.....9.50 Half-Barrels (25 gals.), wt. 225 lbs..22.50 BARRELS, PER GALLON, 85c. Wt. 450 lbs.
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ARSENATE OF LEAD (Paste)

Kills Codling Moth, Worms, Curculio, Caterpillars, Potato Bugs, Rose Bugs and all chewing insects without injury to foliage or buds. **Directions:** For all chewing insects, use 2 to 3 lbs. to 50 gallons of water. Add water slowly till rubbed to a thin paste before adding to the volume of water.

1-lb. pkge., per lb.....25c. 2-lb. pkge., per lb.....20c. 5-lb. pkge., per lb.....18c. 10-lb. pkge., per lb.....16c.	25-lb. pkge., per lb.....14c. 50-lb. pkge., per lb.....13c. 100-lb. pkge., per lb.....11c. Barrels, 400 to 600 lbs., per lb.....9c.
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For Tri-Plumbic Arsenate of Lead, add 1c. per lb. to above prices.

ARSENITE OF ZINC (Paste)

This poison is especially recommended to kill the potato beetle, flea beetle, asparagus beetle and rose chafer or rose bug. It has much better adhesive properties than Paris green, and acts much quicker than Arsenate of Lead, being therefore preferable to either of them for use on potatoes. **Directions:** 2 lbs. to 50 gallons of water. It is preferable to use in combination with a fungicide.

1-lb. pkge., per lb.....25c. 2-lb. pkge., per lb.....22c. 5-lb. pkge., per lb.....20c. 10-lb. pkge., per lb.....18c.	25-lb. pkge., per lb.....16c. 50-lb. pkge., per lb.....15c. 100-lb. pkge., per lb.....14c. Barrels, 300 to 500 lbs., per lb.....13.
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Arsenite of Zinc and Bordeaux Mixture same price as above. Arsenite of Zinc and Atomic Sulphur 1c. per lb. less than above prices.

Atomic Sulphur with Arsenate of Lead (Paste)

This is a combination of insecticide and fungicide. Can be used on all fruit trees controlling the Scab and Brown Rot on used on all fruit trees, controlling the Scab and Brown Rot on Peaches, Scab, Leaf Spot, Sooty Fungus, Frog Eye, Cedar kills all leaf-eating insects. **Directions:** 8 to 10 lbs. to 50 gallons of water.

1-lb. pkge., per lb.....25c. 2-lb. pkge., per lb.....23c. 5-lb. pkge., per lb.....20c. 10-lb. pkge., per lb.....18c.	25-lb. pkge., per lb.....15c. 50-lb. pkge., per lb.....14c. 100-lb. pkge., per lb.....12c. Barrels, 400 to 500 lbs., per lb.....10c.
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For Atomic Sulphur without Arsenate of Lead, deduct 1c. per lb. from above prices.

BORDEAUX MIXTURE (Paste)

Recommended for Rust, Scab and all kinds of Rot and other fungous diseases. Should be used on Potatoes, Grape Vines and all fruit trees. **Directions:** 8 to 10 lbs. to 50 gallons water.

1-lb. pkge., per lb.....20c. 2-lb. pkge., per lb.....18c. 5-lb. pkge., per lb.....16c. 10-lb. pkge., per lb.....14c.	25-lb. pkge., per lb.....13c. 50-lb. pkge., per lb.....12c. 100-lb. pkge., per lb.....10c. Barrels, 500 lbs., per lb.....9c.
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BORDEAUX MIXTURE (Powder)

For blight on potato, tomato, celery plants, trees, etc.; also for fungous diseases.

1-lb. pkge., per lb.....35c. Larger sizes quoted on application.	5-lb. pkge., per lb.....30c.
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Bordeaux-Arsenate-Lead Mixture (Paste)

This is a combined fungicide and insecticide specially recommended for apple and pear trees; also for potatoes, melons and cucumber vines. **Directions:** Apple and pear trees, 8 to 10 lbs. to 50 gallons water; peach and plum trees, 6 to 8 lbs. to 50 gallons water, and stir.

1-lb. pkge., per lb.....25c. 2-lb. pkge., per lb.....23c. 5-lb. pkge., per lb.....20c. 10-lb. pkge., per lb.....18c.	25-lb. pkge., per lb.....16c. 50-lb. pkge., per lb.....14c. 100-lb. pkge., per lb.....12c. Barrels, 500 lbs., per lb.....11c.
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Bordeaux Mixture and Paris Green (Powder)

This compound has proved very successful during 14 years past. Cheaper than Paris Green. It kills the bugs and defends against flea beetles and blight.

1-lb. pkge., per lb.....30c. Larger sizes quoted on application.	3-lb. pkge., per lb.....27c.
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BLUESTONE (OR COPPER SULPHATE)

The Bluestone market fluctuates, and we are therefore unable to put prices in catalogue. Will name best possible prices on application.

FLOWERS OF SULPHUR

Pound, 10c. Five pounds, 8c. lb. Ten pounds, 6½c. lb. N. B.—If by mail, add 15c. per pound for postage. 25 pounds.....\$.06 lb. 100 pounds.....\$.04½ lb. 50 pounds......05½ lb. Bbls., 155 lbs. (net) .03 lb.	Prices subject to change without notice.
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FLOUR OF SULPHUR

Pound...\$.10 lb. 10 lbs.....\$.06 lb. 50 lbs...\$.04½ lb. 5 lbs......08 lb. 25 lbs......05 lb. 100 lbs...\$.03½ lb.	Barrels (250 lbs.).....\$.102¾ lb. Prices subject to change without notice.
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FORMALDEHYDE, 40% SOLUTION

It is Valuable as a Germicide, Fungicide and Disinfectant. **Soil Treatment:** Sprinkle soil in the proportion of one gallon to one square foot with a solution of 2 to 3 pints Formaldehyde to 50 gallons of water. Do not plant for two weeks.

Household and other purposes: To disinfect clothing soak it 24 hours in a solution of two pints Formaldehyde and 5 gallons of water. To disinfect homes, stables, chicken-houses, etc., scrub with solution of one pint of Formaldehyde to two gallons of water.

Prices: ¼-pt. bottles, 15c.; ½-pt. bottles, 25c.; 1-pt. bottles, 45c.; 5-pt. bottles, \$1.70; 1-gal. cans, \$2.75.

IRON SULPHATE (OR COPPERAS)

For Destroying Dandelion, Plantain, Kingweed (Ambrosia-trifida), Wild Mustard, Etc.

Use at the rate of 1½ to 2 lbs. to one gallon of water. Do not let solution stand more than 3 or 4 hours after mixing. Strain through a fine sieve of 20 to 30 mesh brass wire. Apply with Spray Pump that has brass working parts.

Prices: 1 lb., 10c.; 5 lbs., 8c. per lb.; 10 lbs., 7c. per lb.; 25 lbs., 6c. per lb.; 50 lbs., 5c. per lb.; 100 lbs., 4c. per lb. **Special Prices in Larger Quantities.**

KEROSENE EMULSION (Liquid)

Ready for use by simply adding 12 to 15 parts water to one of mixture. This is strictly an insecticide for all sucking insects. Qt., 40c. Gal., \$1.00. 5 gals., \$4.00.

LIME SULPHUR SOLUTION

This material combines the great fungicidal properties of Sulphur with the scale remedy, and is specially recommended for peach and plum trees which need the combined treatment in the fall and spring. In spraying this material care should be exercised to avoid getting it in the eyes, and gloves should be worn to protect the hands. **Prices:**

1-qt. Cans.....25c. ½-gal. Cans.....45c. 1-gal. Cans.....75c.	5-gal. Cans.....\$2.90 10-gal. Cans.....3.00 ½ bbl., per gal......18 1 bbl., per gal......16
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Special Price in Larger Quantities.

Add 9 to 10 parts cold water to one part of LIME SULPHUR SOLUTION and stir thoroughly. Apply with spray pump.

PARIS GREEN

Quarter pound.....10c. Half pound.....15c.	Pound.....30c. By mail.....45c.
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PERSIAN INSECT POWDER OR BUHACH

Price: ¼ pound, 15c. Pound, 40c., or by mail, 55c. **DRY**—Blow on with a bellows or gun. **SOLUTION**—Dissolve one ounce to three gallons of water, and apply with syringe or pump

SOLUBLE OIL, 95 Per Cent. For Use in Dormant Period

This is a good remedy for Scale Insects. Add 15 parts of water to one part Soluble Oil; stir thoroughly and apply with Spray Pump.

1-Gal. Cans.....\$1.00 each. 5-Gal. Cans.....3.65 each.	10-Gal. Cans.....\$6.65 each. Half-Barrels.....60c. per gal. Barrels.....50c. per gal.
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APHINE

Kills plant lice, both in open and in greenhouses. Positively harmless to plants. Will not disfigure flower or foliage. Care should be exercised to reach stems and under leaves. When dipping, keep plants in motion while applying. When washing plants use a soft sponge.
 Prices: ½ pint, **40c.**; pint, **65c.**; quart, **\$1.00**; gallon, **\$2.50.**

APHIS PUNK (Nikoteen)

Especially designed for use in private places and in houses without convenient furnaces for heating irons necessary for vaporizing Nikoteen or Tobacco Extract. It is very effective as an insecticide. The Punk is lighted with a match and allowed to burn, which it does without flaming, at the same time giving off dense white fumes of Nikoteen that kill aphis and thrip very effectively. Per box, **60c.**; per 12 boxes, **\$6.50.**

"BLACK LEAF 40"

"Black Leaf 40" is far superior to Black Leaf Tobacco Extract or any other tobacco product as an **insecticide or sheep dip**. It is in the form of a concentrated solution and is much easier to handle.

Directions: For Spraying, 1 pint "Black Leaf 40" to 85 to 100 parts of water. For Dipping, 1 pint "Black Leaf 40" to 85 to 120 parts of water. Full directions on every package.
 Price, ½ lb., **85c.**; 2½ lbs., **\$3.25**; 10½ lbs., **\$12.50.**



Pat. March 16 and Nov. 9, 1897.
 Pat. in Canada Nov. 2, 1897,
 and Jan. 25, 1900.

BUG DEATH kills Potato, Squash and Cucumber Bugs, Currant and Tomato Worms, and all bugs and worms that chew the leaves of plants; non-poisonous.

Directions for Applying Dry: For potato and other vines which require a top application, apply dry with Shaker or Sifter at the rate of 15 to 25 pounds per acre to an application, according to size and conditions of the vines.

- 1-pound package.....\$.15
- 3-pound package..... .35
- 5-pound package..... .50
- 12½-pound package..... 1.00
- 100 pounds..... 7.50

Add **17c.** per lb. for postage.
Directions for Using in Water: Add 15 to 25 lbs. to 80 gallons of water, and mix thoroughly.

SHAKERS FOR APPLYING BUG DEATH, 25c.

FISH OIL SOAP WITH TOBACCO

Apply for green-fly or aphis, one-half ounce to gallon of water; one ounce for mealy bugs and two ounces for most greenhouse scale. Outside purposes, double the strength for same kind of pest.

Price, ½ lb., **10c.**; 1 lb., **15c.**; 2 lbs., **25c.** 5-lb. package, **60c.**

HAMMOND SLUG SHOT

A non-poisonous powder; it requires no further mixing or preparation; easily applied; not injurious or dangerous to animals, the person applying it or fruits and vegetables treated; destroys potato bugs and beetles, green and black fly, slugs, worms, caterpillars, etc. Ten to forty pounds is sufficient for an acre.

5-lb. Package.....**25c.** 10-lb. Package.....**45c.**

PURE WHITE HELLEBORE

The cheapest and best preparation for destroying rose slugs, currant worms, etc. One-quarter pound, **10c.**; half-pound, **20c.**; pound, **30c.** By mail, **45c.** per lb.

NICO-FUME

Nico-Fume is a Tobacco Paper insecticide for fumigating greenhouses. Extensively used by prominent florists. Very easy to apply. Prices: 24 sheets, **75c.**; 144 sheets, **\$3.50**, and 288 sheets, **\$6.50.** Directions on each package.

SEE PAGE 75 FOR SHEEP DIPPING TANK.

NIKOTEEN

Is the most powerful known insecticide, and will be found more economical and convenient than weak tobacco extracts.
 Price: Pint cans, **\$1.50**; 5-pint cans, **\$7.00.**

VAPORIZING PANS (for above).....\$.60
IRONS..... .60
3 PANS, 3 IRONS and 1 HOOK..... 3.50

NICOTICIDE

An infallible remedy for aphis, green fly and other greenhouse vermin.

- No. 1—1 pint for 32,000 cu. ft. of space.....**\$2.50**
- No. 2—½ pint for 16,000 cu. ft. of space..... **1.25**
- No. 3—4 oz. for 8000 cu. ft. of space..... **.70**

Lamp for evaporating, consisting of pan, wire frame and lamp.....**.50**
 After lamp is lit and pan containing compound is placed over it, the person should leave the house and not re-enter for at least two hours, as the lamp will die out soon after the compound has evaporated.

FUMIGATORS

- No. 2—Height, 16 in. For a house 12x40 feet. Price...**\$2.00**
- No. 3—Height, 20 in. For a house 15x100 feet. Price... **2.50**

"SANITINE" (Embassy Brand)

A Powerful Deodorizer, Disinfectant and Sheep Dip.

Will act as a deodorizer in light dilution, 1 part to 200 parts water. As a disinfectant, 1 part to 50 parts of water. As an antiseptic for sores and as a sheep dip, 1 part to 100 parts of water.

Small bottle, **25c.** Large bottle, **50c.** 1-gallon can, **\$2.00.**
 Special price in larger quantity.



Sulpho-Tobacco Soap is a powerful agent for the destruction of all bugs and insects. One or two applications will rid plants of the pests. Full directions with each cake.

Destroys cabbage, squash- and potato-bugs, currant worms, lice, green-fly, mealy bug, red spider, etc. Sure death to all plant insects indoors and out-of-doors. Of special value for spraying shrubs, fruit trees and vines.

- 3-oz. cake makes 1½ gallons prepared solution, **10c.** Mailed, postpaid, for **13c.**
- 8-oz. cake makes 4 gallons prepared solution, **20c.** Mailed, postpaid, for **28c.**
- 10-lb. cake makes 80 gallons prepared solution. By express, **\$3.00.**

"THY-CRESOL"—English Cold-Water Sheep Dip.

A gallon makes a hundred gallons for most uses. A world-famous dip, and besides, is unexcelled as an internal and external remedy for animal wounds and skin diseases, for killing animal parasites, mixing with whitewash for trees, chicken-houses, kennels, etc. Price: Pint cans, **45c.**; quart can, **65c.**; ½-gallon can, **\$1.00**; gallon can, **\$2.00**; 5-gallon can, **\$6.75.**

TOBACCO DUST

For green and black aphis, fleas, beetles, etc. Splendid fertilizer and preventative for insects in the ground and around roots. For insects on plants apply with powder duster or bellows. For worms or grubs in the soil, apply liberally to the surface and rake in, or strew thickly in the drills before planting.

Price: 5 pounds, **25c.**; 20 pounds, **80c.**; 100 pounds, **\$3.75.**

TOBACCO STEMS

Indispensable for fumigating greenhouses and conservatories for the destruction of green and black aphis and other insects.

Dampen thoroughly a few hours before using, place about a half-pound over a handful of shavings in a fumigator, and light. 50-pound bale, **3c.** pound.

TREE TANGLEFOOT



For protecting trees against climbing insect pests in a simple, economical and effective way, use Tree Tanglefoot—a sticky substance applied directly to the bark of trees. One application remains sticky on the trees three months fully exposed to the weather. Easily applied with a small wooden paddle. One lb. will spread 8 feet long by 5 inches wide, 1-16 inch thick. Will stay on tree three months.

- 1-lb. Can.....\$.30
- 3-lb. Can..... .85
- 10-lb. Can..... 2.65

HORSE, COW AND HOG REMEDIES



BY USING
KOW-KURE
THE GREAT COW MEDICINE

the milk. It is a medicine for cows only. Prices, small size, 50c.; large size, \$1.00.

Watch every cow, and at the first sign of disorder in appetite, digestion or flow of milk, give a dose of **KOW-KURE**. Carefully follow the directions as given on the box and that cow will get well.

KOW-KURE is in powder form, to be given in regular feed. It cures abortion, barrenness and scours, caked udder, removes retained afterbirth, purifies the blood, strengthens the appetite, vitalizes the nerves and prevents disease. It increases

"ANTIKOL" HOG CHOLERA

Antikol is specifically designed to prevent and cure **Hog Cholera**. It cannot be a benefit except in cases where a disease is due to germs introduced into the intestinal tract. It is fatal to the hog cholera germ, and yet absolutely harmless to the hog when used in accordance with directions.

Price: \$1.00 and \$6.00 packages. The \$6.00 size contains 7 1/2 times more than the \$1.00 size.

AMERICAN HORSE TONIC

This tonic is a specific for horses, an actual medicine that goes to the root of all horse ailments and removes the cause of the trouble.

A few doses will send a dull, listless horse on its way rejoicing.

Its curative power is wonderful. **AMERICAN HORSE TONIC** is the best remedy known for worms, stoppage of water, all bowel complaints, inflammation of the lungs, recent founders, distemper, coughs, colds and swelling of the glands of the throat. Small size, 25c.; large size, 50c.

HORSE COMFORT

The Most Remarkable Remedy Ever Compounded for Healing Cuts and Open Sores of Every Kind. **HORSE COMFORT** is a liquid preparation which is unequalled in its power to quickly cure all kinds of open sores or abrasions of the skin. It is used by simply wetting the sore spot. No bandages or filthy rags, no rubbing or heating it in. Simply wet the spot and the cure begins. Price, per bottle, 25c. and 50c.

BAG BALM

For all diseases of the cow's udder and teats there is no remedy so quick and certain in its curative powers as **BAG BALM**. It is a soothing, penetrating ointment, especially adapted for all those serious and annoying troubles known as caked bag, cow pox, chapped, cracked and sore teats, bunches, chafing and inflammation of all kinds. **BAG BALM** penetrates through the skin and inner tissues at once, reaching the glands, where it reduces the inflammation, breaks up the bunches and spreads its cooling, softening effect to all the affected parts. This remedy has met with unequalled success, and is found on the most progressive dairy farms in the country. Price, 50c.

POULTRY AND PIGEON REMEDIES



LAMBERT'S DEATH TO LICE

A DISINFECTANT INSECT POWDER. This powder is unrivaled as an insecticide; handy to use, cheap to buy, and does the work quickly.

15-oz. package....	\$0.25	Postpaid....	\$0.40
48-oz. package....	.50	Postpaid....	1.00
100 oz. package....	1.00	By express.	

Primo Liquid Remedy and Tonic for Fowls

For Gapes, Roup and other internal afflictions. Keep coop clean and disinfect it. Price, pints, 25c.; quarts, 50c.

Pratt's Horse and Cattle Remedies



PRATT'S Conditioner for Horses and Cattle, 7-lb. package, 50c.; 12-lb. bag, 75c.; 25-lb. bag, \$1.50; 100-lb. bag, \$5.00.

PRATT'S Animal Regulator, per pkge., 25c.

PRATT'S Worm Powder, per package, 50c.

PRATT'S Heave, Cough and Cold Cure, per package, 50c.

PRATT'S Colic Cure, 25c. and 50c. sizes.

PRATT'S Veterinary Liniment, 25c. and 50c. sizes.

PRATT'S Peerless Hoof Ointment, 25c. size.

PRATT'S Germathol, 25c. size.



Rust's Condition Powder

The only positive preventive and cure for Gapes and Poultry Cholera, and a most excellent medicine for young turkeys that have been exposed to the weather; also an excellent medicine for horses, cattle, sheep and hogs. 13-oz. package, 25c.; by mail, 40c. 32-oz. package, 50c.; 5-lb. box, \$1.00.

Dr. Lesure's Veterinary Stable Case

Contains a full assortment of the different Medicines and all necessary tools to administer them.

BOOK GIVING SYMPTOMS OF ALL DISEASES.
Price, Complete, \$6.00.

Dr. Lesure's Veterinary Medicines

Colic Cure, \$1.00. Fever Drops, 50c., \$1.00. Cough and Tonic Drops, 50c., \$1.00. Horse Renovator, 50c., \$1.00; Worm Annihilator, 50c. Electric Hoof Ointment, 50c. Total Eclipse Spavin Cure, 50c. All-Heating Balm, 50c. Gall Cure, 25c., 50c. Lesure's Liniment, 50c.

Nice cabinet furnished with an assorted order of \$20.00.

Dr. Daniels' Veterinary Remedies

Colic Cure, \$1.00. Cough, Cold and Fever Drops, 50c. Horse Renovator, 50c. Wonder Worker Oster-Cocous (Nerve and Muscle Liniment), 50c. Hoof Grower and Softener, 50c. Gall Cure, 25c.

Primo Universal Pain Killer and Healer for All Kinds of Stock

Contains no minerals or poisons. The magnetic healing effects of this preparation are greatly increased by heating. Heat it and bathe the parts affected. Price, pints, 25c.; qts., 50c.

CONTINENTAL OINTMENT

Continental Ointment is a scientifically prepared petrolene product, tasteless and odorless, with remarkable healing properties. But unlike many similar preparation, it is absolutely harmless either externally or internally. There is no limit to its use.

Keep a box in the house and you will find it useful so often and in so many ways that it will become almost second nature to run for the **Continental Ointment**.

Prices, per box, 25c. and 75c.

HAVEN'S ROUP PILLS.—For the cure of Roup, Catarrh, Colds, etc. Box, 25c.

GOING LIGHT TABLETS

FOR PIGEONS

When used as per directions, will cure the dreaded disease known to pigeon-keepers as "going light," except in cases where the bird has reached an incurable stage of the disease. These tablets contain powerful remedial properties and should not be fed to young birds. Directions with every package. Price, 25c.

POULTRY REMEDIES

THERE IS ONLY ONE "BEST," THAT IS

SATISFACTION
OR YOUR
MONEY BACK

Pratts

40 YEARS ON
THE
MARKET

GUARANTEED POULTRY REMEDIES

**PRATTS POULTRY
REGULATOR.**



The best and most famous poultry tonic in the world. Keeps fowls of all kinds healthy, increases egg production, aids moulting. Makes little chicks grow rapidly.

In packages, 25c., 60c.; 12-lb. pails, \$1.25; 25-lb. bag, \$2.50.

PRATTS ROUP CURE.



A guaranteed cure for roup, colds, cankers, catarrh, etc., in fowls. Very economical to use. Many prominent poultrymen use it the year around as a preventive. 25c., 50c. and \$1.00 pkgs.

**PRATTS POWDERED
LICE-KILLER.**



A powerful insecticide and disinfectant in powdered form; put up in sprinkler-top boxes. The increased egg-production due to the ridding your fowls of vermin will surprise you. It pays well to use it. 25c. and 50c.

PRATTS Liquid Lice Kill-
er, 1 quart, 35c.

PRATTS BABY CHICK FOOD.



This is one of the greatest Money savers and greatest Chick Savers ever placed on the market. Every man, woman or child who raises little chicks, turkeys, ducks and geese should try at least one package of Pratts Baby Chick Food. It is a scientific food ration to be fed for the first three weeks. If you want real success with your hatches, if you want to save all the baby chicks, if you want them to grow fast—get Pratts Baby Chick Food on our recommendation for your first trial; after that you will never be without it. Put up in 1 lb., 10c.; 3 lb., 25c.; 6 1/2 lb., 50c.; 14 lb., \$1.00; 50 lb., \$3.00, and 100 lb., \$5.75.

**PRATTS WHITE DIARRHOEA
REMEDY.**



This remedy will positively save many dollars' worth of little chicks to poultry raisers. It has taken us nearly three years to find a remedy for White Diarrhoea, and we are so sure that we have it in this article that we authorize our dealers throughout the world to refund the purchase price in case it fails. 25c. and 50c. a box. Mailed postpaid on receipt of price.

PRATTS Head Lice Oint-
ment for Poultry, per tin, 25c.

**CURE FOR
CHICKEN GAPES**

HACKETT'S GAPE CURE

KILLS THE WORM AS
WELL AS THE GERM



THE WAY MOTHER USED TO DO



THE NEW WAY.

No drugging; simply confine the chicks and dust the Powder over them; they inhale it; kills both worm and germ; treat the whole brood at once in less than five minutes.

Package, 25c. Post-
age on single pack-
age, 12c. extra.

VALENTINE'S GAPE REMEDY

Dust it over the chicks. They inhale the dust. Goes right to the spot. Kills both worm and germ. Whole brood treated at once. Treat turkeys same as chicks. Use remedy soon as symptoms such as sneezing or sniffles appear.

Price, per package, 25c.



FOR CHICKENS.—This Roup Cure is one of the best known remedies to cure Roup, Canker and Diptheretic Roup where it is used according to directions on every package, except in cases where the fowl is in the last and incurable stages of the disease.

Kur-Roup is put up especially for us from a scientific remedy, in which is combined a strong tonic and blood purifier, building up the system, dispersing the disease.

25c. Per Package, Postpaid.

G & T LICE POWDER

Fatal to all lice, fleas and other insect vermin. Perfectly harmless to fowls, animals and vegetable life. Invaluable for use on setting hens. 15 oz., 25c.; 48 oz., 50c.; 100 oz., \$1.00.

G & T LIQUID LICE KILLER

Standard remedy for destroying all species of lice, insects and mites affecting poultry and stock. Quart, 35c.; 2 Quarts, 60c.; 1 Gallon, \$1.00.

G & T CHOLERA REMEDY

For treatment of indigestion, bowel trouble, diarrhea, constipation and troubles of like character in old and young fowls there is no better remedy. Should always be kept on hand. If fowl is afflicted with loss of appetite and great thirst, it has cholera. Directions with every package. Price, 50c.

RUST'S EGG PRODUCER

You can feed for eggs just as you feed for milk, beef or pork; and you can get plenty of eggs at all seasons by using **Rust's Egg Producer**. Directions on each package. Prices: 1-lb. box, 25c.; 2 1/2-lb. box, 50c.; 6-lb. box, \$1.00; 10-lb. box, \$1.50; 25-lb. box, \$3.50.

CONKEY'S ROUP CURE

The Original Standard Remedy for Roup, Colds and Canker in domestic fowls and pigeons. It is also an excellent preventive. Directions on each package. Prices, 25c., 50c., \$1.00.

CONKEY'S CHOLERA REMEDY

Given in Drinking Water.

A reliable Remedy for Indigestion, Sour Crop, Diarrhoea, Dysentery, Bowel Trouble, and all Ailments of the Digestive Organs, commonly called Cholera. Price, 50c.

CONKEY'S LAYING TONIC

It promotes the **Egg Production** in a natural manner. Unequaled for **Moulting Fowls**. Full directions go with each package. Price, per package, 25c.

LEE'S LICE KILLER

Is easily applied to roost poles and about the poultry-house, and kills all vermin, mites, bedbugs, etc., that have their lodging in the cracks and crevices.
Price: Quart, 35c. 1/2 Gal., 60c. Gal., \$1.00. 5 Gals., \$4.00.

LEE'S INSECT POWDER

Is intended especially for use on setting hens and little chicks. Is also of great value for insects on plants and vegetables, and for general use about household. Price, 20-ounce package, 25c.

LEE'S EGG MAKER

2 1/2-lb. package, 25c.
25-lb. pail, \$2.00

LEE'S GERMOZONE (IN TABLETS OR LIQUID.)

For roup, cholera and other poultry diseases; also skin, scaly and mucous surfaces. Specific for eruptions, inflammations, discharges, sores, wounds, etc. GERMOZONE IS A GREAT REMEDY. Directions with every package. Price, per pkge., 50c.; per bottle, 50c.

WILL MAKE HENS LAY.

WILL MAKE CHICKS GROW.

SOMETHING TO GROW ABOUT

"HEN-E-TA"

ABOUT 30% PURE BONE ASH

NO OTHER BONE NEEDED | **NO OTHER GRIT NEEDED**

NO MORE BONE CUTTERS NEEDED
NO MORE BEEF-SCRAPS NEEDED
NO MORE CHARCOAL NEEDED
NO MORE OYSTER-SHELLS NEEDED

100 lbs. - - \$2.25

Balanced Ration Formulas Free

If you will give us your dealers name and address.

HEN-E-TA BONE CO.
 NEWARK, N.J. DEPT. FLEMINGTON, W.VA.

"Hen-e-ta Bone Grits" contain about 30 per cent. PURE BONE ASH, which means 600 pounds of Bone Ash in every ton of "Hen-e-ta". Bone Clusters. "Hen-e-ta" is made in four grades: Fine, No. 1; Medium, No. 2; Coarse, No. 3; Superfine, No. 4. No. 4 in 100-lb. sacks only.

"Hen-e-ta" is entirely digestible; while oyster shells are almost entirely indigestible. Oyster shells are discarded after their sharp edges are worn smooth; "Hen-e-ta" is never discarded; it is dissolved.

HIGH GRADE HEN FEED
THE BALANCED RATION FOR LAYING HENS
ALL GRAIN; NO GRIT OR SHELLS.

This feed is formulated from pure, sweet grains. Only those grains are used that are of known value for producing eggs. This is the feed for the poultryman who feeds for profit. 1 lb., 5c. 10 lbs., 30c. 100-lb. sacks, \$2.50. Special price in larger quantity.

HIGH GRADE CHICK FEED
"THE FEED THAT IS ALL FEED."
ALL GRAIN; NO GRIT OR SHELLS.

This feed is absolutely pure and unadulterated, containing no offal or injurious ingredients, such as rice hulls, ground straw or cobs, etc. It will not hurt or scour chicks.
 1 lb., 5c. 10 lbs., 30c. 100-lb. sacks, \$2.50.

CHICK MANNA, or HEALTH FOOD
(For Little Chicks.)

This preparation is especially prepared for little chicks when first hatched. This should be the first and only food, and continue for 10 or 12 days before feeding anything else. Directions for feeding on each package. 1-lb. package, 10c.; by mail, 25c. 5-lb. package, 40c. 15-lb. package, \$1.10. 60-lb. box, bulk, \$4.20.

Every 100 hens will need 100 lbs. "Hen-e-ta" per month, and should have it the year round; or 1 lb. "Hen-e-ta" per average fowl per month. The cost of this amounts to nothing, when compared with the results obtainable and the saving of other materials. All sizes are same price.
Prices: 10 lbs., 50c.; 25 lbs., \$1.00; 50 lbs., \$1.50; 100 lbs., \$2.25. Special price in ton lots.

MORE EGGS AND BIGGER EGGS

MORE MILK AND RICHER MILK

MORE FLESH AND HEAVIER FLESH

MORE HEALTH AND MORE PROFIT

LITTLE GIANT STOCK & POULTRY FOOD

CURES WORMS PREVENTS ABORTION

5 FEEDS FOR ONE CENT

A TONIC REGULATOR FOOD & CURE

Write for our guarantee

LITTLE GIANT FOOD CO.
 NEWARK, N.J. P. O. B. 335

For Large or Small, Old or Young.
Cattle, Sheep, Horses, Swine and Poultry.

LITTLE GIANT STOCK FOOD-TONIC.

Composed of sterilized meat-meal, sterilized bone-flour, sterilized ground-blood, C. P. charcoal, imported French gentian root, imported African foenugreek seed, imported Spanish licorice.

FATTENING FEED

This feed puts the finishing touches on chickens before sending them to market. It does it in the shortest possible time. Special study is given to grinding this feed into the proper form to give the best results. So confident are we of the value of this feed for fattening purposes that we urge a trial. Convince yourself. 5 lbs., 20c. 10 lbs., 30c. 100-lb. sacks, \$2.50.

MASH FEED TO MAKE HENS LAY

This is a complete mash containing ground grain, alfalfa meal, meat meal, and everything necessary for producing a large egg yield. Mix with hot water and it is ready to feed.
 5 lbs., 25c. 25 lbs., \$1.00. 100-lb. sacks, \$2.50.

G. & T. CO.'S HIGH GRADE PURE BEEF SCRAP
50 to 55 PER CENT. PROTEIN.

This Beef Scrap is the highest possible grade, and is made from Pure Beef Trimmings and cracklings, and has no pork or other materials to cheapen same. It is fully guaranteed as to quality, and will keep indefinitely. Price: 5 lbs., 25c. 100-lb. bag, \$3.10. Special prices in ton lots.

Guaranteed Analysis: Protein, 22 to 28 per cent.; fat, 9 to 12 per cent.; phosphorus, 4 to 5 per cent.; calcic phosphate, 22 to 24 per cent.
Prices: 5-lb. pail, \$1.00; 10-lb. pail, \$1.50; 25-lb. pail, \$3.00. Special price in larger quantities.

GRANULATED CHARCOAL

A little ground charcoal mixed with the soft feed in the morning, once or twice a week, is an excellent corrective for the fowls, and keeps them healthy. We carry three sizes, one for grown fowls, one for small chicks, and pulverized. 5 lbs., 30c. 10 lbs., 50c. 25 lbs., \$1.00. 50-lb. sack, \$1.25. 100 lbs., \$2.00.

DARLING'S PURE BEEF SCRAP

This Beef Scrap is specially prepared from pure beef trimmings and is always uniform. Good meat is very important in a poultry yard if the best results are to be obtained. 5 lbs., 25c. 10 lbs., 40c. 50 lbs., \$1.75. 100-lb. sack, \$3.25. See page 73 for Beef Scrap Hopper.

ALFALFA MEAL

This is a green feed all the year round. Everyone knows that alfalfa is fast supplanting clover. It is very high in protein, and furnishes the chicks a growing food which, at the same time, has a medicinal value. 5 lbs., 25c. 50 lbs., \$1.25. Per 100-lb. sack, \$2.00.

MEAT MEAL

This is a true egg-producing, flesh and bone-forming food, and supplies just what laying hens and growing chicks require. It is not a medicine. It is fed with other foods. Will promote health, growth and vigor. It is the same grade as our Beef Scrap, noted above, only ground finer, and is more suitable for small chicks and mixing with mash food. 5 lbs., 25c. 10 lbs., 40c. 50 lbs., \$1.75. 100-lb. sack, \$3.25.

SPECIAL CUT (Not Ground) ALFALFA

Practically dustless, high color and thoroughly cut, not ground. Sold in 10-lb. packages, 25c.; 50-lb. bags, \$1.25; 100-lb. bags, \$2.25. Special price in half ton and ton lots. Coarse cut, 1 inch long, and fine cut, almost as fine as Alfalfa Meal, only lacking the dust and dirt of regular Alfalfa Meal. Supply limited, so order promptly.

PURITY PIGEON FEED

The mixture contains a great variety of grain and seeds properly balanced under the direction of a successful man who has had years of study and experience with pigeons. No grit. No shell. 1 lb., 5c. 10 lbs., 30c. Per 100-lb. sack, \$2.75.

BONE MEAL FOR POULTRY

This is exactly the same as the Cracked Bone described below, only it is ground much finer. 5 lbs., 25c. 10 lbs., 40c. 50 lbs., \$1.50. 100-lb. sack, \$2.75.

CRUSHED OYSTER SHELLS

It aids digestion as well as supplying lime. Experiments have proved that hens supplied with oyster shells lay more eggs.

We carry two sizes in stock, No. 2 for grown fowls, and No. 3 for young chicks. 5 lbs., 10c. 100 lbs., 60c. 500 lbs., \$2.75. Special prices in larger quantities.

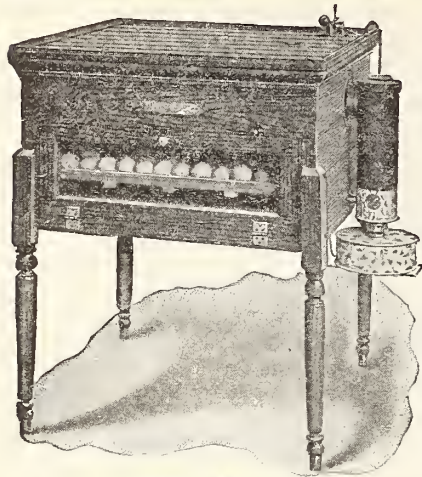
CRACKED BONE FOR POULTRY

This article is manufactured from fresh, clean bones, and is perfectly pure and sweet. No chemicals whatever are applied to them in the course of manufacture. Should be fed to the poultry daily, like grain or any other feed. An excellent bone and egg producer, keeping the fowls strong on their legs and largely increasing their laying qualities. Especially valuable for young and growing chicks. We carry two sizes, No. 1 for grown fowls, and No. 2 for young chicks. 5 lbs., 25c. 10 lbs., 40c. 50 lbs., \$1.50. 100-lb. sack, \$2.75.

MICA QUARTZ GRIT
(Poultry, Pigeon and Chick Sizes.)

Grit is an essential for poultry as food, as without it they cannot digest the food. Poultry will starve to death with full crop for no other reason than they have no teeth with which to grind the food into proper consistency. Grit should be mixed with the food and fed in hoppers or boxes, about one part of grit to fifteen or twenty parts of food. 5 lbs., 15c. 100-lb. sacks, 75c.

PRAIRIE STATE INCUBATORS FOR 1913



Junior No. 2.

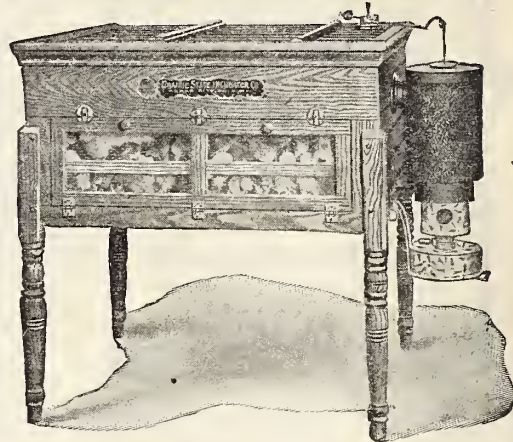
JUNIOR INCUBATOR.

No. 2—115 hen eggs capacity. 95 lbs. crated. \$15.00.

Did you ever notice the hen that steals her nest on the ground? That's natural incubation. And she usually hatches every egg, doesn't she? We've copied her. We use a wet sand tray, covering the entire bottom of the machine in close proximity to the eggs, thus furnishing the proper amount of moisture and reducing the evaporation from the eggs to the same per cent. (9 to 11 per cent.) as under a hen. This insures chicks full of vitality—chicks that live—just like hen-hatched.

To get a high per cent. of "livable" chicks is where the value comes in the Prairie State. Some incubators may bring out nearly as many chicks, but wait ten days or two weeks and then count your chicks. That's the test. It's the number of chicks that live that tells the story of efficiency, owing to the fact that it hatches as near like the old hen as human ingenuity can copy nature. Every chick hatched in a Prairie State Sand Tray Incubator is bubbling over with vitality the minute it pops out of the shell, and you can rest assured it will thrive and grow rapidly.

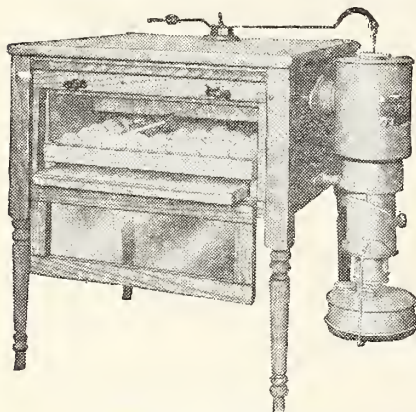
All Prairie State Incubators are of the hot-air type, insuring long life and durability; no tanks to rust out or spring a leak in the middle of the batch. The outside case, etc., is nicely finished in natural wood, unstained. The space between the inner and outer case is insulated with 2 1/4 inches of cotton batting, 3 inches on top. The heating system is a combination of radiant heat on the top of machine with the diffusive system of ventilation. In this respect our machine differs from all others upon the market. No diffusion screens, with their faulty distribution, are used.



No. 2 Incubator.

PRAIRIE STATE INCUBATORS.

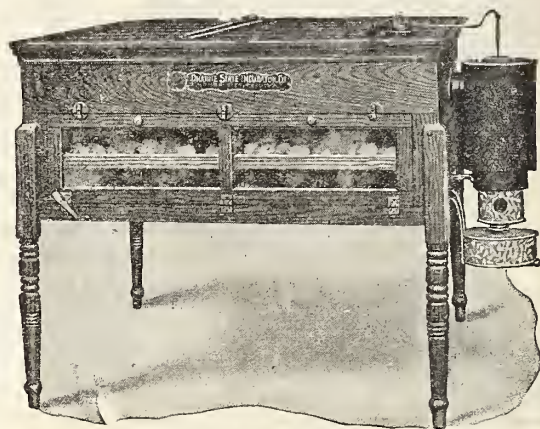
	Price.
No. 0—100 hen eggs; 135 lbs. crated.....	\$18.00
No. 1—150 hen eggs; 160 lbs. crated.....	22.50
No. 2—240 hen eggs; 240 lbs. crated.....	32.00
No. 3—390 hen eggs; 275 lbs. crated.....	38.00



Keystone Incubator

These are hot-air incubators, built of high-grade lumber, double walled and insulated with cotton batting. They have all the modern improvements of more expensive machines, such as sand tray, which is necessary to hatch strong chicks.

Double metal heater on outside of machine with the most successful lamp support ever invented, which centers the lamp and makes it impossible to place same improperly or permitting it to smoke. No springs to get out of order.



No. 3 Incubator.

KEYSTONE INCUBATOR.

No. 0. Weight Crated, 55 lbs.

No. 0, capacity 60 hen eggs. \$8.00

No. 1, capacity 100 hen eggs. 12.00

Prices include all attachments, such as egg tester, thermometer, lamp, tray for eggs and regulator. Guaranteed to be free from mechanical defect. Complete Prairie State Catalogue Free on Request.

EGG TESTER

Price, 25c.
Postpaid, 35c.



Brooder Lamp, complete, 75c. each.
No. 1 Sun Hinge Burner.....25c.
No. 2 Sun Hinge Burner.....35c.
No. 3 Sun Hinge Burner.....50c.
No. 1 and 2 Wicks.....15c. doz.
No. 3 Wicks.....25c. doz.

Prairie State Tested Thermometers

No. 1—Hang-up Thermometer, with wire hanger, each, 60c.; price, postpaid, 70c.
No. 2—Universal; may be used as hang-up, reclining, stand-up or inclining with proper holder. Without holder, each, 50c.; postpaid, 60c.
No. 3—Reclining or lay-down pattern, each, 65c.; postpaid, 75c.
No. 4—Stand-up, with holder, each, 60c.; postpaid, 65c.
No. 5—Incline, with holder, each 60c.; postpaid, 70c.
No. 6—Brooder Thermometer for Prairie State Brooders, each 50c.; postpaid, 55c.

Incubator Lamps

No. 1 Lamp and Burner, using 1/2-inch wick, 60c. each.
No. 2 Lamp and Burner, using 1-inch wick, 65c. each.
No. 3 Lamp and Burner, using 1 1/2-inch wick, 75c. each.

The Ideal Automatic Feeder and Exerciser

This feeder is made so that it can be hung from the ceiling or any suitable place. It will scatter the grain farther than any automatic feeder, and also gives the poultry all the floor space.

Simply fill the hopper with any kind of grain you wish to feed and adjust it to feed any amount you like. Will feed any kind of grain or mixture of grain.

It is the Greatest Labor Saver and Exerciser on the market.

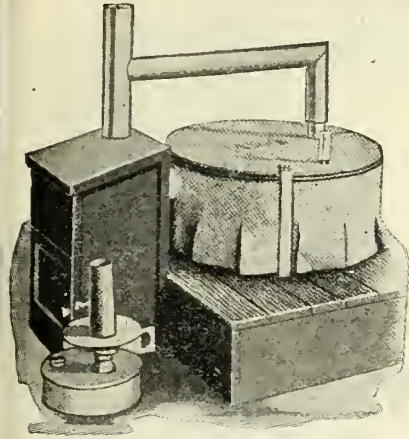
It will pay for itself in six months in saving of feed, and will increase your egg yield 25 to 40 per cent.

No. 1, Size 12 Qts., with Sparrow and Rain Guards complete.....\$2.00

No. 2, Size 20 Qts., with Sparrow and Rain Guards complete.....\$2.75



PRAIRIE STATE UNIVERSAL HOVER



Universal Hover.

It may be attached to any form of outdoor brooder two feet or more in height, to any size or form of colony house, shed, coop, piano, dry goods or organ box. It also enables those who wish to build their own brooders to get the best brooding device possible in an economical manner. It fills that want, felt by everyone who raises poultry, for something they can use anywhere, any time, and do the work well.

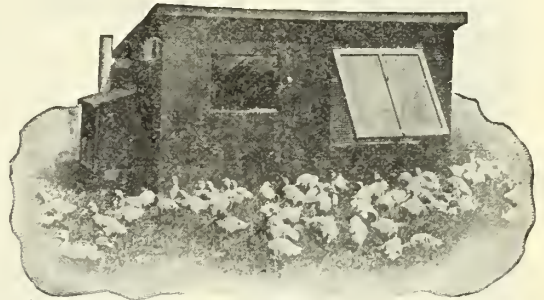
The hover is twenty-two inches in diameter, the top of which is wood, lined with strawboard, a 4-inch rim extending downward, to which is attached six inches of felt curtains. The hover stands on three iron feet, but is not stationary, and may be raised and moved instantly, if desired.

A thermometer is provided, which may be read from the outside without disturbing any part of the brooder. The lamp used is made of metal, using a No. 2 Sun Hinge Burner and a metallic chimney seven inches in length, thus assuring a steady, bright, clear flame; the lamp being on the outside of the brooder in view at all times. Surrounding the hot-air flue or chimney is a fresh-air pipe through which fresh air, slightly warmed, is injected into the upper part of the brooder. This diffuses downward and through the curtains, thus furnishing a perfect system of ventilation. At an additional cost of \$1 to the regular price a standard water regulator may be attached to the hover, by the use of which a uniform temperature can be maintained without close attention. It is not essential, but a great convenience during the cold, changeable weather, and greatly aids the operator in supplying the desired conditions for newly hatched chicks, relieving him of any cause of worry concerning the brood.

UNIVERSAL HOVER—Price for hover, with lamp case, smoke conductors, lamp and thermometer.....\$7.00
 When used indoors alone, lamp case and smoke conductors are not required.
 Hover and lamp..... 6.00
 Hover regulator, \$1.00 extra.

THE COMBINATION COLONY BROODER, No. 1

This Brooder House is constructed of tongued and grooved boards. The brooder is full size in all dimensions, 3 feet wide, 6 feet long and 3 feet high in front and 2 feet in rear, with tin roof. The interior is divided by a movable partition into two compartments—the nursery room and the exercising room or sun parlor. The nursery is double walled, top and sides, with dead-air space and paper insulation between the board partitions, securing warmth and uniform temperature. A strong point in the nursery is the circular hover without obstructions of any kind, such as hot drums or domes, leaving every inch of inside space available for the chicks. It is open all around. No cold corners or hot spots to crowd into. A glass door in front, 22 inches wide, furnishes light and access to the chicks. A movable board under the door brings the opening level with the floor of nursery and permits easy cleaning of the apartment.

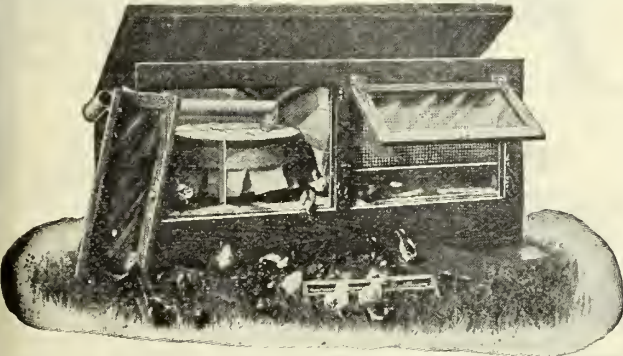


No. 1—Colony (Outdoor). Weight, crated, 300 lbs. \$20.00.

The Combination Colony Brooder, No. 2

This Brooder is similar to the No. 1 in construction and is 60 inches long, 30 inches wide, 20 inches high in rear and 30 inches in front.

The interior is divided into two large compartments by a movable partition—the nursery room, and the sun parlor or exercising room; the floor throughout being on a level and 8 inches from the ground. Between the nursery and exercising room is an opening 18 inches wide, with a wooden door, hinged to open and close at will, so when desired the chicks may be confined in either apartment. With the wooden door opened, the space is covered with a heavy felt curtain, slit for easy passage of the chicks back and forth. Two glass doors, 26x14 inches, furnish access to the chicks confined. A movable board below the glass door brings each opening level with the floor and permits easy cleaning of each apartment.



No. 2—Colony (Outdoor). Weight, crated, 208 lbs. \$16.00.

THE COMBINATION COLONY BROODER, No. 3

The sanitary condition of this brooder is perfect, all parts of the brooder being instantly accessible.

The hover is 20 inches in diameter, of the Universal type. It lifts out, and is provided with a thermometer, by means of which the temperature can be taken without opening the brooder.

The brooder is 27 inches wide, 48 inches long, 19 inches high in the rear and 28 inches high in the front. The lamp is placed in the same position as with the No. 2 Colony Brooder, and burns steadily under most stormy weather of wind or rain.



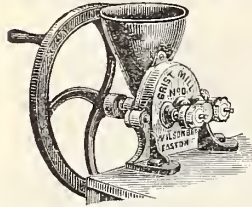
No. 3—(Outdoor). Weight, crated, 150 lbs. \$12.00.

**Heat Regulator attached to any of the above Brooders,
\$1.00 extra**

Keystone Brooder

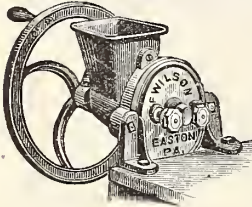
This Brooder can be used indoors as well as outside; is 24 inches wide, 29 inches long, 18 inches high; constructed of 1-inch soft wood throughout and painted. Has galvanized iron roof.
Weight, 59 lbs. Price, \$8.00.

WILSON No. 0 FAMILY GRIST MILL



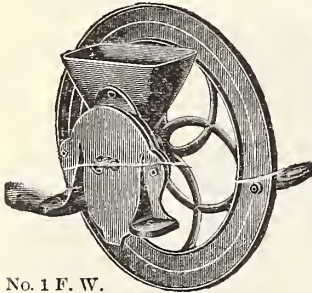
This mill is especially made for grinding Graham Flour or Cornmeal; can be adjusted for cracking grain if desired. **Weight, 30 lbs. Price, \$4.00.** With Iron Stand, **Price, \$6.00.** Weight, 65 lbs.; diameter of hand wheel, 20 inches.

WILSON No. 1 BONE AND SHELL MILL



No. 1—Grinds oyster or clam shells and dried bones, and is an excellent mill and largely used. Will also grind corn. **Weight, without stand, 33 lbs. \$4.00** **Weight, with stand, 64 lbs. \$6.00**

O. D. GRINDING MILL



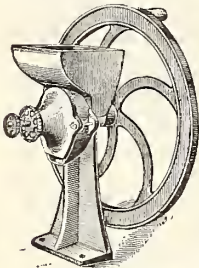
No. 1 F. W.

Capacity 1 to 2 bushels per hour, as the mill may be set fine or coarse. **Note flat construction of balance wheel.** May be adjusted for meal or only cracking the grain.

No. 1 F. W. Fly Wheel. List Price, \$4.50; Our Special Price, \$2.75.

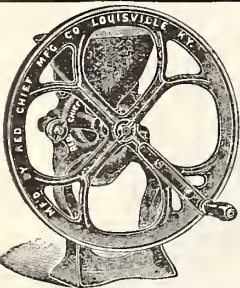
No. 1 C. with crank only, less fly wheel. List Price, \$3.20; Our Special Price, \$2.00.

No. 32 HAND GRINDING MILL



This machine will grind oats, barley, rye, corn, peas, dry bone, shells, etc., for feeding to poultry. It is a well-designed machine, is strong and well made throughout; has a 16-inch fly wheel and is light running. **Shipping weight, 40 pounds. Capacity, 1 to 2 bushels per hour. Price, \$3.50.**

No. 10 RED CHIEF GRINDING MILL



This is an excellent Coffee and Spice Mill for grocers' or family use. It also grinds Chicken Feed or Meal very rapidly. **Capacity, 2 to 4 bushels per hour.**

No. 10, with stand, weight 35 lbs.: Price \$5.00

No. 5, without stand, weight 25 lbs.: Price \$4.00

No. 20 RED CHIEF GRINDING MILL



Combined Hand and Power Mill

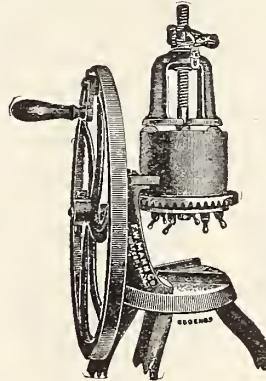
For grinding Cornmeal, Graham Flour, Stock Feed, etc. 300 to 600 revolutions per minute. Will grind 10 to 20 bushels feed per hour; 5 to 10 bushels Cornmeal per hour.

All bearings Bronze Bearing Metal. **Height, 25 ins. Weight, 100 lbs. Price \$15.00**

MANN'S GREEN BONE CUTTER

LATEST MODEL.

The feed is both automatic and self-governing. Cuts all gristle and meat. Nothing escapes uncut.



No. 5 B M.

Diameter of pulley, 15 inches; 3 1/2-inch face; speed of pulley, 300 to 350 revolutions per minute. **Capacity, 100 lbs. and upward per hour. \$26.00.**

No. 5C.—This machine is exactly the same as the No. 5B, with a crank handle instead of a balance wheel. Capacity not quite equal to 5B. **Weight, 35 lbs. \$6.00.**

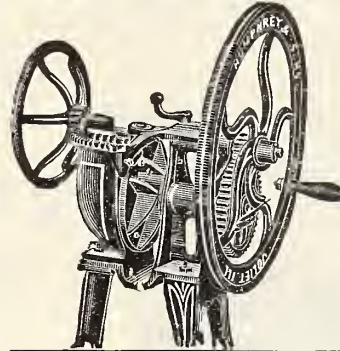
No. 5E.—This machine is exactly the same as the No. 5BM, except that it has not the iron stand. The capacity is the same. **Weight, 60 lbs. \$8.00.**

No. 5EM.—Intended for flocks of 15 to 25 hens. Mounted on iron stand. Cylinder 6 inches diameter, 4 inches deep. Cutter plate has 4 knives instead of 3. **\$10.40.**

No. 7.—Intended for flocks of 40 to 100 hens. Mounted on strong iron stand with large table for box or pan to receive cut bone. **Weight, 107 lbs. Cylinder 7 1/4 in. in diameter, 5 1/4 in. deep. Capacity, 1/2 to 1 lb. per minute. \$12.00.**

No. 11.—Intended for large flocks of over 100 fowls. Capacity 100 lbs. per hour. Horse-power required, 1 to 1 1/2. **Weight, 215 lbs. 300 to 350 revolutions per minute. Capacity, 100 lbs. and upward per hour. \$26.00.**

HUMPHREY GREEN BONE AND VEGETABLE CUTTER



The knives of the Humphrey Cutter act upon the shear principle, producing granulated cutting. **No. 2 1/2** is the same machine as **No. 2**, with the addition of a hand wheel, making it both a hand and power machine.

No. 1 —Hand Power. \$12.00

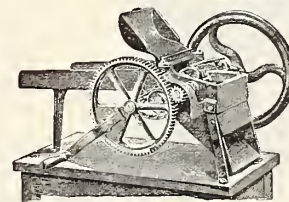
No. 2 —Semi-Power. 13.50

No. 2 1/2—Hand and

Power..... 15.00

No. 6 —Direct Power. \$22.00

POULTRYMAN'S CLOVER CUTTER



Designed for cutting, either green or dry, such growths as clover, alfalfa, vegetable tops, etc. These growths are the cheapest and most productive egg-forming poultry foods for cold weather.

With four 7-in. knives;

weight K. D., 60 lbs. **\$8.50**

Extended shaft and pulley

for power, extra..... **2.00**

Black Hawk



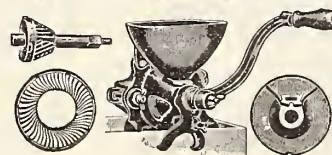
Grist Mill

BLACK HAWK FEED AND GRIST MILL

Just the thing for cracking corn, etc., for poultry. Makes best Graham flour and meal for table use.

Grinds corn, wheat, rye, rice, spices, etc. **Weight, 17 pounds. Price..... \$3.00**

RED CHIEF GRINDING AND FEED MILL



It combines all the elements of rapid work, perfect grinding, and requires little power.

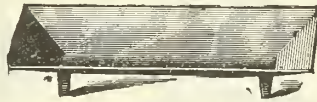
A necessity in every household.

Weight, 15 pounds. Price..... \$3.00

Thompson, Jr., No. 7 Iron Poultry Troughs Root Cutter



No. 7.
This Cutter is adapted especially for poultrymen and farmers or for suburban residents keeping a couple of cows. Cuts roots and vegetables into fine chicken feed. Capacity, one bushel in about five minutes. Weight, 50 lbs. Price, \$5.00.



This is an indispensable article for persons raising poultry. Is readily cleaned, and no leaking.

No.	Top.	Depth.	Length.	Weight.	Price.
1W	3 1/4"	1 1/2"	7 1/2"	3 lbs.	25c.
5W	3 1/4"	1 1/2"	19"	6 1/2 lbs.	40c.
6W	6 1/2"	2 3/4"	22"	12 lbs.	80c.
9W	6 1/2"	2 3/4"	29"	18 lbs.	\$1.00

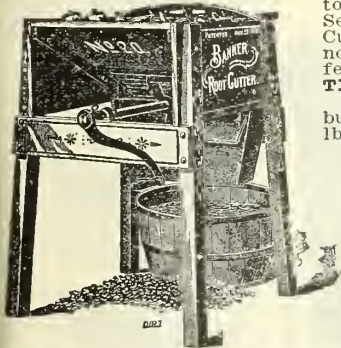
The No. 1W Trough is provided with a lid having three holes, from which chicks can eat the meal without wasting.

Climax Leg Bands



Made of spring brass, and so made that the tag acts as a clasp, holding them securely in place. Price, per dozen, 20c. Per 50, 60c. Per 100, \$1.00.

THE BANNER ROOT CUTTER



Simple in construction. Easy to operate. Has a self-feeder. Separates dirt from cut feed. Cuts with a clean cut. Does not crush, grind or tear the feed.

THE No. 20—FOR HAND USE.
Has a capacity of 30 to 50 bushels per hour. Weight, 120 lbs. Retail price, \$9.50.

Special Discount for Cash.

No. 25.

FOR HAND OR POWER.

This is a new style machine.

It can be used by hand or light power. Is very strong and durable. Capacity, 30 to 60 bushels per hour.

Weight, 100 lbs.

Price with crank.... \$10.00

Price with pulley and crank..... 12.00

THE No. 16—SMALL POWER CUTTER.

With Fly Wheel and Band Wheel.

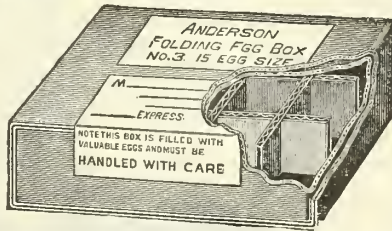
Supplied with crank also for hand use. Capacity by hand, 30 to 50 bushels per hour. Weight, 150 lbs. Capacity by power, 2 to 3 bushels per minute. Our retail price, \$15.50.

Special Discount for Cash.

"THE ANDERSON EGG BOX"

Is made of Corrugated Paper with Double-Faced Corrugated Paper Partitions protecting each individual egg. It is frost-proof. We ship these egg boxes K. D. to save freight.

Per Doz.
15-Egg size... \$1.15
30-Egg size... 1.90
50-Egg size... 2.75
100-Egg size... 4.50



NOTE THIS BOX IS FILLED WITH VALUABLE EGGS AND MUST BE HANDLED WITH CARE

THE EYRIE EGG BOX

Per Doz.	Price
15-Egg size....	\$1.35
30-Egg size....	2.00

The Sefton Live Chick Box

Shipped crated, to save freight.

Per Doz.	Price
25 Chicks. Size 12x 6x5..	\$1.25
50 Chicks. Size 12x12x5..	1.75
100 Chicks. Size 24x12x5..	2.90

METZ'S GAPE WORM EXTRACTOR.

The latest improved method of extracting the Gape Worm. Humane and sure. Directions accompany each instrument. 25c.

PHILADELPHIA GAPE EXTRACTOR, 25c. EACH.



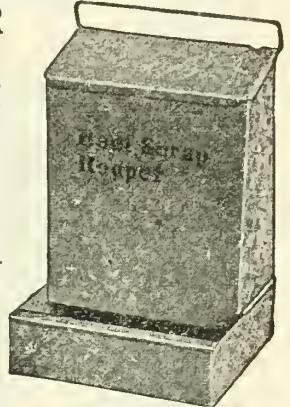
ELECTRIC LIGHTED THERMOMETER

All users of Incubators will at once see the benefit in this **Electric Lighted Thermometer**. All you have to do is to push a button on the battery and the thermometer is lighted up so there is no difficulty to see the temperature at any time day or night.

Thermometer, Electric Light and Battery complete, \$2.50.

BEEF SCRAP HOPPER

This hopper is made of heavy galvanized iron, with lid, handle, sloping bottom and extra deep apron with guard. Taper is from the top down, being larger at the bottom. It will feed beef scrap and dry mash, articles that every user of hoppers knows are difficult to feed. This hopper is a sure and safe feeder, and will not clog. All joints riveted or seamed. Capacity, 10 pounds scrap. Price, each, 75c.



LICE KILLER AND NEST EGG.

Combined in One.

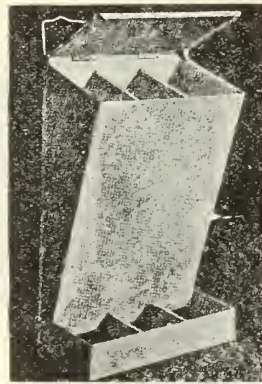
Lasting, effective.

Not expensive.

Does not affect the flavor of the egg nor injure it for hatching.

60c. dozen.

GALVANIZED IRON GRIT AND SHELL BOXES



Price, small size, 3 compartments, 50c. each.

CAPONIZING TOOLS.



You can do your own caponizing easily. Book with full instructions sent free with each set of instruments. Price, with instructions, \$2.75. **Farmers' Caponizing Tools, \$3.00 each.**

French Poultry Killing Knife



Expeditious and humane way of killing and dressing poultry. Price, with instructions, each, 50c.

Nesco Galvanized Drinking Fountains

1 Quart, 25c. Dozen, \$2.50. 2 Quarts, 30c. Dozen, \$3.00. 4 Quarts, 50c. Dozen, \$5.00. 8 Quarts, 75c. Dozen, \$7.50.

BALTIMORE FOUNTAINS.

Earthenware—1 Quart, 25c. Dozen, \$2.50. 2 Quarts, 35c. Dozen, \$3.50. 4 Quarts, 45c. Dozen, \$4.50.

PORCELAIN NEST EGGS.

The best and cleanest nest egg used. Each, 5c. Dozen, 25c. By mail, 50c.

WIRE HEN NESTS.

Each.....15c. Per dozen....\$1.50



LANSDOWNE POULTRY MARKER.

This poultry marker makes the hole without the least exertion. It is made of high-grade steel, nickel-plated. Large or small size, 25c.

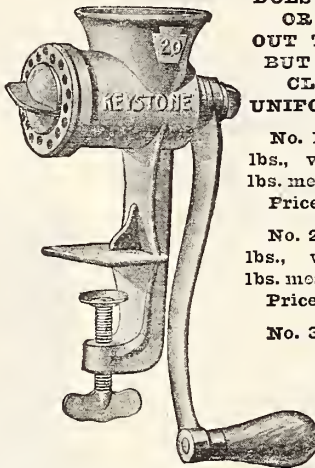
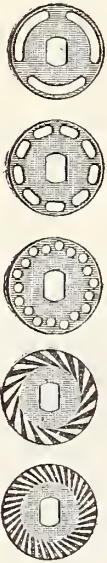


PHILADELPHIA POULTRY MARKER.

For marking young and old chickens. Made in two sizes, for large or small chicks. Sent by mail on receipt of price, 25c.

Keystone Food Chopper

Chops All Raw or Cooked Meats and All Kinds of Vegetables and Fruits.



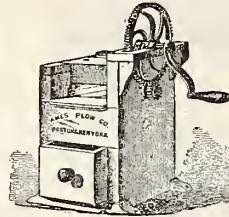
DOES NOT MASH OR SQUEEZE OUT THE JUICES, BUT DELIVERS CLEAN-CUT, UNIFORM PIECES.

No. 10, weight 3 3/4 lbs., will chop 1 1/2 lbs. meat per minute. Price, each, \$1.00.

No. 20, weight 4 1/2 lbs., will chop 2 lbs. meat per minute. Price, each, \$1.15.

No. 30, weight 6 1/4 lbs., will chop 3 lbs. meat per minute. Price, each, \$1.50.

HORSE RADISH GRATER



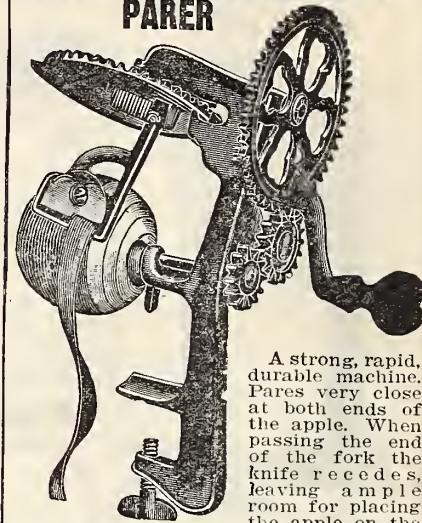
With tin clad cylinder for Horse Radish. Retail \$3.50

With steel pin cylinder for Horse Radish. Retail \$10.00

With steel pin cylinder for Cocoanut. Retail \$11.00

With steel pin cylinder for Horse Radish, with legs, balance wheel, treadle and crank. Retail \$17.00

1898 TURNTABLE APPLE PARER



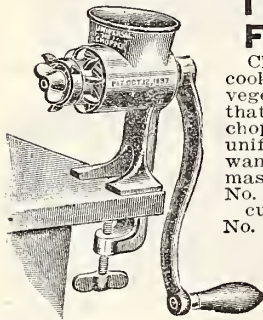
A strong, rapid, durable machine. Pares very close at both ends of the apple. When passing the end of the fork the knife recedes, leaving ample room for placing the apple on the fork. Does not core or slice. Push-off is automatic. Price, 75c. each.

THE UNIVERSAL FOOD CHOPPER

Chops all kinds of meat, raw or cooked, and all kinds of fruits and vegetables—in fact, everything that is ordinarily chopped in a chopping bowl—into clean-cut, uniform pieces, fine or coarse, as wanted, without squeezing or mashing, and with great rapidity. No. 0, Small Family, three cutters \$1.00
No. 1 1.15

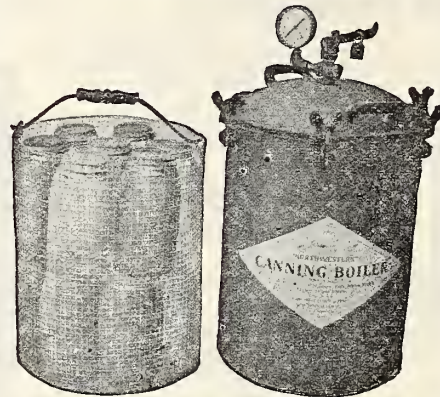
UNIVERSAL MEAT CHOPPERS.

No. 331 \$2.25
No. 333 2.50
No. 304 3.50



HOME CANNING BOILER

A Canning Factory in Every Home



Home Canning Boiler, \$15.00

Will successfully can fruits and vegetables in either tin cans or quart glass jars. Pork and beans, which are so difficult to bake in an ordinary oven, can be very nicely put up in this boiler. About 20 pints can be put up at once, and enough pork and beans for the entire year made in a day. The same applies to tomatoes, corn, asparagus, beans, etc., as well as family preserves, which can be put up with or without sugar, as desired.

The boiler will hold 24 tin cans or 14 Mason quart jars at one loading. The work can be done on an ordinary cook stove or range. With every boiler is sent a complete set of instructions and recipes for putting up the ordinary fruits and vegetables.

SOLDERING OUTFIT FOR TIN CANS, EXTRA, \$10.00

These are the regular canning factory recipes and not the ordinary cook-book style.

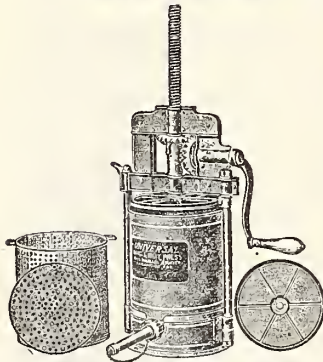
The instructions are so simple that any one with ordinary intelligence and a little precaution can put up canned goods, preserves, jellies and marmalades in as good shape as the finest equipped factory.

The complete outfit consists of boiler, steam gauge, safety valve and crate. Weight, 80 lbs. For persons preferring to use tin cans, a soldering outfit can be furnished at an extra cost of \$10.00, and consists of gasoline blast furnace, two round capping irons and two tipping coppers.

UNIVERSAL ALL STEEL LARD AND FRUIT PRESS AND SAUSAGE STUFFER

This Machine is an unexcelled Lard Press, an equally good Sausage Stuffer, and is also extensively used for pressing the juices from fruit for making jelly, etc. The "Universal Steel Press" has many advantages over the old style cast-iron press. It is unbreakable, rigid and strong, and is more easily handled because it is lighter.

No. 44—4 qts. . . . \$5.50
No. 66—6 qts. . . . 6.25
No. 88—8 qts. . . . 7.00

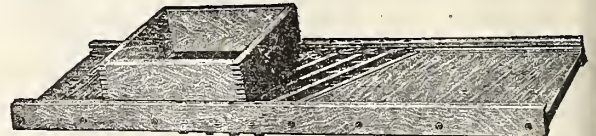


SLIDING KRAUT CUTTER

Sliding Kraut Cutter With Two, Three or Four Knives.

These Kraut Cutters are constructed on the same principle, but are a decided improvement on the old style machines. Each knife is independent of the other and can be quickly adjusted to cut fine or coarse at will.

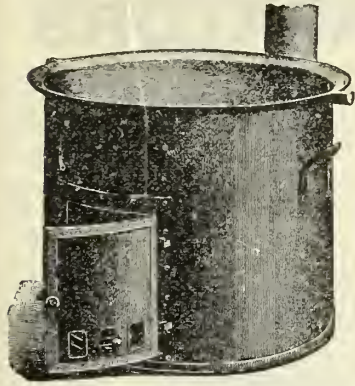
In the old style kraut cutters the knives could rarely be adjusted just right, and if they were, they probably refused to stay. These Cutters are made of heavy hardwood and are fitted with a hardwood box which runs in grooves. Knife perfect, being controlled with 1/4-inch round-head stove belts.



No. 50—2 Knives, 8x26 inches \$1.25
No. 55—3 Knives, 8x26 inches 1.50
No. 65—3 Knives, 9x30 inches 2.75
No. 70—3 Knives, 12x36 inches 3.75
No. 75—4 Knives, 12x36 inches 4.50

G. & T. BOILER AND FEED COOKER

Heavy cold rolled steel furnace; extra large feed door; wrought iron handles, firmly riveted on. Kettles smooth, heavy cast iron. Door, frame and flue collar cast iron. Never buckles or warps from heat; designed to set on ground or brick foundation; especially adapted for cooking feed, rendering lard, making soap, scalding hogs, poultry, etc. Cast iron flues are constructed inside this, retaining heat and economizing fuel. We always ship furnace for wood fuel unless otherwise specified. Also used for lime and sulphur.



Actual Capacity	Diameter of Furnace	Shipping Weight	List Price Furnace with Kettle	Ret'l Price Furnace with Kettle	List Price Kettle only	Retail Price Kettle only
30 gallons.	26 inches.	150 pounds.	\$13.00	\$10.40	\$7.00	\$4.90
33 gallons.	28½ inches.	175 pounds.	14.00	11.20	8.00	5.60
48 gallons.	31½ inches.	200 pounds.	16.50	13.20	12.00	8.40
53 gallons.	32 inches.	225 pounds.	18.00	14.40	13.00	9.10
75 gallons.	36 inches.	275 pounds.	24.00	19.20	18.00	12.60

Furnace with Fire Pot for Coal, add—List Price, \$5.00. Retail Price, \$4.00. You will notice that our kettles are rated at exact capacity.

SEPARATOR BOILER AND STEAM FEED COOKER



Steel boiler with lap-welded flues, well riveted and caked, capable of standing 150 lbs. hydraulic pressure, and carrying steam pressure of 100 lbs. to the square inch. Fire-box provided with grates adapted to burning all kinds of fuel; will cook or steam feed placed in a barrel or vat with but little care and without danger of burning.

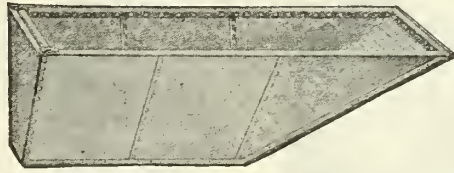
SIZES AND PRICES.

- No. 1—19-in. shell; height over all, 54 in.; 9 flues; 360 lbs. \$35.00.
- No. 2—19-in. shell; height over all, 58 in.; 13 flues; 430 lbs. \$40.00.

Price includes two gauge cocks, blow-off cock, pump, safety valve, 2 ft. 6 in. of suction hose, 3 feet steam pipe, with valve to convey steam to barrel or vat.

Steam Gauge, extra, \$2.50. Water Glass, extra, \$2.00.
Special Price for Cash.

SHEEP DIPPING TANK

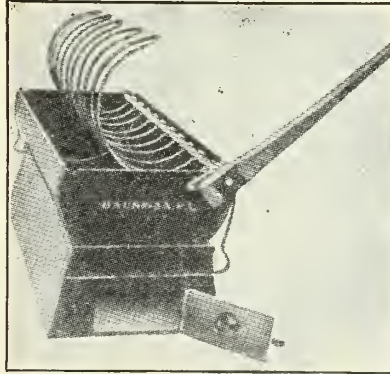


This Galvanized Sheep Dipping Tank prevents waste of dip from leaking, and is more convenient than wooden vats heretofore so generally used for the purpose.

No.	Height Feet		Length in Feet		Width in Ins.		Weight Pounds	List Price	Retail Price
	Top	Bottom	Top	Bottom	Top	Bottom			
711	3½	6	3	30	12	208	\$22.50	\$17.00	
712	4	8	5	20	10	226	29.00	21.75	
713	4	8	5	24	10	230	30.00	22.50	
714	4	8	4	30	10	230	31.00	23.25	
715	4	8	5	30	10	235	31.00	23.25	

The above prices include roller to prevent injury to sheep and to assist in placing them in tank, and detachable metal ladder at opposite end to assist sheep in leaving tank and to reach dripping board.

STEEL HOG SCALDER AND FEED COOKER



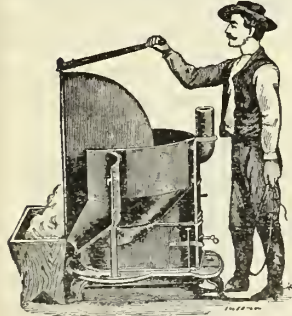
Plain Scalding does very well if placed over a ditch and fire built underneath, but most farmers prefer rack and fire-box complete. Shipping weight, 425 lbs.

Plain Scalding, with legs, 6 ft. x 30 in. x 18 in. deep. List price, \$16.00; our special price, \$14.00.

Fire-box with 5 in. pipe hole. List price, \$13.00; our special price, \$11.75.

Dumping Rack with lever. List price, \$13.00; our special price, \$11.75.

PROFIT FARM BOILER



Showing Dumping Process.

No apparatus has ever been made that is at once so practical and perfect a feed cooker for stock, and as useful for other purposes about the farm and stables; also for cooking lime and sulphur for spraying. The most ignorant farm hand can operate it perfectly without risk to life or property.

It is a simple furnace, with a caldron which dumps, as shown by the cut. The contents can be emptied in one minute, doing away with the slow and disagreeable task of dipping it out. It is thoroughly constructed of the best cast iron. The kettle is cast very smooth, and has an extra thick bottom.

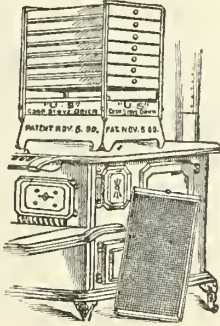
PRICE LIST.

No. 25—25 gallons, for coal	\$23.00
No. 250—25 gallons, for wood	23.00
No. 48—48 gallons, for coal	34.00
No. 480—48 gallons, for wood	34.00
No. 53—53 gallons, for coal	38.00
No. 530—53 gallons, for wood	38.00
No. 75—75 gallons, for coal	46.00
No. 750—75 gallons, for wood	46.00
Coal Fixtures for any size of Wood Boilers	4.00

No Wood Fixtures for Coal Boilers.

Do not carry them in stock, but ship direct from factory.

COOK STOVE FRUIT DRIER



It is a little gold mine. No labor you can perform for cash returns pays as well as that of converting waster fruits into evaporated stock. These products are among the highest priced luxuries in food products. Evaporated peaches, cherries and raspberries, 20 to 25 cents per pound; apples, pears, blackberries, etc., 10 to 15 cents; all salable, or may be exchanged with your grocer for anything he sells. Recall the Waste of Fresh Fruits on the farm or town lot for Seasons Past. Price, \$5.00.

SHARPLES' CREAM SEPARATORS

Among the many points of superiority are, first, the low-down tank supply; is just the right height to be handy and convenient. The base and body of these machines are cast in one piece, making the strongest frame of any Separator made.

The howl is very simple, only three parts, as follows: The bowl proper, a bottom and a dividing wall. The bowl is very easily washed, being free from corrugations or small boles.

One of the greatest drawbacks to disc machines is the multiplicity of parts to be cleaned. Any child can take out, wash and replace the tubular bowl. The bowl is suspended and hangs from a special fine ball bearing, containing nine balls; it hangs perpendicular and cannot get out of the balance, and is held perfectly rigid, overcoming jarring. The bearings are all made of very finest material, machine cut, and run in a perfectly straight line; no vibrations whatever.

There are no bevel gears. The saving in oil is reduced to a point that no other Separator has or can have. There are no oil holes to be searched for; no oil cups to be troubled with, especially in cold weather. The Tubular requires oiling but once a week. The oil is continuously carried up in a spray from the bottom of the gear case and used over and over again. Thorough lubrication is of the utmost importance in high-speed machines like a Cream Separator.

An exclusive idea is the bottom feed principle. Separation begins immediately the milk enters the bowl. With the bottom-feed principle you do not have to remove the supply can to get at the bowl. This is a very important point.

In short, the Sharples Tubular Separator is the least expensive to keep in order, the closest skimmer and easiest to oil of any machine on the market.

Suspended Bowl, Bottom Feed, Low-Down Supply Can, Easy Running, No Discs.



Tubular Hand Separator

No. 1, capacity 175 lbs. per hour. Price \$40.00.

No. 2, capacity 275 lbs. per hour. Price \$55.00.

No. 3, capacity 350 lbs. per hour. Price \$65.00.

These three sizes are readily turned by one who is seated. They stand only 2 ft. 9 1/2 in. high; the supply can is still lower.

STAND UP SIZES.

No. 4, capacity 450 lbs. per hour. Price \$75.00.

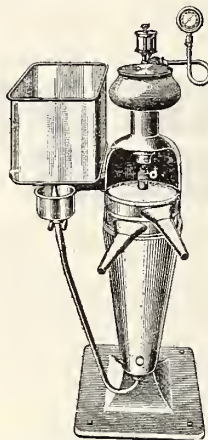
No. 6, capacity 650 lbs. per hour. Price \$90.00.

No. 9, capacity 900 lbs. per hour. Price \$110.00.

Pulley Power Attachment, \$2.50 Additional.

These three sizes stand only 3 ft. 6 in. high; the supply can is still lower.

Steam Turbine Tubular Dairy Separator



Just a jet of steam, not much larger than would go through a straw, drives it to full speed. An armload of wood or a bucket of coal will furnish the needed fuel for the smaller machines for an hour's run.

The bowl when apart has a wide-open mouth, and not much more trouble to clean than a tin cup would be. In cleaning there is no danger of misplacing small complicated parts, for it has no such parts.

This machine stands 36 inches high—requires very little steam—is the most efficient power separator for daily use.

DRIVEN DIRECT FROM THE BOILER. MADE IN THREE SIZES.

No.	Capacity.	Price.
5.	500 pounds per hour.....	\$80.00
7.	700 pounds per hour.....	100.00
10.	1,000 pounds per hour.....	125.00

Either size, with Little Giant Boiler, \$50 extra.

For Separator Boiler, see page 75.

SEPARATOR OIL

1-Gallon Can.....	\$.75
5-Gallon Can.....	2.50

BLATCHFORD'S CALF MEAL

Guaranteed analysis: Protein, 24 to 26 per cent.; Fat, 5 to 6 per cent.; Carbohydrates, 51 to 53 per cent.

THIS IS THE BEST MILK SUBSTITUTE.

Blatchford's Calf Meal is the result of many years' study with farmers, breeders and raisers of stock. It is made in an exclusively Calf Meal

Factory situated where the necessary materials can best be assembled cheaply and in large quantities, selected from the best materials. It is cooked and cooled with all the latest appliances to turn the meal out in the best possible condition.

It is also largely used for feeding colts, pigs, lambs and poultry.

Prices: 25-lb. bag, \$1.00; 50-lb. bag, \$2.00; 100-lb. bag, \$3.50.



Granulated Milk for Poultry



For years poultrymen have been looking for a substitute for animal meal and beef scrap, on account of the offensive odor of the latter, and the uncertainty of keeping it sweet or wholesome during the warm weather. At last the desired object has been accomplished by perfecting a process of granulating a milk product, obtained at the Milk Sugar factories of the United States.

"It is simply concentrated skim milk, but is even much more desirable, because it is in a dry form and can be fed in any desired quantity. Analysis shows it to contain above 45 per cent. protein, about 15 per cent. of which is clear albumen, also 15 to 20 per cent. fat, the balance being ash, lime, etc. It is one of the richest protein foods known, and cannot fail to be admirably adapted to poultry uses. The cost is about the same as beef scrap."

It will increase your egg production from 30 to 40 per cent. over Beef Scrap, and will keep indefinitely in any climate.

Just the thing to keep fowls bright and active.

1 lb., 5c.; 25 lbs., \$1.00; 100-lb. bag, \$3.25.

Milk Protein Mash

This Poultry Mash is made of Granulated Milk thoroughly mixed in a well-balanced proportion with the best of grain, seeds, alfalfa, etc. It has double the value of almost any other mash food now on the market.

5 lbs., 25c.; 50 lbs., \$1.50; 100-lb. bag, \$2.75.

AVERAGE FEEDING TABLE FOR THE AVERAGE CALF. MAKE ALL CHANGES GRADUALLY.

This table is given as a general guide. Calves vary so much in size, strength and digestive capacity that much must be left to the discretion of the feeder, who must bring each calf forward nicely.

Age of Calf.	Quantity and Kind of Feed per Day and How Prepared.	Amount of Each Feed.	No. of Feeds per day and Hours of Feeding.	Remarks.
From Birth to 7 days old.	Whole milk from cow for 5 days, then 4 quarts milk, 1 quart hot water, 3 tablespoonfuls Blatchford's Calf Meal.	1 1/2 quarts milk, 1/3 quart hot water, 1 tablespoonful Blatchford's Calf Meal.	3; morning, noon, night.	Always feed gruel, blood warm. Make all changes very gradually.
7 days to 28 days.	1/2 pint to 1 quart Blatchford's Calf Meal, 1 1/2 quarts milk, 3 1/4 quarts hot water.	1/2 to 1/3 pint Calf Meal, 1 1/4 pints milk, 1 1/4 pints hot water.	3; morning, noon, night.	Keep the calves and their surroundings scrupulously clean. Remove all filth. Use only clean, sweet pails, etc.
1 month to 3 months.	1 quart Blatchford's Calf Meal, no milk, 4 1/2 quarts water, clean, sweet hay.	1/3 quart Blatchford's Calf Meal, no milk, 1 1/2 quarts water, clean, sweet hay.	3; morning, noon, night.	There is less Calf Meal and less milk used in raising a calf on Blatchford's Calf Meal than on any other.

Increase the dry feed as above and reduce the gruel proportionately.

The New Sanitary Cream Separator



STYLE A.

Inside of bottom aluminized to prevent rusting.

1. Milk and water are not mixed.

2. You can draw pure, sweet, undiluted milk for household use any time without disturbing the cream. The skim-milk makes excellent feed for stock.

3. It is a most convenient and labor-saving apparatus for the farmer and dairyman. Saves all lifting, skimming and handling of crocks and pans.

4. Milk vessel is easily and quickly removable without unscrewing the faucet.

5. The faucet is large and short in the neck and drilled out smooth on the inside. Will draw off cream and milk rapidly without clogging.

No.	Description	List Price.	Retail Price.
2½	With 2½-gal. tin milk vessel.....	\$5.00	\$4.00
4	With 4-gal. tin milk vessel.....	6.00	4.80
6	With 6-gal. tin milk vessel.....	7.00	5.60
8	With 8-gal. tin milk vessel.....	8.00	6.40



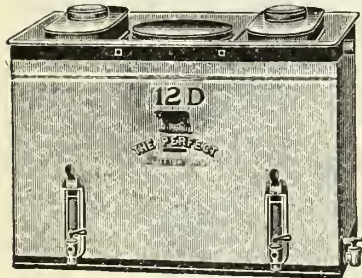
STYLE B.

A very convenient style where larger milk capacity is required. It is made with ample space between the milk vessels to insert a cream can, butter box or cake of ice. It is identical with Style D, except that the cream can is not included.

No. 08—With two 4-gal. tin milk vessels. List price, \$11.00; Retail price, \$8.80.

No. 12—With two 6-gal. tin milk vessels. List price, \$12.00; Retail price, \$9.60.

No. 16—With two 8-gal. tin milk vessels. List price, \$13.50; Retail price, \$10.80.



STYLE D.

This style merits special attention. It is essential to have a place for the cream as well as the milk, for the secret of good butter-making is in ripening the cream. This or the preceding style arranged to connect direct with pump or secure running water. In this way you save nearly all the labor. The average shipping weight is 45 lbs.

	List Price.	Retail Price.
08D—With two 4-gal. tin milk vessels and 4 gal. cream can.....	\$12.00	\$9.60
12D—With two 6-gal. tin milk vessels and 4-gal. cream can.....	13.00	10.40
16D—With two 8-gal. tin milk vessels and 4-gal. cream can.....	14.50	11.60

The "DOTY" Ventilating and Aerating Cream Separator

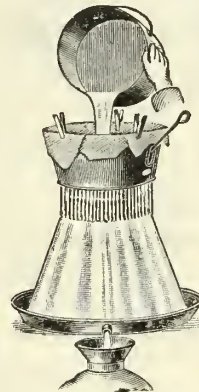


For the benefit of persons who do not object to mixing water and milk for the purpose of facilitating the separation of cream, we offer the Doty Single-Compartment Separator.

Has reversible cover and anti-whirl-pool bottom and approved method of aerating the milk.

No.	Height.	Cap'y, Gals.	Cows.	List Price.	Retail Price.
0	20 in.	6	1 to 2	\$4.00	\$3.25
1	25 in.	10	2 to 3	5.00	4.00
2	27 in.	15	3 to 4	6.00	4.80
3	27 in.	22	4 to 7	7.00	5.60
4	27 in.	29	7 to 10	8.00	6.40

Champion Automatic Milk Cooler-Aerator



To operate—Set as low as possible where there is plenty of pure, fresh air; if the wind blows, the better. It can be used in the strongest wind without a drop being blown away. Use very cold water. Use a cloth or metal strainer over the top of milk receiver.

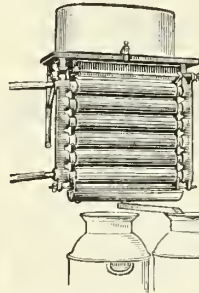
No.	Capacity of Milk Receiver.	Size of Dairy.
2.....	18 quarts	10 to 25 cows
3.....	34 quarts	25 to 50 cows
4.....	52 quarts	50 to 100 cows

No.	Takes Care of	Factory List Price.	Our Special Price.
2.....	3 milkers	\$7.00	\$5.00
3.....	5 milkers	8.00	5.75
4.....	8 milkers	10.00	7.00

Extra sizes on special orders. Prices include double cheesecloth strainer and spring pins.

STRAINERS.—Strainers of the finest mesh wire cloth (100 meshes to the inch) furnished at following prices: Nos. 2, \$1.00. No. 3, \$1.25. No. 4, \$1.50.

ROOT SANITARY COOLER

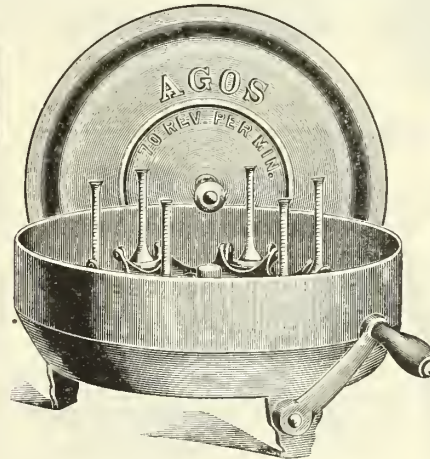


The Root Sanitary Cooler is made of excellent material and workmanship. It is constructed with the latest sanitary ideas, and is first-class in every way.

No.	Cap. Per Hr., Gals.	Cap. of Res., Qts.	No. of Cyl.	Price.
0	20	18	4	\$14.00
1	35	26	6	18.00
2	50	32	6	24.00
3	65	42	6	30.00
3½	85	42	8	45.00
4	120	70	8	70.00

Portable Stand, extra...\$5.00. All coolers are shipped complete with wall brackets unless ordered otherwise.

THE "AGOS" Cast-Iron Frame Hand BABCOCK MILK TESTER



The "Agos" Tester uses the ordinary Babcock bottle, the "B. & W." or the "Ohlson" patent. With each Tester is furnished the following outfit: Full set of regular Babcock milk bottles, pipette, acid measure, acid sufficient for making 50 to 100 tests, and directions for manipulating. They are made in five sizes, as follows:

4 Bottles....	\$8.00
6 Bottles....	9.00
8 Bottles....	10.00
10 Bottles....	12.00
12 Bottles....	14.00

THE BABCOCK MILK TESTER

All Testers are equipped with full set of glassware for testing milk or milk and cream; also furnished with brush and bottle of acid.

No. 4-2 Bottle size for milk only.....	\$4.25.
No. 5-2 Bottle size for milk and cream.....	\$4.75.
No. 6-4 Bottle size for milk only.....	\$5.25.
No. 7-4 Bottle size for milk and cream.....	\$5.75.

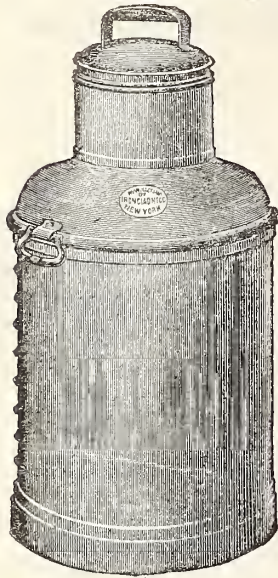
Shipping weight about 17 pounds.

We carry in stock at all times accurate skim-milk bottles that can be used in these machines. Price, 50c. each, \$5.50 per dozen; postage, 10c. for single bottle.

ASEPTIC MILKING TUBES

For Cows with Sore Teats.

Insert one in the teat and the milk will flow. Each, 25c.



BALTIMORE & IOWA PATTERN MILK CANS

The Baltimore Pattern.
This cut illustrates it. It is the standard Baltimore Pattern Milk Can.

Smooth inside surface, without crevices or protruding rivet heads, which enables cans to be easily, quickly and thoroughly cleaned.

THE BALTIMORE PATTERN.

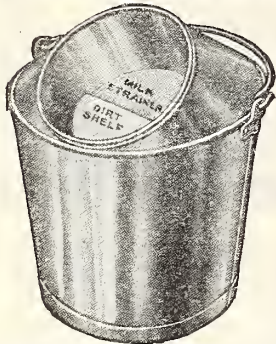
20-quart.....	\$2.50
30-quart.....	2.75
40-quart.....	3.25

IOWA PATTERN HEAVY MILK CAN.

20-quart.....	\$2.00
30-quart.....	3.25
40-quart.....	2.50

Special Prices in Quantities.
Our charge for marking name on can will be 25 cents each. Can furnish cheaper cans. Prices on application.

STERILAC SANITARY MILK PAIL



This Pail has the endorsement of the most progressive dairymen of the country, as well as Health Board officials and physicians. There is absolutely no other way at so small a cost to effectively prevent complaints of retail customers, creameries or milk depots, or to obtain their confidence.

Note the strainer cloth on which the milk strikes.

Note the dirt shelf which catches the dirt falling from the udder. The projecting top shields the strainer cloth from falling dirt.

It is easy to use, because the opening is of ample width. It does not spatter.

Our Special Price, \$2.50.



MILK PAIL

BEST XXX BLOCK TIN.

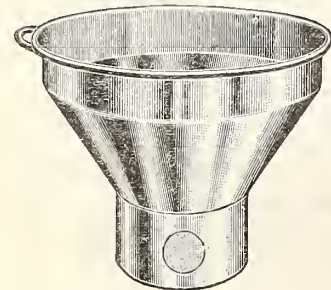
12-quart.....	55c.
14-quart.....	60c.

HEAVY GALV. PAIL.

12-quart.....	50c.
14-quart.....	55c.

WOODEN STABLE BUCKET.
J. I. C. Cedar—Heavy iron-bound stable bucket. Each, 60c.

DOUBLE BOTTOM CEMENT PAIL.
Heavy reinforced Galvanized Cement Pail..... 90c.



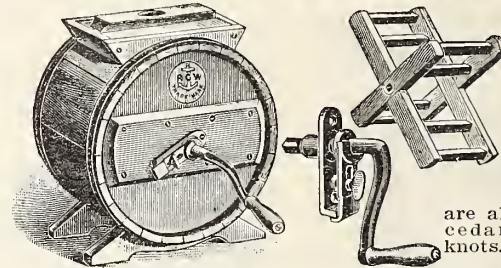
Milk Strainer

These milk strainers are made of extra heavy tin and brass wire cloth. They are warranted not to rust. Made in two sizes—4-quart and 10-quart.

Prices.

4-quart.....	\$.75
10-quart.....	1.50

CEDAR CYLINDER CHURN



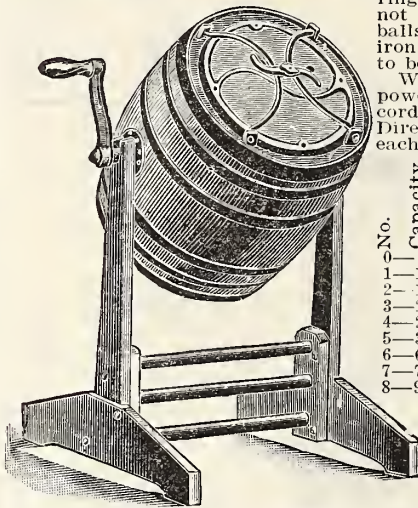
There are a number of Cylinder Churns on the market sold at a lower price, but they are made of pine or other inferior wood, while these are all of selected cedar, free of knots.

No. 1—2 3/4 gallons.....	\$2.50	No. 3—7 gallons.....	\$3.50
No. 2—4 gallons.....	3.00	No. 4—10 1/2 gallons.....	4.00

Baltimore Favorite Churn

It is made of thoroughly seasoned material. It is finished smooth inside as well as outside. The iron ring head is strong and not liable to break. The balls are fastened to the iron ring, where they need to be fastened.

We furnish pulleys for power. Prices extra, according to size desired. Directions for using in each Churn.



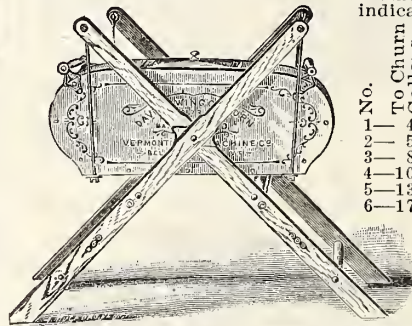
No.	Capacity, Gallons.	To Churn, Gallons.	List Price.	Retail Price.
0	0	0	\$8.00	\$5.00
1	10	10	9.00	5.50
2	15	15	10.00	6.00
3	20	20	11.00	6.75
4	25	25	14.00	8.50
5	35	35	16.00	10.00
6	60	60	26.00	18.00
7	75	75	30.00	19.50
8	90	90	35.00	21.00

10-inch Single Pulleys for above, List, \$3.25. Retail, \$2.00.

DAVIS SWING CHURN

The round ends of the Churn cause the cream as it strikes against them to slide up and over, turning a complete somersault.

Each Churn has a glass indicator in the cover.



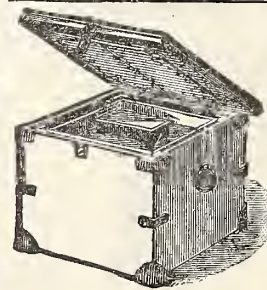
No.	To Churn, Gallons.	Capacity, Gallons.	Weight, Pounds.	Price.
1	4	8	55	\$8.00
2	5	10	59	9.00
3	8	16	73	10.00
4	10	20	85	12.00
5	13	26	98	15.00
6	17	34	112	18.00

Additional for Pulley, 12x3, with attachments, \$4.00.

Additional for Tight and Loose Pulley, 12x3, with attachments, \$5.50.

BUTTER BOXES

These boxes are iron bound at the edges and capped at the corners. An ice box is fitted in the center, which can be removed at will and the space utilized.

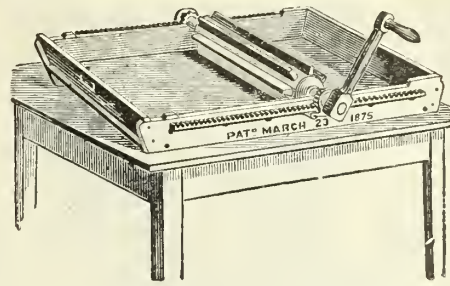
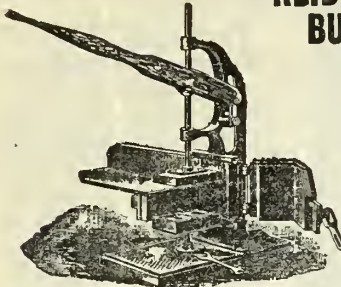


Capacity.	Price.
36 1/2-pound prints.....	\$4.50
64 1/2-pound prints.....	5.25
80 1/2-pound prints.....	5.50
100 1/2-pound prints.....	6.00
120 1/2-pound prints.....	6.50
140 1/2-pound prints.....	7.00
20 lb. prints.....	\$3.75
30 lb. prints.....	4.25
40 lb. prints.....	4.75
56 lb. prints.....	\$5.00
80 lb. prints.....	5.50
96 lb. prints.....	6.00
120 lb. prints.....	\$6.50

REID'S SELF-GAUGING BUTTER PRINTER

Prints butter very neatly and quickly. Weighs into pounds or half pounds as desired. Does it in one-quarter the time it can be done by hand, making prints of uniform weight. Moulds are square.

Either pound or half pound.....\$10.00
Both pound and half pound combined... 13.50
Extra for initials and monograms..... 1.50



Reid's Butter Worker

No. Measurement.	Inside Pounds.	Capacity, Pounds.	Weight, Pounds.	List Price.	Retail Price.
4—14x24x2 1/2 in.	10	10	20	\$6.00	\$4.20
3—17x27x2 1/2 in.	20	20	25	7.00	5.60
2—20x36x2 1/2 in.	30	30	29	8.00	6.40
1—23x36x2 1/2 in.	50	50	45	10.00	8.00

Larger size, especially designed for mixing, reworking and coloring, or creamery use.

No. Measurement.	Inside Pounds.	Capacity, Pounds.	Weight, Pounds.	List Price.	Retail Price.
0—23x37x3 in.	75	75	60	\$12.00	\$9.40
00—23x56x3 in.	112	112	80	15.00	11.25
000—23x72x3 in.	150	150	100	18.00	13.50

When desired, we can send legs along with any size machine for \$4.00 extra, which can be set up after arrival at destination.

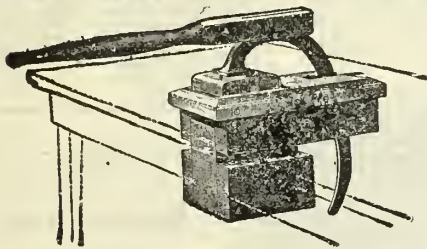
LA FAYETTE BUTTER PRINTER

This is also self-gauging. Intended for use in creameries, but more especially for reprinting. Very simple and handy.

Either pound or half pound, with table, \$15.00.

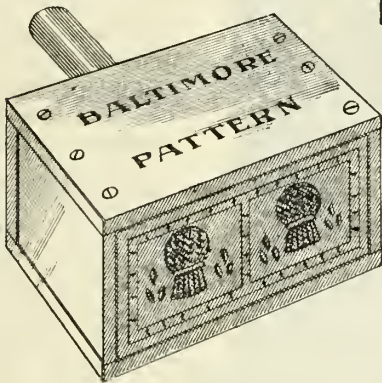
Either pound or half pound, without table, \$10.00.

Extra for initial or monogram, \$1.50.



Balto. Pattern Hand Made Butter Print

This Butter Print is hand made out of solid hardwood, and is put together with brass screws, making it indestructible. Being a two-piece print makes it very handy to use. 1/2 lb. Sheaf of Wheat Print, \$1.00; 1 lb. Sheaf of Wheat Print, \$1.50; 1/2 lb. Special Print, Carved with Initial, \$2.00; 1 lb. Special Print Carved with Initial, \$2.50.



WELLS, RICHARDSON & CO.'S BUTTER COLORING

Will not color the buttermilk; will never turn rancid; gives the brightest and best color; butter never becomes reddish; perfect economy in use. It is cheaper than any other coloring, being put up in three sizes, selling at 25c. to color 500 pounds; 50c. to color 1250 pounds; \$1.00 to color 2800 pounds.

PARCHMENT BUTTER PAPER

It can be used in all cases where wax paper, tin foil or muslin has been adopted, and in many cases where these cannot, for preserving goods from the effects of moisture, etc. In sheets 24x36, or can furnish the paper cut in the following sizes without extra charge: 6x9 for half pounds, 9x12 for one pound, and 10x15 for two pounds. Price, 20c. per pound; by mail, 35c.; 6 pounds, \$1.00.

FLOATING GLASS DAIRY THERMOMETERS



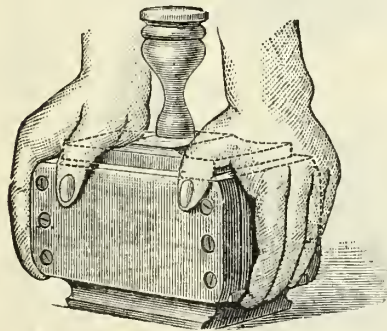
8-inch. Price 25c. each.
10-inch. Dairy Thermometer, stands boiling water, price 50c. each.

Milk Hydrometer, No. 2080, 40c.
Milk Hydrometer, No. 2085 (Quevenne), 75c.
Add 8 cents each if by mail.

Extra Heavy Brick Butter Mould

Philadelphia Pattern, 1/2 pound...\$1.00
Philadelphia Pattern, 1 pound... 1.50

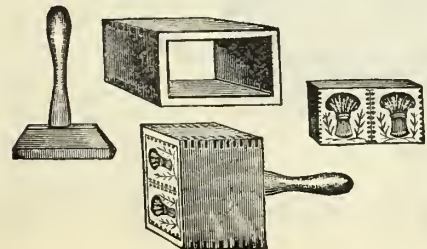
Can furnish square moulds to order with initials cut at an extra cost of \$1.00.



BRICK BUTTER MOULD

SEELEY PATTERN.

Furnished with sheaf of wheat. Movable block.
1/2 pound.....60c.
1 pound.....75c.



Round and Square Butter Moulds



Fig. 2.



Fig. 3.

Fig. 2—R. & B., 1/2 pound, round... \$.25
Fig. 2—R. & B., 1 pound, round... .30
Fig. 3—R. & B., 1/2 pound, square... .30
Fig. 3—R. & B., 1 pound, square... .35

Round prints, 1/2 pound.....\$.10
Round prints, 1/4 pound..... .10

Individual Butters

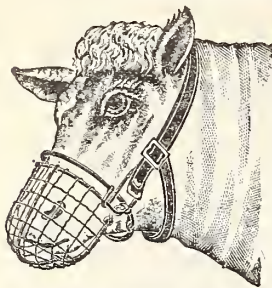
Square, 1/2 ounce.....\$.15
Square, 1 ounce..... .15
Round, 1 ounce..... .10

Ladles and Spades

4x12 Butter Spade...10c.
No. 1 Butter Ladle...15c.

Polished Maple Bowls

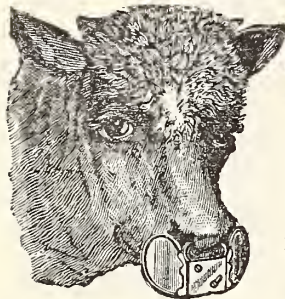
Bowls, 15 inches...35c.
Bowls, 17 inches...55c.
Bowls, 19 inches...75c.



SHAW'S CALF WEANERS

The Shaw's Calf Weaner is thoroughly practical. The action is entirely in the basket, it being hinged to the end of the nose piece. The basket is made of heavy galvanized wire, with extra bars running through. The halter that goes over the neck is made of solid leather, and can be adjusted to suit the calf's head.

Prices: No. 1, 25c.; No. 2, 35c.; No. 3, 50c.



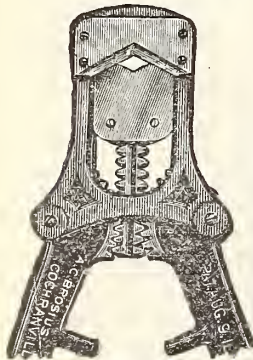
RICE'S CALF WEANERS

Also Prevents Cows from Sucking Themselves.

No. 1, for Calves, Retail price, 25c. List price, per doz... **\$3.50**

No. 2, for Heifers, Retail price, 40c. List price, per doz... **6.00**

No. 3, for Cows, Retail price, 60c. List price, per doz... **8.50**



KEYSTONE DEHORNING CLIPPER

The practice of dehorning cattle is coming more into vogue. It is a mercy to the animals. Prevents goring. The blades on the Keystone are made of best steel. No twisting motion or second cut on horn. Parts are all interchangeable, and can be replaced. It is approved by veterinary surgeons and leading dairymen. The horns must go, and they cannot go too soon.

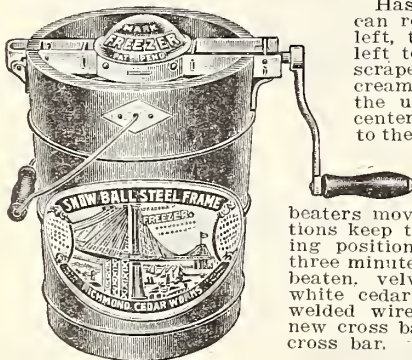
Clipper, with leader and rope, extra blades and screw, fully warranted. List Price, **\$19.20**. Our Special Price, **\$12.00**. Clipper alone, List Price, **\$16.00**. Our Special Price, **\$10.00**.

DOMINION DAIRY AND HOUSEHOLD CLEANSER

An improved cleanser and purifier for all dairy and household purposes. Just the thing for Churns, Pails and anything used in dairies. For household use, laundry work, all kitchen use, house-cleaning, public buildings, hotels and factories.

Dissolves with greatest ease in either cold or hot water, and rinses off perfectly clean without leaving a soapy scum. Price: 5-lb. bag, 25c.; 25-lb. bag, \$1.00; 100-lb. bag, \$4.00.

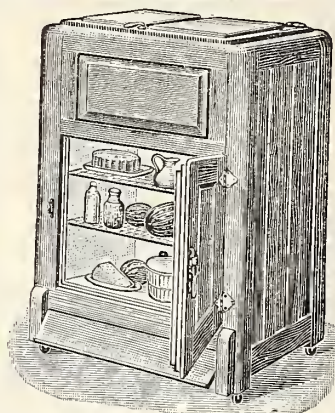
"SNOW-BALL" FREEZER



Has three motions. The can revolves from right to left, the outer beater from left to right, the two wood scrapers removing the frozen cream from the sides with the unfrozen cream in the center, and throws all back to the side to be again frozen and removed by the scrapers. The continuous action of the can and two

beaters moving in opposite directions keep the cream ever changing position, producing in about three minutes a very smooth, well-beaten, velvety cream. Virginia white cedar, bound with electric welded wire hoops. Fitted with new cross bar lock and reinforced cross bar.

List.	List.	Retail.	Retail.
1 qt. \$1.80	4 qt. \$3.15	1 qt. \$1.50	4 qt. \$2.75
2 qt. 2.25	6 qt. 4.00	2 qt. 2.00	6 qt. 3.50
3 qt. 2.70	8 qt. 5.10	3 qt. 2.30	8 qt. 4.00



White Mountain Refrigerators

SOLID STONE-QUARRIED—SNOW WHITE
Artistic Rounding Corners

The real extreme of beauty, of compactness—our Solid Oak "Stone White" case now brought out in gracefully rounding corners—that is, the front blends right into the cover in a full, easy curve, eliminating all moldings and adding a tone of solidity and general beauty to the already strikingly handsome "Stone White."

You must see the "Rounding Corner" as we make it to appreciate the statements above.

Solid Bronze turn-buckle or lift and massive "stop" hinges. Every interior part removable.

No.	Lbs. Ice	Length	Depth	Height	List Price	Special Price
902	50	25 in.	19 in.	43 in.	\$53.25	\$29.25
903	75	28 in.	21 in.	45 in.	59.25	32.50
904	100	31 in.	22 in.	47 in.	65.75	36.00

If with cooler, add to list **\$9.50**. Special price, **\$5.25**.



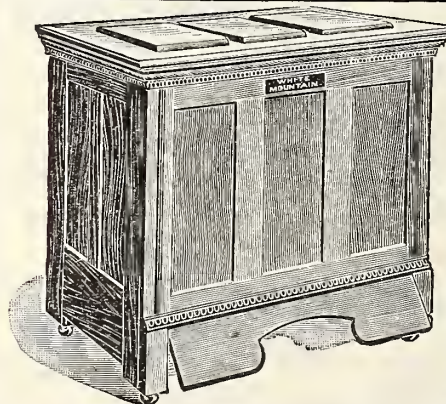
"New Hampshire" Pine

This Refrigerator Preserves Food as Well as Any More Expensive Refrigerator

Beautiful Pine; massive double walls interlined with heavy sheathing of charcoal and with deep, dead-air space; every joint tongued and grooved; no wooden surface to absorb impurities. Provision chamber of heavy galvanized steel, steel shelves, free action durable casters, massive door and cover, case of thoroughly seasoned Pine, finished in dark "Golden Oak."

No.	Lbs. Ice	Length	Depth	Height	List Price	Special Price
101	30	24 in.	18 in.	38 in.	\$18.50	\$10.25
102½	60	27 in.	20 in.	42 in.	24.25	13.25
104	100	33 in.	21 in.	45 in.	29.75	16.25

If with cooler, add \$9.50 to list. Special price, **\$5.25**.



"White Mountain" Hardwood Ice Chest

Our superior Hardwood Ice Chest in three nicely graded sizes, each conveniently arranged and easily cleaned. "Golden Oak" finished case, has extra thick and thoroughly insulated walls. Shelves and ice rack of galvanized steel. Made to excel in economy, food preservation and handsome appearance.

No.	Depth	Height	Length	List Price	Special Price
13	21 in.	33 in.	33 in.	\$23.50	\$13.00
14	22 in.	35 in.	36 in.	27.00	15.00
15	24 in.	37 in.	39 in.	30.75	17.00

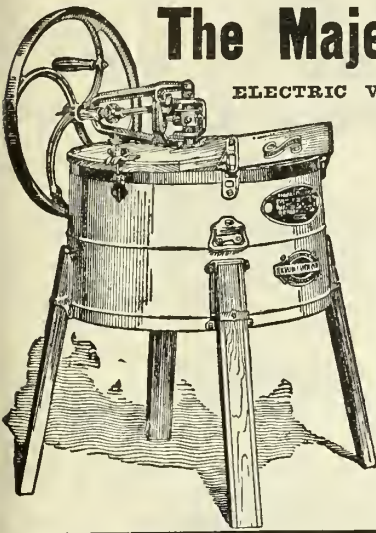
The Majestic ROTARY WASHER

ELECTRIC WELDED WIRE HOOPS.

VIRGINIA WHITE CEDAR TUB.
ROLLER BEARINGS.

This is the lightest-running and easiest-working Washing Machine made. Roller bearings; no friction. Works in both directions. Very simple; nothing to get out of order. Nicely corrugated on sides and bottom. Hoops are galvanized wire, and are welded by electricity; these are much stronger than the old style flat hoops, and CANNOT DROP OFF, being sunk in grooves.

OUR SPECIAL PRICE,
\$7.00.

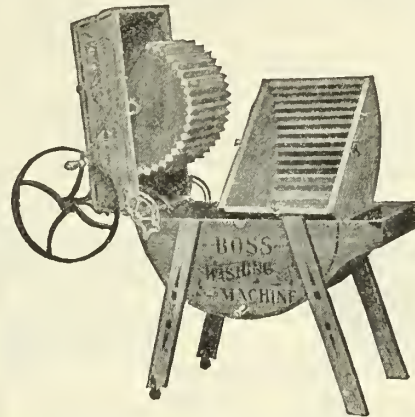


THE BOSS WASHER

This washer has two semi-circular rubboards which oscillate in opposite directions, rubbing, squeezing and turning the clothes between, just as the washer-woman does in the old time washboard method, which every woman knows is the only way to get clothes clean.

Made of Louisiana Red Cypress Wood, natural finish. All iron parts exposed to water are electro-galvanized to prevent rust. No complicated mechanism to break or get out of order.

It is practical, dependable and efficient.



- No. 1—Capacity, 10 shirts; weight, 100 lbs. Price.....\$7.50
- No. 2—Capacity, 12 shirts; weight, 105 lbs. Price..... 8.50
- No. 3—Capacity, 15 shirts; weight, 110 lbs. Price..... 9.50

BALTIMORE CEDAR WASHER

ELECTRIC WELDED WIRE HOOPS.

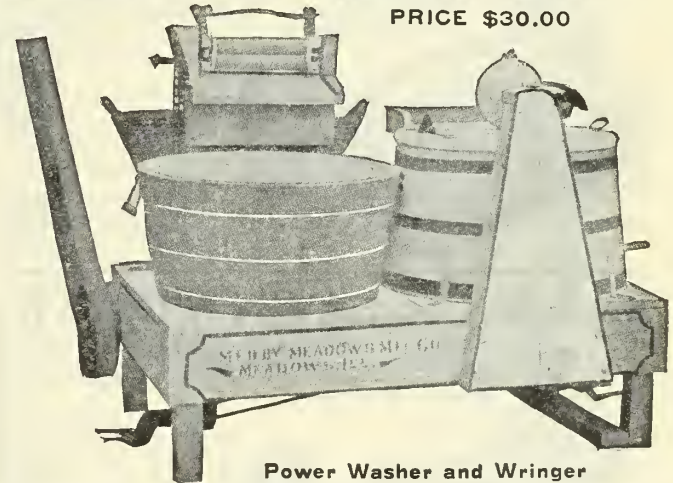
OUR SPECIAL PRICE
\$4.00

Constructed of best white cedar; improved gearings; all castings japanned. Inside fully corrugated like a wash board; no nails; no crevices for dirt, and allowing no steam to escape or water to leak. A square galvanized iron rod, instead of wood, to work the dolly; this can be lowered or raised without moving tops. Accommodates itself automatically to quantity of clothes. Impossible to tear the most delicate fabric. Our Special Price, \$4.00.



MEADOWS POWER WASHER AND WRINGER

PRICE \$30.00



Power Washer and Wringer

Something that will interest the wife of every farmer who has a gasoline engine.

This combination makes a very desirable light power laundry outfit. Extra tub and basket not included. No blue Monday where a Meadows Washer is used.

Price, complete, \$30.00.

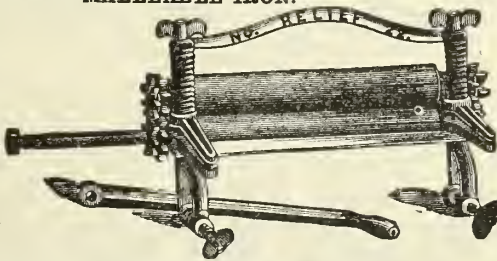
THE MARYLAND WASHER

To meet the demand for a low-priced Washer, we offer the Maryland, which is made of pine instead of cedar, but in all other respects is the same as Baltimore Cedar shown above. OUR SPECIAL PRICE.....\$3.50

RELIEF WRINGER

FRAME MADE ENTIRELY OF WROUGHT AND MALLEABLE IRON.

Thumb-nuts and spiral springs; pressure can be adjusted quickly for either heavy or light work; rolls never overstrained; wear longer than ordinary iron frame wringer; cog wheels.



- Packed four and six in a case.
- No. 330—SMALL FAMILY—Size of Rolls, 10x1 3/4-in.\$3.50
 - No. 332—LARGE FAMILY—Size of Rolls, 12x1 3/4-in. 4.25
 - No. 330 Rolls, 10-inch, each..... 1.75
 - No. 332 Rolls, 12-inch, each..... 2.00

BICYCLE WRINGERS

- No. 122—Steel ball bearings; steel spiral springs; galvanized malleable iron frame. Warranted three years.
- No. 122—Size of rolls, 10x1 3/4-inch. Our special price, \$3.75
- No. 770—Cog-wheel shields; steel ball bearings; flat steel springs. Warranted three years. Wood frame.
- No. 770—Size of rolls, 10x1 3/4-inch. Our special price, \$4.00
- Extra Rolls, No. 122..... 1.75
- Extra Rolls, No. 770..... 2.00

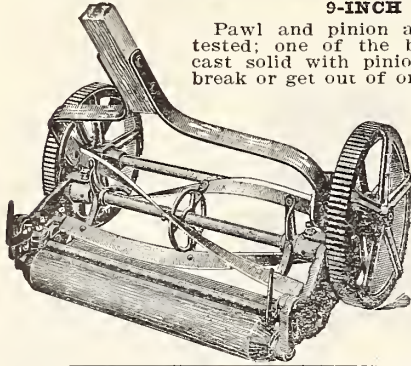
SUPERIOR WRINGERS

Name	Size of Rolls.	Price.
Superior, No. 210.....	10x1 3/4-inch.....	\$3.25
Superior, No. 212.....	12x1 3/4-inch.....	4.00
CRESCENT —Same as Relief, but cheaper grade rolls.		
No. 130.....	10-inch.....	3.00
No. 132.....	12-inch.....	3.75
STAR —No. 10.....	10x1 3/4-inch.....	2.00
EXTRA ROLLS —		
Superior.....	10-inch.....	1.75
Superior.....	12-inch.....	2.00

NEW NORKA MOWER

9-INCH WHEEL.

Pawl and pinion attachment thoroughly tested; one of the best. Ratchet Clutch, cast solid with pinion; no extra pieces to break or get out of order.



Do not class with the cheap low-wheel machines.

Regular.

10 in.....	\$3.25
12 in.....	3.50
14 in.....	3.75
16 in.....	4.00
18 in.....	4.50

Ball Bearings.

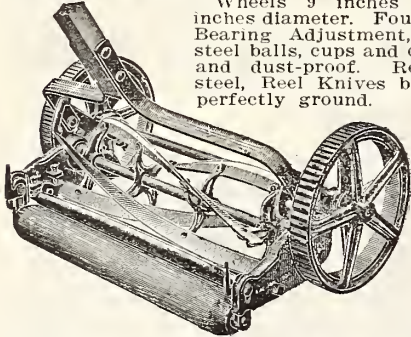
14 in.....	\$4.75
16 in.....	5.00
18 in.....	5.25

LITTLE SHAVER MOWER

Low priced and good. 12 in., \$2.50. 14 in., \$2.75. 16 in., \$3.00.

"NEW ELECTRIC" MOWER

Wheels 9 inches diameter. Reel 5 1/2 inches diameter. Four blades. Special Ball-Bearing Adjustment, high-grade hardened steel balls, cups and cones, ground, polished and dust-proof. Reel shaft cold rolled steel, Reel Knives best grade Knife Steel perfectly ground.



Regular.

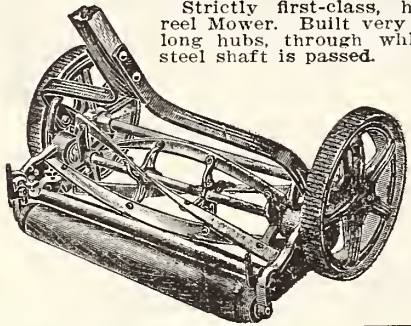
12 in.....	\$4.50
14 in.....	4.75
16 in.....	5.00
18 in.....	5.25

Ball Bearing.

12 in.....	\$5.50
14 in.....	5.75
16 in.....	6.00
18 in.....	6.25

W. & B. JR. LAWN MOWER

Strictly first-class, high-wheel, adjustable reel Mower. Built very strong. Casings have long hubs, through which an 11-16 in. solid steel shaft is passed.



Regular.

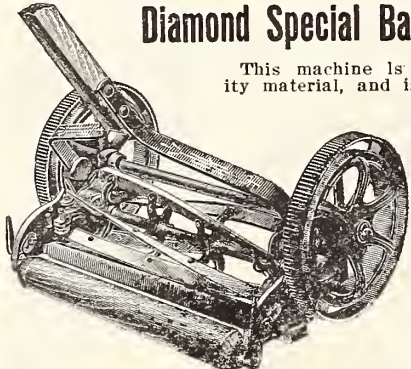
14 ins.....	\$6.50
16 ins.....	7.00
18 ins.....	7.50
20 ins.....	8.00

Ball Bearing.

14 ins.....	\$7.50
16 ins.....	8.00
18 ins.....	8.50
20 ins.....	9.00

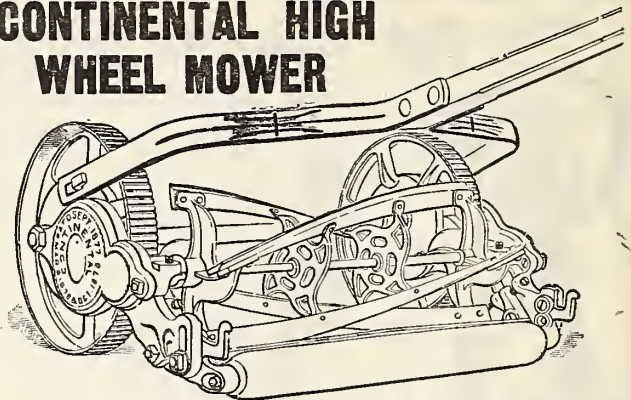
Diamond Special Ball-Bearing Mower

This machine is built of highest quality material, and is fitted with Ball-Bearing Adjusting Device. The balls, cups and cones are of high-grade, uniformly hardened, polished and dust-proof. The reel has **five blades** of best knife steel, and is adjusted to the Cutter Bar by a special adjusting and locking device. **Wheels, 10 inches in diameter.**



14 ins.....	\$9.75
16 ins.....	10.50
18 ins.....	11.25
20 ins.....	12.00

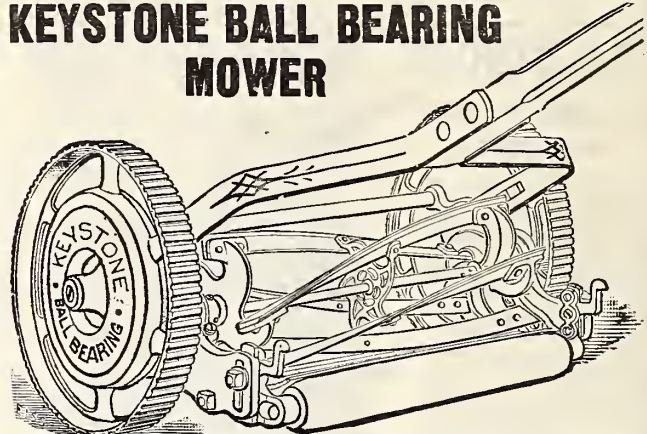
CONTINENTAL HIGH WHEEL MOWER



This very high grade machine will cut fine grass two inches high; also grass six to eight inches. We highly recommend this machine.

15 ins.....	List \$25.00	Retail \$12.50	19 ins.....	List \$31.00	Retail \$15.50
17 ins.....	28.00	14.00	21 ins.....	34.00	17.00

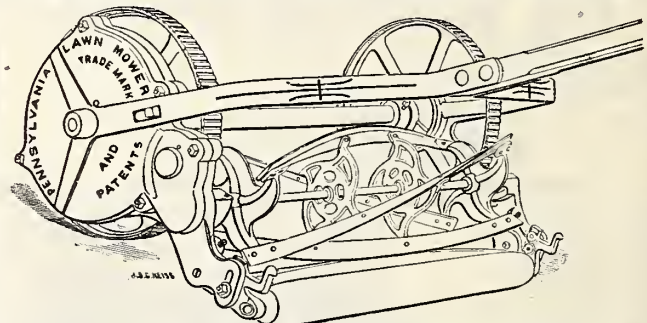
KEYSTONE BALL BEARING MOWER



Every detail of this Mower is in keeping with the high grade of the Pennsylvania and Continental. Can be regulated to cut from 3/8 to 1 1/2 inches from the ground.

15 ins.....	List \$25.00	Retail \$10.50	19 ins.....	List \$31.00	Retail \$15.50
17 ins.....	28.00	12.00	21 ins.....	34.00	17.00

PENNSYLVANIA HIGH WHEEL MOWER



This high-grade Mower is constructed for cutting ordinary grass, as well as grass from 6 to 10 inches high. Wheel, 10 1/2 inches; cylinder, 6 1/2 inches. Four crucible steel knives.

15 ins.....	List \$25.00	Retail \$12.50	19 ins.....	List \$31.00	Retail \$15.50
17 ins.....	28.00	14.00	21 ins.....	34.00	17.00

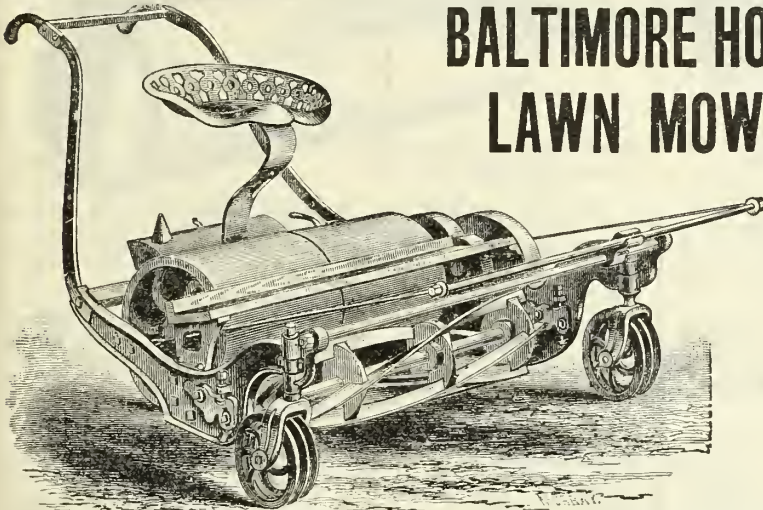
Philadelphia High Wheel, STYLE E

15 ins.....	List price, \$25.00	Retail price, \$9.50
17 ins.....	List price, 28.00	Retail price, 10.50
19 ins.....	List price, 31.00	Retail price, 11.50
21 ins.....	List price, 34.00	Retail price, 12.50

LAWN MOWER REPAIRING AND SHARPENING

SEND in your LAWN MOWERS early for sharpening and repairing. This department, in season, is run to its full capacity, and in consequence we are compelled to adopt the policy of "first come first served." We wish to urge upon our friends the necessity for complying with the above request, and if they do no one need have to wait while the grass is growing. Look over your machine during the winter (this applies to other kinds of machinery as well as Lawn Mowers), and see what repairs are needed. Do not wait until spring work is crowding you. We employ efficient mechanics to do our machine repairing, and turn out jobs in the best possible manner and as expeditiously as the quality of the work will admit. To properly sharpen a Lawn Mower requires someone who thoroughly understands his business, and even though it may be properly sharpened, unless it is adjusted to a hair it will not cut. After we turn out a machine it should be severely let alone, and if it does not cut send it back to us, and do not attempt to adjust it yourself. There is no mower that leaves our shop that is not adjusted to cut tissue paper, and if it does not do the work satisfactorily it is owing to hard usage before reaching its destination. The cheap machines that are flooding the market are made of cheap material and will wear only a short while, and can rarely be repaired at all.

BALTIMORE HORSE LAWN MOWER



The Baltimore Horse Lawn Mower is made of best material; most satisfactory adjustment of knives; strong and durable; open castor wheels which do not press down the grass; heavy roller, which is a necessity to keep the lawn in good order; simplest and strongest machine in construction on the market, and most economical as far as repairs are concerned.

It is made with shafts and seat, and also with draft rod. For hilly lawns, we recommend shafts and seat, but for level lawns with many trees and shrubbery, we recommend the draft rod, as it enables the driver to work the machine close to them. See it work, and you will be convinced that it is the most practical machine made.

25-inch Machine, with draft rod.....	Our Special Price, \$42.50.	Factory List Price, \$65.00
30-inch Machine, with draft rod.....	Our Special Price, 63.00.	Factory List Price, 100.00
30-inch Machine, shafts and seat.....	Our Special Price, 68.00.	Factory List Price, 110.00
35-inch Machine, shafts and seat.....	Our Special Price, 80.00.	Factory List Price, 135.00

Special Discount for Cash.

NEW "PENNA. GRAND" HORSE MOWER

The high-grade material and workmanship of this Mower are characteristic of all machines of this make.

The wheel at the right of the driver's seat regulates the height of cut from 3/8 inch to 2 7/8 inches. The operator, without leaving his seat, can instantly change from low to high cut.

Diameter of cylinder, 7 1/2 inches. Diameter of drums or rollers, 15 inches.		Complete with Seat, Shafts, etc.	
With Handles and Draft Irons Only.			
30-inch Cut.	Our Spe'l Pr.	Fac. List Pr.	Our Spe'l Pr.
4 Knives, shipping wt., 595 lbs.....	\$75.00	\$100.00	Wt., 635 lbs.... \$90.00
6 Knives, shipping wt., 605 lbs.....	34.00	112.50	Wt., 645 lbs.... \$99.00
38-inch Cut.	Our Spe'l Pr.	Fac. List Pr.	Our Spe'l Pr.
4 Knives, shipping wt., 675 lbs.....	\$97.50	\$130.00	Wt., 720 lbs.... \$112.50
6 Knives, shipping wt., 705 lbs.....	107.00	142.50	Wt., 750 lbs.... 122.00

PENNSYLVANIA REGULAR HORSE MOWER

Furnished with handles and draft irons, the latter arranged to swing to the side, thus permitting the horse to walk on the cut grass.

30-inch—Factory list price, \$100.00.	Our special price, \$70.00.
38-inch—Factory list price, \$130.00.	Our special price, \$91.00.

30-inch—Weight, 358 lbs.; 4 knives.
38-inch—Weight, 400 lbs.; 4 knives.

For shafts, seat and footboard, add Factory list price, \$20.00; Our special price, \$14.00.

PHILADELPHIA EAGLE HORSE MOWER

The latest production of the Philadelphia Lawn Mower Co. in horse mowers, and, in our opinion, one of the best machines they ever produced.

30-inch, with seat and shafts and draft pole.	Factory list price, \$100.00.	Retail price, \$75.00.
35-inch, with seat and shafts and draft pole.	Factory list price, \$125.00.	Retail price, \$95.00.
40-inch, with seat and shafts and draft pole.	Factory list price, \$150.00.	Retail price, \$112.50.

OLD STYLE PHILADELPHIA HORSE MOWER

Cylinder open or solid, with 4 blades, for 30-inch only.
Cylinder open on 35-inch only.
Height of Driving Roller, 11 1/4 inches. Diameter of Cylinder, 6 5/8 inches.
30-inch, with draft pole. Factory list price, \$100.00. Our special price, \$67.50.
35-inch, with draft pole. Factory list price, \$120.00. Our special price, \$80.00.
30-inch, with seat, shafts and side-draft attachments. Factory list price, \$120.00. Our special price, \$80.00.
35-inch, with seat, shafts and side-draft attachments. Factory list price, \$140.00. Our special price, \$94.00.

SIMPLEX GRASS CATCHER

This Hook bolts to Mower for attaching Catcher.

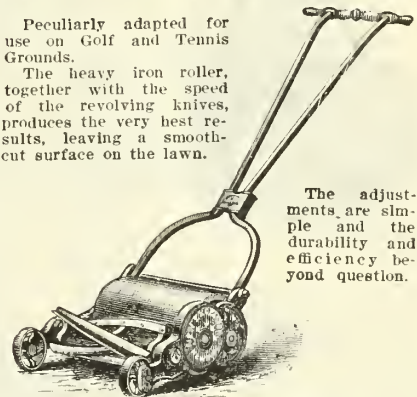


No. 1—For 12, 14, 16-in..... \$.85
No. 2—For 16, 18, 20-in..... 1.00
Will fit any mower made; instantly attached and detached; canvas body; galvanized iron bottom; combining strength with lightness.

GOLF ROLLER MOWER

Peculiarly adapted for use on Golf and Tennis Grounds.

The heavy iron roller, together with the speed of the revolving knives, produces the very best results, leaving a smooth surface on the lawn.



The adjustments are simple and the durability and efficiency beyond question.

PRICES	Factory List Price	Our Special Price
--------	--------------------	-------------------

10-inch, 4 blades.....	\$13.00	\$9.10
12-inch, 4 blades.....	15.00	10.50
14-inch, 4 blades.....	17.00	12.00
16-inch, 4 blades.....	19.00	13.00
18-inch, 4 blades.....	21.00	15.00
20-inch, 4 blades.....	23.00	16.00

For 6 blades, add to Factory List Price \$1.00.
For Retail, add 70c.

HORSE LAWN BOOTS

Fastened firmly to hoof instead of around ankle, giving free action to horse's feet. Rolling toe prevents cutting of turf. Width inside, No. 2, 5 1/2 inches; No. 4, 6 1/2 inches; No. 6, 7 inches—the right sizes for Nos. 2, 4 and 6 horseshoes. No. 0 Mule and No. 1 Pony. Special sizes to order. Width inside, 4 inches; 4 1/2 inches. Factory list price, \$17.00. Our special price, per set, \$9.50.

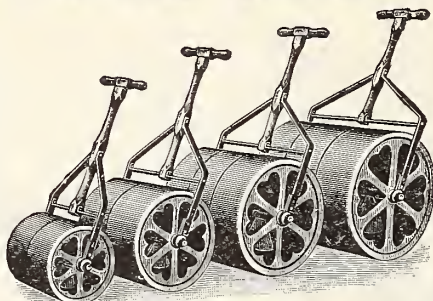


special sizes to order. Width inside, 4 inches; 4 1/2 inches. Factory list price, \$17.00. Our special price, per set, \$9.50.

Hand Lawn Roller

CAST IRON.

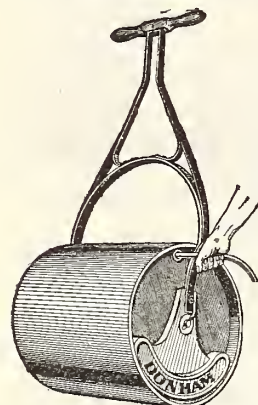
These rollers are especially desirable; they will not dent; wet grass and dirt do not cling to them, owing to their highly polished surface and rivetless ends. Have counterbalance, which holds up the handle and makes it easy to push.



We can furnish the above rollers to weigh 50, 100 or 150 pounds more than the weights given, for which add 4c. per lb.

No.	No. Sec.	Width Face.	Diam. Sec.	Total Length.	Weight.	Factory List Price.	Our Special Price.
4 or 404	2	10 in.	20 in.	20 in.	250 lbs.	\$15.50	\$12.50
6 or 406	3	8 in.	20 in.	24 in.	300 lbs.	18.50	14.75
9 or 409	2	10 in.	24 in.	20 in.	400 lbs.	24.50	19.50
11 or 411	3	8 in.	24 in.	24 in.	450 lbs.	27.50	22.00

The Water Ballast Lawn and Garden Roller



Only a moment's time required to obtain any weight from 115 pounds to 1/2 ton.

Drum barrel is carbon, 12-gauge sheet steel cold pressed heads, drum ends of same thickness; heads are boiler riveted on to drum face plate, and whole interior of drum treated with an anti-rust preparation.

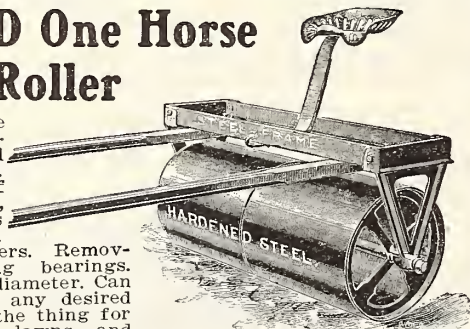
Entrance for weighing material provided for by 3/4-inch hole drilled through one of cast shoulder hubs.

To weight machine, turn on end, remove pipe plug, insert garden hose or use pail and funnel, fill drum to any desired weight, weight applied directly to point of contact where it is most needed.

Order No.	Diam. of Drum.	Length of Drum.	Wt. of Tool Empty.	Wt. Filled With Water.	Wt. Filled with Sand.	Factory List Price.	Our Special Price.
WB7	24 in.	24 in.	125 lbs.	500 lbs.	800 lbs.	\$17.00	\$12.75
WB9	24 in.	32 in.	140 lbs.	650 lbs.	1000 lbs.	19.00	14.25

Gritco-D One Horse Lawn Roller

Shafts are made very substantial and well braced. Double leaf spring seat, therefore less jar than on other lawn rollers. Removable self-oiling bearings. Axle 1 3/4-inch diameter. Can be weighed to any desired weight. Just the thing for small farms, lawns and truck farms.

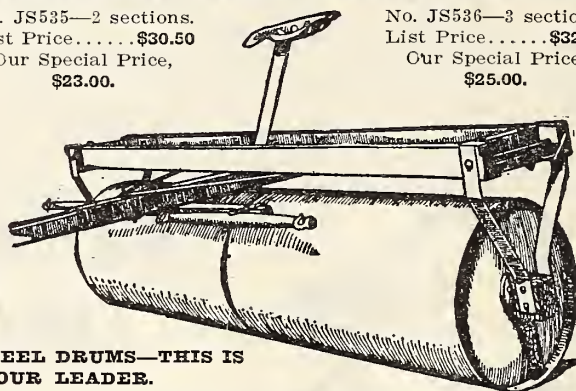


Length, Feet.	Diameter, Inches.	No. of Sections.	Factory List Price.	Our Special Price.
4	24	2	\$27.00	\$20.00
4	24	1	25.00	18.00

Gritco-D Steel Land Rollers

No. JS535—2 sections.
List Price.....\$30.50
Our Special Price,
\$23.00.

No. JS536—3 sections.
List Price.....\$32.00
Our Special Price,
\$25.00.



STEEL DRUMS—THIS IS OUR LEADER.

Drums are 24 inches in diameter, of special high carbon steel, with closed ends pressed from the same material.

Bearings.—Both of these machines are furnished with removable bearings that will hold nearly a teacup of oil, therefore noiseless.

Axle.—The axle is 1 3/4-inch round Machine Steel, and extends the full length of machine. It is held in place by cotters.

Frame.—The frame is made of heavy angle steel, which forms a very convenient weight box if extra weight is required. These frames are special high carbon steel and will not bend.

Spring Seat.—The seat is furnished with a brace, which adds to its length.

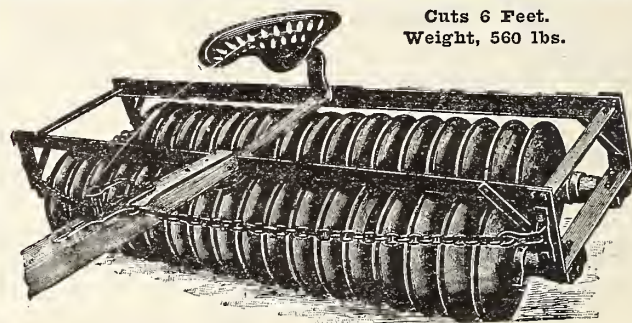
No.	Length, ft.	Diam., ins.	Sections.	Weight, lbs.	Factory List Price.	Our Special Price.
JS535	8	24	2	560	\$30.50	\$23.00
JS536	8	24	3	585	32.00	25.00

Gritco Wood Stave Land Roller

This **Oak Stave Roller** has cast-iron closed ends. The staves are made of well-seasoned oak, and are firmly held together by bolts. The frame is made of solid wood. The axle and bearings are similar to steel rollers described above. Length, 8 feet; Diameter, 24 inches; Sections 2. List Price, \$31.50; Our Special Price, \$24.00.

Gritco Pulverizer, Clod Crusher, Roller and Leveler

Cuts 6 Feet.
Weight, 560 lbs.



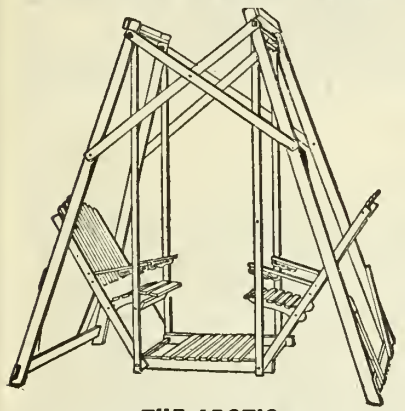
Composed of two sets of hollow-disk rollers which turn upon revolving axis, one row being placed directly behind the other, thereby covering every inch of ground and effectually pulverizing hardest clods, at same time subjecting ground to a pressure and packing soil couple of inches below surface, enabling it to retain moisture; at same time leaving surface loose, meadow and level for reception of seed. Most pulverizers tear up soil and leave it too loose to retain moisture, or allow roots to obtain a firm hold, while others, in their attempt to pack soil, will press clods beneath surface, thereby leaving it in an undesirable condition for reception of seed, and if a harrow is put over the field again all clods come to surface and field is as rough as ever.

List Price, without pole...\$60.00 Our Special Price...\$34.00
List Price, with pole.... 65.00 Our Special Price... 36.00

Special Discount for Cash.

We can also supply cheaper Pulverizers and Clod Crushers, but do not carry them in stock. We ship them direct from the factory. Write for special prices and particulars.

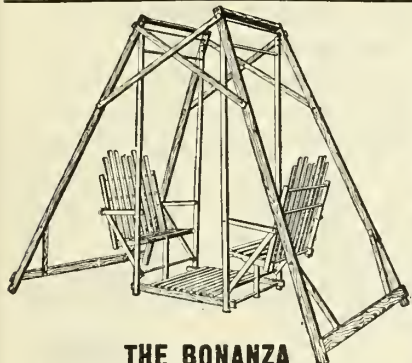
LAWN SWINGS



THE ARCTIC

Selected stock, very strong. Chairs have three adjustments. Foot-rest can be raised level with seats to form hammock. Can adapt height of seats for children. Two and four passengers.

	List Price.	Our Spec'l Price.
Two-passenger, weight 125 lbs.	\$11.50	\$7.00
Four-passenger, weight 160 lbs.	15.50	9.00



THE BONANZA

Made of hardwood with bolted frame. Has three seat and footrest adjustments. Frame painted red; balance of the swing, golden oak finish, and will not stick to clothes. Has malleable hooks where swing bars bang on iron rods at top of frame.

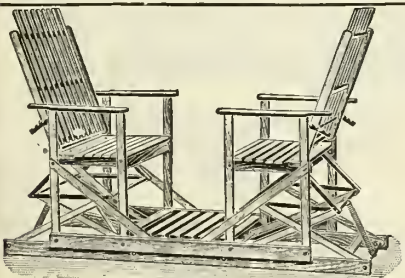
	List Price.	Our Spec'l Price.
Two-passenger	\$8.00	\$5.00
Four-passenger	10.00	6.50

"OZONE" STEEL LAWN SWING

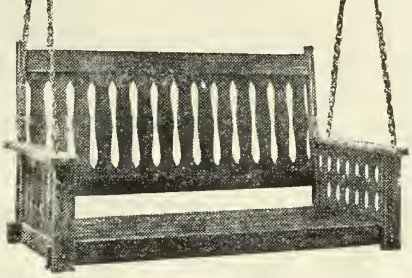
Made of 35 carbon steel throughout except seats and platform, which are made of 3/4-in. hardwood. Height, 9 ft. 8 ins.; width of seats, 34 ins.; height of backs above seats, 30 ins. It is nicely finished. Weight, 224 lbs. Four-passenger, List Price, \$19.00; Our Special Price, \$12.50.

ARCTIC SWINGING CHAIR

The Latest Design for a Swinging Chair Yet Produced. Occupies a space about six feet long by three feet wide and about six feet high. Made of the most substantial material. List Price, \$6.50. Our Special Price, \$4.00.



No. 8 MISSION PORCH SETTEE



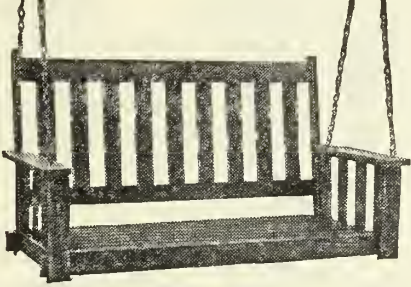
1 1/2-inch oak stock, very strong and substantial, mission effect, smooth and well finished, saddle seat. Put together with rods and bolts. Ceiling hooks and galvanized chains with each settee. Enough slant in back to make it most desirable and comfortable.

	List Price.	Our Spec'l Price.
No. 8-4-foot	\$11.00	\$6.75
No. 8-5-foot	14.00	8.50
No. 8-6-foot	17.00	10.50

No. 1 Porch Settee, similar to No. 8, but without underneath braces.

	List Price.	Our Spec'l Price.
No. 1-4-foot	\$10.00	\$6.25
No. 1-5-foot	13.00	8.00
No. 1-6-foot	16.00	10.00

No. 7 PORCH SETTEE



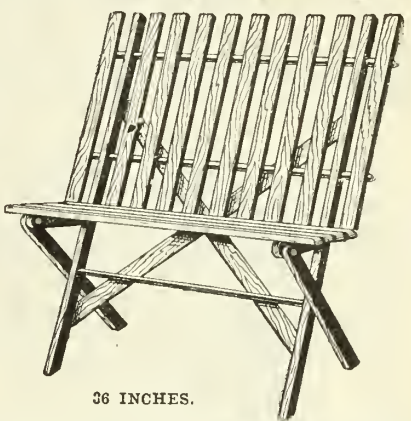
Very popular and durable. Finished in weathered oak. All slats bolted to frame; no rivets.

	List Price.	Our Spec'l Price.
No. 7-4-foot	\$7.00	\$4.25
No. 7-5-foot	8.50	5.00
No. 7-6-foot	10.00	6.00

No. 3 Porch Settee, similar to No. 7, but without end braces.

	List Price.	Our Spec'l Price.
No. 3-4-foot	\$6.00	\$3.75
No. 3-5-foot	7.50	4.50
No. 3-6-foot	9.00	5.50

LAWN SETTEE



36 INCHES.

High back, easy rest. Finished in golden oak or painted red. Heavy slats are used in these settees; nothing cheap about them. Have the right shape for solid comfort. The best low-priced settee on the market. Can be folded flat when put away for the winter.

	List Price.	Our Spec'l Price.
Golden Oak, each	\$1.60	\$1.00
Painted Red, each	1.70	1.10

PORCH CHAIR

Has 4 adjustments, and back can be let down to almost horizontal position. Substantially made and finished in Golden Oak. Suitable for the house as well as porch or lawn.



List Price, each, \$1.70. Our Special Price, each, \$1.10.



Baltimore Lawn Settees

CLARKE.

Attractive and gives plenty of room. Just the thing for parks, porches, picnic grounds, hotels, cemeteries, etc. Painted bright red and varnished.

	List Price.	Our Spec'l Price.
Four feet	\$5.50	\$3.50
Five feet	6.80	4.25

"E-Z" GLIDER SETTEE, 4-PASSENGER

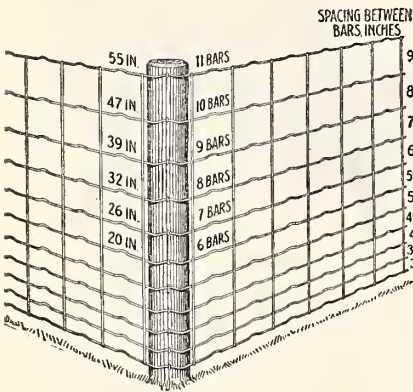
Perfectly Level Glide. No Up and Down Motion. Practically Noiseless. Simple in Construction. Easiest in Operation. Quietest in Movement. Roomiest While Occupying the Least Space. For the Lawn, Porch, Summer Resort, Club-Room, Rest-Room, Etc. Furnished With or Without Canopy.

Perfection obtained in simplicity of construction, ease of operation, and movement. Extreme length of base, 6 ft. 10 in.; swing operates inside length of base. Extreme width of swing, 3 ft. 4 in.; width of seats, 2 ft. 8 in.; depth of seats, 17 in.

Hardwood construction and finished weathered oak. Finish that clothes won't stick to. List, each, \$18.00; Our Special Price, \$11.00. Canopy extra, List, each, \$8.00; Our Special Price, \$5.00.

"PITTSBURGH PERFECT" ELECTRICALLY WELDED FENCE

A GREAT IMPROVEMENT HAS BEEN MADE IN THE MANUFACTURE OF PITTSBURGH PERFECT FENCE. ALL OF THIS FENCE IS NOW MADE OF OPEN HEARTH WIRE AND IS IMMEASURABLY SUPERIOR TO THE STEEL WIRE USED IN OTHER MAKES OF FENCE. SEND FOR CIRCULAR GIVING REPORT OF GOVERNMENT EXPERT IN REGARD TO THIS WIRE. THIS FEATURE AND THE ELECTRIC WELD, WHICH DOES AWAY WITH THE MOISTURE HOLDING WRAPS, MAKE THIS FENCE SPECIALLY DESIRABLE.



REGULAR FENCE



Top and Bottom No. 9
"JUMBO" FENCE



Top and Bottom No. 9

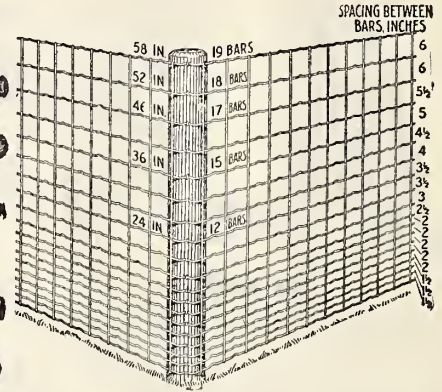
SPECIAL POULTRY AND GARDEN



Top and Bottom No. 11



Top and Bottom No. 10



PRICE LIST OF REGULAR FENCE.

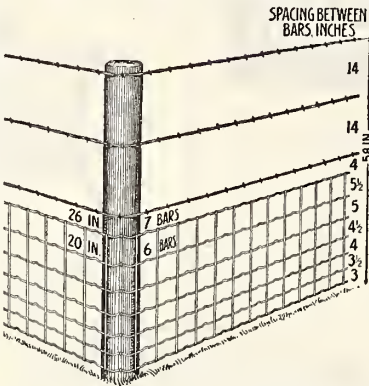
Style No.	Height.	No. of Strands.	Price per rod with stays 12 in. apart.		Price per rod with stays 6 in. apart.	
			List.	Retail.	List.	Retail.
5511	55 in.	11	\$.95	\$.38	\$1.25	\$.50
4710	47 in.	10	.85	.34	1.12	.45
399	39 in.	9	.76	.31	.98	.40
328	32 in.	8	.67	.27	.87	.35
267	26 in.	7	.59	.24	.75	.30
*499	49 in.	9	.82	.33	1.06	.43
*458	45 in.	8	.74	.30	.96	.39
*356	35 in.	6	.59	.24	.77	.31

Extra Heavy and Jumbo Fence quoted on application. Illustration shows spacing of all above styles except those marked (*), which are spaced as follows from bottom up:

- No. 499—4 in., 4 1/2 in., 5 in., 5 1/2 in., 6 in., 7 in., 8 in., 9 in.
- No. 458—4 1/2 in., 5 in., 5 1/2 in., 6 in., 7 in., 8 in., 9 in.
- No. 356—5 1/2 in., 6 in., 7 in., 8 in., 9 in.

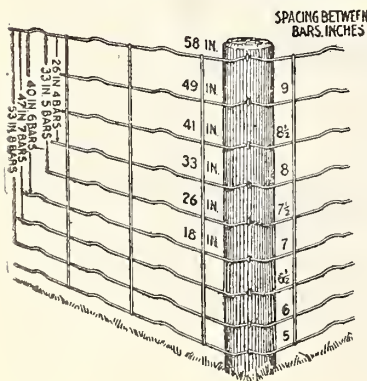
Write for catalogue.

WE SHOW HERE HOW THE LOWER PITTSBURGH FENCES CAN BE USED WITH BARBED WIRE ABOVE.



PITTSBURGH SPECIAL JUMBO FENCE

All No. 9 Open Hearth Wire in "Pittsburgh Perfect" Special "Jumbo" Fence.



Something we have been wanting for a long time. It is the best moderate-priced stock fence we have ever offered. All wires No. 9 galvanized and so distributed that it is just the thing where a strong lasting fence is wanted. We list the most popular styles.

Style No.	Height in ins.	Inches bet. Stays.	List Price per rod.	Retail Price per rod.
538	53	24	93c.	38c.
477	47	24	81c.	33c.
406	40	24	69c.	28c.

IMPROVED "PITTSBURGH PERFECT" POULTRY AND GARDEN FENCE

Spacings Between Strands from Bottom to Top in Inches: 1 1/2-1 1/2-1 1/2-2-2-2-2-2 1/2-3-3 1/2-3 1/2-4-4 1/2-5-5 1/2-6-6. A close and effective Poultry Fence, and is amply strong to keep out or fence in Horses, Hogs, Cattle or Dogs.

Regular Style.—Top and Bottom Wire No. 10; all other wires No. 13. Special.—Top and Bottom Wire No. 11; all other wires No. 14.

Style.	Hgt.	No. of Strands.	per rod	Regular.		Special.	
				List.	Retail.	List.	Retail.
5819	58	19	per rod	\$1.34	\$.54	\$1.08	\$.44
5218	52	18	per rod	1.26	.51	1.00	.40
4617	46	17	per rod	1.17	.47	.93	.38
3615	36	15	per rod	1.02	.41	.64	.34

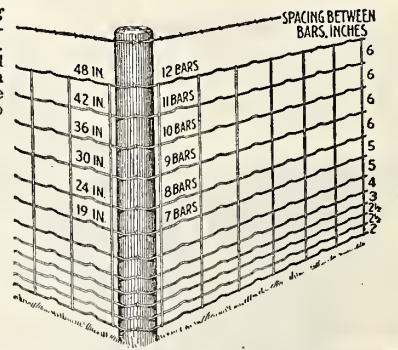
"PITTSBURGH PERFECT" Razorback Hog Fence

The "Pittsburgh Perfect" Razorback Hog Fence fills a peculiar position in the fence field. There has been a demand for a very close mesh hog fencing made of wire sufficiently large to withstand hard usage.

RAZORBACK HOG AND CATTLE FENCE



Top and Bottom No. 10.



Style.	Height.	Price per rod with stays 12" apart.		Price per rod with stays 6" apart.	
		List.	Retail.	List.	Retail.
4812	48	\$.80	\$.32	\$1.05	\$.42
4211	42	.73	.30	.95	.38
3610	36	.66	.27	.86	.35

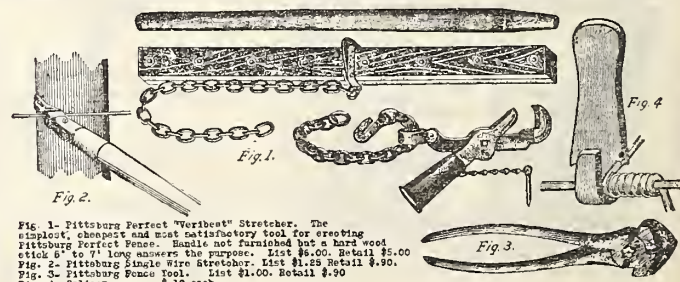
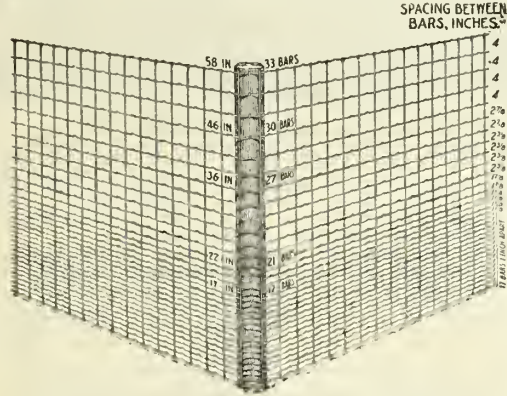


Fig. 1—Pittsburgh Perfect "Veribest" Stretcher. The simplest, cheapest and most satisfactory tool for creating Pittsburgh Perfect Fence. Handle not furnished but a hard wood stick 6" to 7" long answers the purpose. List \$6.00. Retail \$5.00.
Fig. 2—Pittsburgh Single Wire Stretcher. List \$1.25 Retail \$1.00.
Fig. 3—Pittsburgh Fence Tool. List \$1.00. Retail \$0.90.
Fig. 4—Splitter. \$0.10 each.

PITTSBURGH PERFECT CHICKEN AND RABBIT FENCE

A fence made with No. 13 top and bottom wires with all other wires No. 14. While made in five heights, namely, 58-in., 46-in., 36-in., 22-in. and 17-in., we carry only the three heights listed below in stock, but would be pleased to make special quotations on the other heights. The very close spacing of this



spacing between bars, inches, in a class to itself. It is the closest mesh fencing of its kind on the market. Spacing between the line wires from bottom to top are as follows: Stay wires are 6 ins. apart. Can be furnished with stay wires 4 ins. apart on special order.

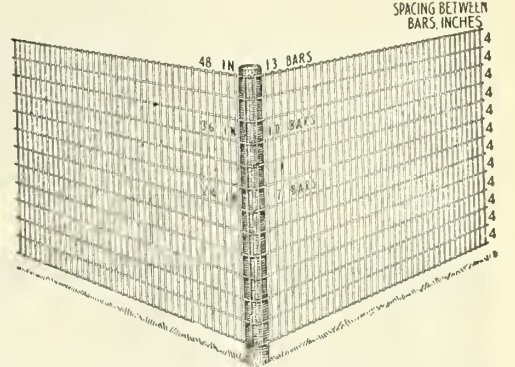
Price per roll 150 lineal feet.

Style No.	Height.	No. Strands.	List.	Retail.
5833	58 in.	33	\$14.25	\$5.70
4630	46 in.	30	12.75	5.10
3627	36 in.	27	11.25	4.50

"Pittsburgh Perfect" Lawn Fence

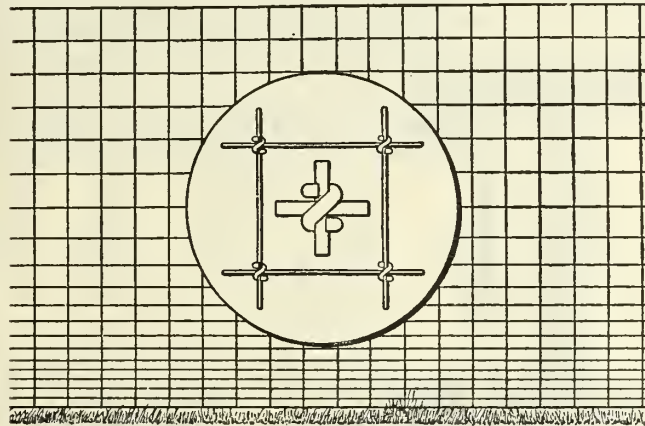
A neat and effective Lawn Fence; also used extensively for Tennis and Baseball Backstops, and for constructing Corn Cribs.

This fence has gained great popularity. It makes an especially neat and effective fence. The strand wires are spaced evenly four inches apart from top to bottom and there are 100 upright wires slightly less than two inches apart in every rod. This close spacing makes it a very effective fence against small animals and fowls, and the uprights are so very close together that it is practically a non-climbable fence, as the spaces are not large enough for a foothold. Open hearth galvanized wire electrically welded at the joints is used, and the material and style of construction insure a remarkably strong fence. It can be used also for corn cribs; it has been largely used for dog kennels and game enclosures.



No. 4813—48-in. high. List, per rod, \$3.00; retail, per rod, \$1.20
No. 3610—36-in. high. List, per rod, 2.30; retail, per rod, .92

Lawn Fence comes in 10-rod rolls. Less than a roll, 10 per cent. advance to cover cost of cutting.



STONEWALL POULTRY FENCE

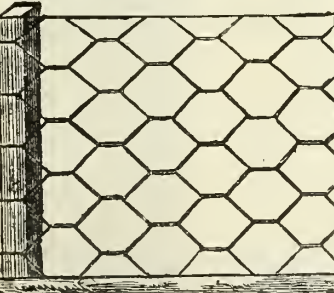
While the cost of Stonewall Poultry Fence may be approximately the same as a poultry netting of the same height, it has the advantage of being made of heavier wire throughout, and the strand wires being straight and horizontal enables the erector to stretch it up properly on one-half the number of posts as are required by a netting which will not stretch right, and the top rail and bottom board can be dispensed with. Beginning at the bottom the spacing between the strand wires in inches is as follows: 1 1/4, 1 1/2, 1 3/4, 1 1/2, 1 1/4, 1 3/4, 1 1/2, 1 3/4, 2 1/4, 2 3/4, 3 1/4, 3 3/4, 3 3/4, 3 3/4, 3 3/4, 3 3/4, 3 3/4. The upright wires or stays are four inches apart.

Stonewall Poultry Fence is made with No. 14 top and bottom wires, and all other wires are No. 17. It does not require as heavy posts nor as substantial anchorage to keep it in shape as the heavier fences.

No.	Height.	Strands.	Price per roll of ten rods.	
			List.	Retail.
1424	24 in.	14	\$6.50	\$2.93
1736	36 in.	17	8.00	3.60
2048	48 in.	20	9.60	4.32
2360	60 in.	23	11.30	5.09
2672	72 in.	26	12.90	5.81

DIAMOND MESH POULTRY NETTING

The wire we offer is all Nos. 19 and 20, double twist, 2-inch mesh, thoroughly galvanized after weaving. Sold in bales of 150 running feet.



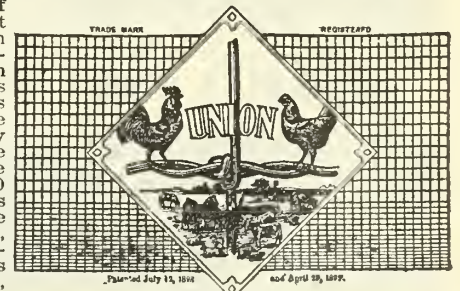
No.	In. Wide	Sq. Feet	List Price Per Bale	Retail Price Per Bale
19	12	150	\$3.75	\$.75
19	18	225	5.62	1.15
19	24	300	7.50	1.50
19	36	450	11.25	2.25
19	48	600	15.00	3.00
19	60	750	18.75	3.75
19	72	900	22.50	4.50
20	12	150	3.37	.70
20	18	225	5.07	1.05
20	24	300	6.75	1.35
20	36	450	10.12	2.05
20	48	600	13.50	2.70
20	60	750	16.87	3.40
20	72	900	20.25	4.05

Price 1c. per square foot in less than bale lots. Staples for fastening, 10c. per pound. We also carry in stock a few sizes of 1-inch mesh, as follows:

No.	In. Wide.	Sq. Feet.	List Price Per Bale.	Retail Price Per Bale.
20	24	300	\$16.50	\$3.50
20	36	450	24.75	5.00
20	48	600	33.00	6.75

UNION LOCK POULTRY FENCE

On account of its construction it stretches up in good shape without top and bottom rails, and requires about one-half as many posts as the ordinary poultry netting. The strands are made of two No. 20 wires and uprights of No. 19 single wire, 3 ins. apart, 7 meshes from bottom. The strands are 1 1/4 ins. apart, making it very close.

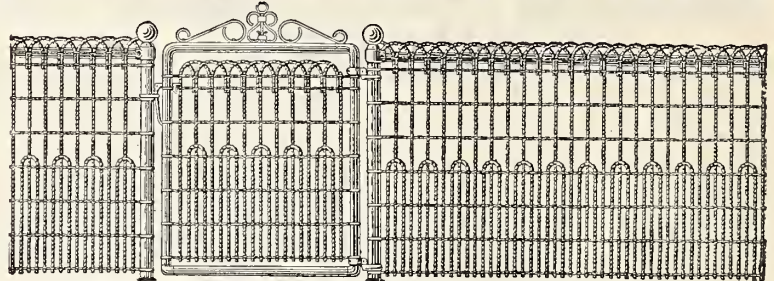


	List Per Roll	Retail Per Roll	Retail When Cut
10-rod rolls, 165 ft., 24 in. wide.	\$5.60	\$2.55	2 1/4 c. per run'g ft.
10-rod rolls, 165 ft., 36 in. wide.	6.90	3.15	2 3/4 c. per run'g ft.
10-rod rolls, 165 ft., 48 in. wide.	8.30	3.75	3 1/4 c. per run'g ft.
10-rod rolls, 165 ft., 60 in. wide.	9.60	4.35	4 c. per run'g ft.
10-rod rolls, 165 ft., 72 in. wide.	10.80	5.00	4 1/2 c. per run'g ft.
10-rod rolls, 165 ft., 84 in. wide.	12.30	5.60	5 1/4 c. per run'g ft.

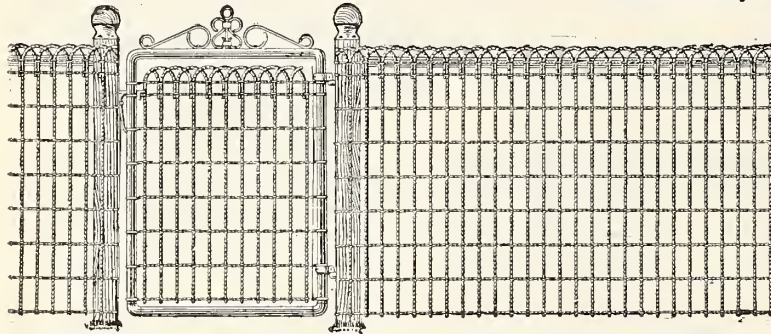
In comparing prices with ordinary poultry netting, remember these bales are 15 feet longer.

CLEVELAND CYCLONE ORNAMENTAL LAWN FENCE

We are offering this year the **CLEVELAND CYCLONE FENCE**, made of carefully selected galvanized wire of the right strength and temper to insure durability, and after being woven this galvanized fence is coated with a specially prepared grey enamel which is the result of about seven years' careful experimenting at the factory. The result is a remarkably beautiful lawn fence which is doubly protected against rust and without an equal. While we have every reason to believe that this improved fence will be universally popular, we are still prepared to furnish to those of our customers who prefer it the plain galvanized Cleveland Cyclone Fence without enamel. There is no difference in price between the plain galvanized and the enamel fence. We will be pleased to furnish on application special circular more fully describing the construction of this splendid lawn fence.



Cleveland Cyclone Complete Lawn Fence. Colonial A-1 Style.



Style L-X Cleveland Cyclone Fence, with Fickets 2 1/4 Inches Apart.

permits. Forty-two inches is the standard height of this fence, although it can be furnished in either heights, as listed below. This is a very neat fence. Prices given include fence fabric, posts and top rail. 36-in., A-1 Colonial Complete Fence. List, per ft., 72c. Our pr., 48c. 42-in., A-1 Colonial Complete Fence. List, per ft., 82c. Our pr., 55c.

Catalogue and Prices of Other Styles of Complete Lawn Fence on Application.

The illustrations show the two principal styles of Cleveland Cyclone Fence. The pickets of the Style L-X are uniformly spaced 2 1/4 inches apart from bottom to top, whereas the Style A-1 has the extra pickets woven into the bottom, making the spacing of the pickets at the bottom 1 3/4 inch, which makes a very close and effective fence.

Prices of Cleveland Cyclone Lawn Fence, Either Enameled, Galvanized or Regular Galvanized. (These prices do not include any posts or rails.)

35 in., Style L-X, List, per ft.,	18c.	Our pr., per ft.,	11c.
41 in. " " " " "	19c.	" " " "	12c.
47 in. " " " " "	22c.	" " " "	14c.
35 in. " A-1 " " "	20c.	" " " "	12c.
41 in. " " " " "	22c.	" " " "	14c.
47 in. " " " " "	25c.	" " " "	15c.

COLONIAL A-1 COMPLETE LAWN FENCE.

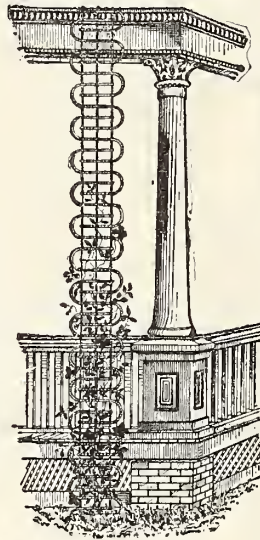
This fence is illustrated above. The posts are full weight steel pipe, 2 inches in diameter, spacing between posts as near 8 feet as length of fence can be furnished in either heights, as listed below.

36-in., A-1 Colonial Complete Fence. List, per ft., 76c.

CLEVELAND CYCLONE TRELLIS

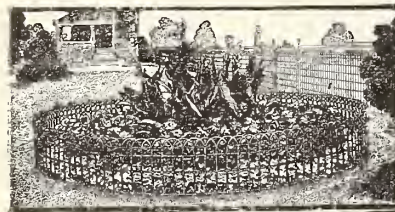
Train your flowers on this trellis, which is an attractive and practical trellis at a few cents per foot. Cleveland Cyclone Trellis is made of strong, durable galvanized wire, which will keep its shape and last almost indefinitely. Easily put up and cut to any length desired.

18 inch width. List price per foot, 3c. Our price, 6c.
24 inch width. List price per foot, 10c. Our price, 8c.



Cyclone Trellis.

PERFECTION FLOWER BED GUARD



This flower-bed guard is 18 inches high. Has four cables, which are made of two No. 12 1/2 wires. Has No. 9 crimped uprights. All heavy galvanized pickets project for insertion in ground. Requires no posts. Can be cut to length to any bed. It provides protection against dogs and chickens. List price, per foot, 11c. Our price, 8c.

Cleveland Cyclone Ornamental Lawn Gates

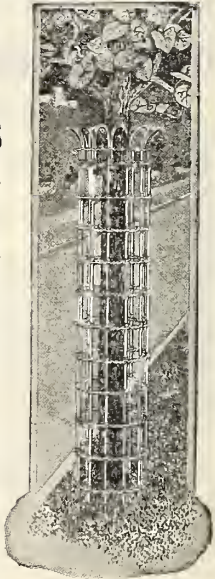
The styles of these gates are shown in the above illustrations. Can be furnished to match either Style L-X or Style A-1 fabric, up to and including 48 inches high. Higher gates quoted on application.

Opening	List Price	Our Price
For 3-ft. opening...	\$4.00	\$2.88
For 3 1/2-ft. opening...	5.20	3.12
For 4-ft. opening...	5.60	3.36
For 8-ft. opening...	10.00	6.00
For 10-ft. opening...	11.00	6.60
For 12-ft. opening...	12.00	7.20
Double Gate for 10-ft. opening...	13.00	7.80
Double Gate for 12-ft. opening...	15.00	9.00

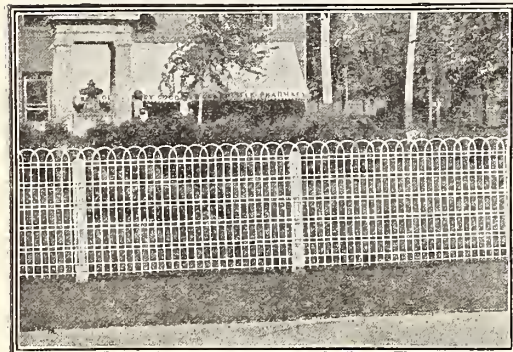
Gates are regularly furnished for wood posts. If wanted for any other kind of posts, state so in order.

Republic Tree Guards

Five-foot high; made of heavy galvanized wire, 9, 12 and 15 in. in diameter. Furnished with spiral springs to pass around the tree to prevent bruising or rubbing off the bark. Nine-inch. List price, \$1.50; Our price, \$1.25. Twelve-inch. List price, \$1.75; Our price, \$1.40. Fifteen-inch. List price, \$2.00; Our price, \$1.60.



ACME LAWN FENCE



A crimped picket lawn fence which is very popular with our trade. Made of No. 9 High Carbon Steel Wire throughout. The wire is galvanized, and the whole fence is covered with white enamel paint, giving double protection against rust. It is closely woven, the pickets being only 2 1/2 inches apart.

36 in. High—List price, per foot, 18c.; our special price, 12c.
42 in. High—List price, per foot, 20c.; our special price, 14c.

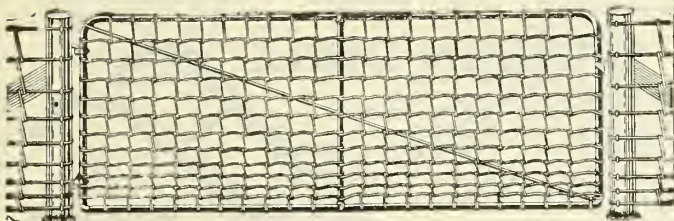
ACME LAWN GATES.

Width of Gate, including Hinges and Latch, being exact distance posts should be set apart.

	3 ft.	3 1/2 ft.	4 ft.
36 inches.....	\$3.00	\$3.25	\$3.50
42 inches.....	3.25	3.50	3.75

Prices of double gates same as that of two single gates.

ACME FARM GATE

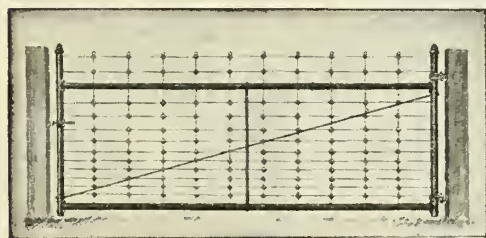


These gates are neatly designed, strong and durable, frames being of full weight steel pipe and latches and hinges malleable iron and forged steel. The filling is carefully selected galvanized wire, woven in to fit the frame. The construction of this gate makes it effective against both small and large stock.

Price List Acme Single Drive Gates.

Height.	Opening. Width of	List Price.	Our Special Price.
48 or 54 in.	8 feet	\$8.00	\$6.40
48 or 54 in.	10 feet	8.50	6.80
48 or 54 in.	12 feet	9.25	7.40
48 or 54 in.	14 feet	9.75	7.80

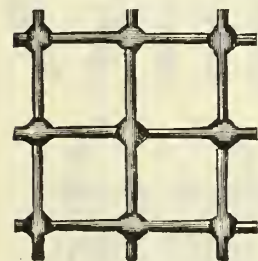
FARM AND RAILROAD GATE No. 23



Frame 1 1/2 inches diameter, a corner top, adjustable hinges, heavy screw hooks to hang on wooden posts, hook catch, steel diagonal brace rod support. All wire work passes through the frame both ways. This gate is extra strong.

4 1/2 x 12 feet.....	List, \$9.00; Retail, \$7.00
4 1/2 x 14 feet.....	List, 10.00; Retail, 8.00
5 x 12 feet.....	List, 10.00; Retail, 7.50
5 x 14 feet.....	List, 11.00; Retail, 8.50

Gate posts must be set four inches apart to allow for hinges and latch.



Galvanized Steel Wire Cloth

Used largely in corn-cribs to make them rat-proof; also for making sieves, grain fan screens, etc. Widths 24 to 48 inches.

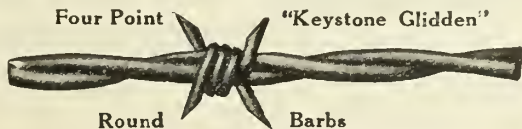
2x2—3x3 mesh, sq. ft., 4c.; full rolls, 3 1/2c. sq. ft.; 4x4 mesh, sq. ft., 4 1/2c.; full rolls, 4c. sq. ft.

The word mesh means number of meshes to the inch. (2x2 mesh, 2 to the inch; 4x4 mesh, 4 to the inch, etc.)

Special price in roll lots, 100 feet or more.

BARB WIRE

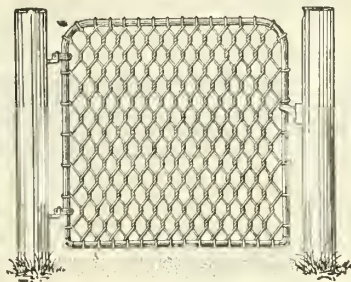
We have 2-point 5-inch Barb Wire and 4-point 4-inch Barb Wire. Prices on application.



Round Barbs

Ribbon Wire, Twisted Two-Strand Wire, Plain Galvanized and Annealed Wire, Panel Wire
PRICES ON APPLICATION

ECLIPSE GATES



THE ECLIPSE WALK GATES are built of high grade material in a substantial manner and are covered with a diamond mesh fabric, tightly woven of galvanized wire. The character of the fabric is such that each wire acts as a truss, thoroughly bracing the gate on all sides and making it sag-proof. The gates are furnished complete with hinges and catch, and these gates meet the demand for a thoroughly good gate at a low price.

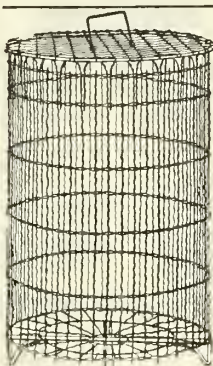
Price List of Eclipse Walk Gates.

Height.	Width of Opening.	List Price.	Our Price.
36, 42 or 48 inch.....	3 feet	\$3.40	\$2.40
54 or 58 inch.....	3 feet	3.80	2.70
36, 42 or 48 inch.....	3 1/2 feet	3.80	2.70
54 or 58 inch.....	3 1/2 feet	4.20	2.95
36, 42 or 48 inch.....	4 feet	4.00	2.80
54 or 58 inch.....	4 feet	4.40	2.50
36, 42 or 48 inch.....	8 feet	7.50	5.25
54 or 58 inch.....	8 feet	8.30	5.35
36, 42 or 48 inch.....	10 feet	8.50	5.95
54 or 58 inch.....	10 feet	9.30	6.55
36, 42 or 48 inch.....	12 feet	9.60	6.75
54 or 58 inch.....	12 feet	10.40	7.30

Price List of Eclipse Double Gates.

36, 42 or 48 inch.....	10 feet	\$11.20	\$7.85
54 or 58 inch.....	10 feet	12.70	8.90
36, 42 or 48 inch.....	12 feet	12.00	8.50
54 or 58 inch.....	12 feet	13.50	9.45

IF INTERESTED IN ANY KIND OF WIRE FENCE OR ANY KIND OF WIRE GOODS NOT SHOWN IN THIS CATALOGUE, WRITE US.



Cyclone Consumer

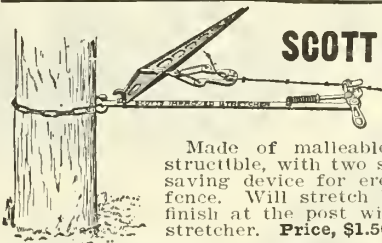
This consumer burns waste paper and all combustible material without scattering dirt or litter. A neat and artistic waste-paper basket.

	List.	Retail.
No. 1—20-inch diameter, 30-inch high.....	\$3.00	\$2.40
No. 2—17-inch diameter, 25-inch high.....	2.00	1.60
No. 3—14-inch diameter, 21-inch high.....	1.80	1.44
No. 4—12-inch diameter, 18-inch high.....	1.50	1.20



Truss and Cable Fence

Made of superior galvanized wire with no short, sharp twists. Attractive and economical; made of No. 13 and No. 14 wire, and weighs about two pounds to the rod. Price, 5 1/2c. per lb.



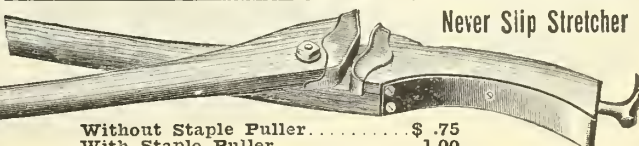
SCOTT IMPROVED WIRE STRETCHER

Made of malleable iron, practically indestructible, with two steel grips; a great labor-saving device for erecting single strand wire fence. Will stretch long strands of wire and finish at the post without the aid of another stretcher. Price, \$1.50.



Price, 75c.

WIRE STRETCHER No. 1.



Never Slip Stretcher

Without Staple Puller.....\$.75
With Staple Puller..... 1.00

NEW UNIVERSAL GARDEN TOOLS

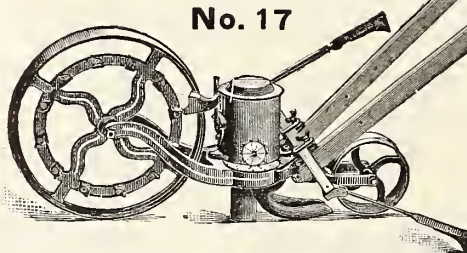
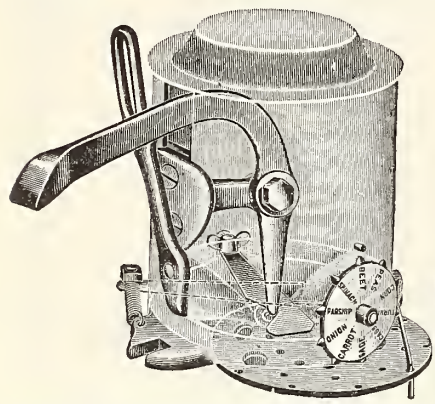
MATTHEWS' *New Universal* GARDEN DRILL

ONE OF THE STANDARD DRILLS OF AMERICA.
 Simple in Construction. Neat in Design. Efficient in Operation. None Better Can Be Procured.

The indicator has the names of the various seeds plainly marked upon it. The DIAL has a separate hole for each kind of seed, which registers in the CENTER of the hole in the bottom of seed-box. The hole in the dial may be gauged to a nicety by means of the REGULATOR, held by a thumb-screw. To lead the seed to the central opening there is provided a CORRUGATED and shouldered bottom, which admits of dropping any quantity of seed, even to a SINGLE PAPER.

Price, \$7.50. Packed weight, 55 lbs.

The Seeding Device



No. 17

Seeding can be regulated to exact quantity desired.



PATENT SEED INDICATOR USED ON ALL GENUINE DRILLS.

Matthews' *New Universal* Hill and Drill Seeder No. 16

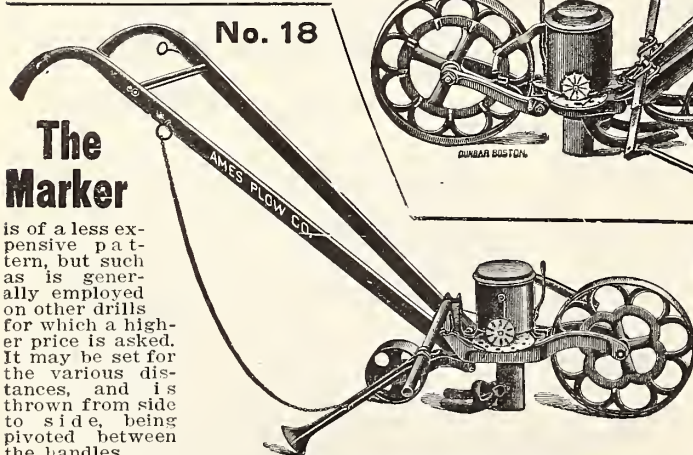
Is arranged so as to drop the seed continuously in drills or at a distance of 4, 8, 12, 16, 24 and 48 inches apart. The adjustment from drills to hills is made by one screw in attaching a brass cut-off to the agitator. The distance apart is regulated by the number of cogs on the driving wheel against which the agitator strikes. The seed cannot drop except when the hole in the bottom of seed-box is opened by the agitator striking a cog on the wheel, and it immediately closes again as the agitator drops. This saves seed, as no more need be dropped at a time than is desired, no matter what the distance may be. If this implement is wanted, be sure and order the "Hill and Drill Seeder," as the regular garden drill cannot be fitted with the attachments.

Price, \$8.25. Packed weight, 57 lbs.

Matthews' *New Universal* Constellation Seeder, Hoe, Cultivator, Plow, Rake and Marker No. 19

The two wheels are desirable when used as a cultivator or wheel hoe, as in this way the rows of young plants may be straddled and the cultivating done on both sides of the row at one passing. The special feature of this implement is that when used in straddle row cultivation there is no projection below the frame to interfere with plants. The attachments are—One (1) Pair Hoes, Five (5) Cultivator Teeth, One (1) Pair Rakes, One (1) Pair Plows.

Price, \$9.50



No. 18

The Marker

is of a less expensive pattern, but such as is generally employed on other drills for which a higher price is asked. It may be set for the various distances, and is thrown from side to side, being pivoted between the handles.

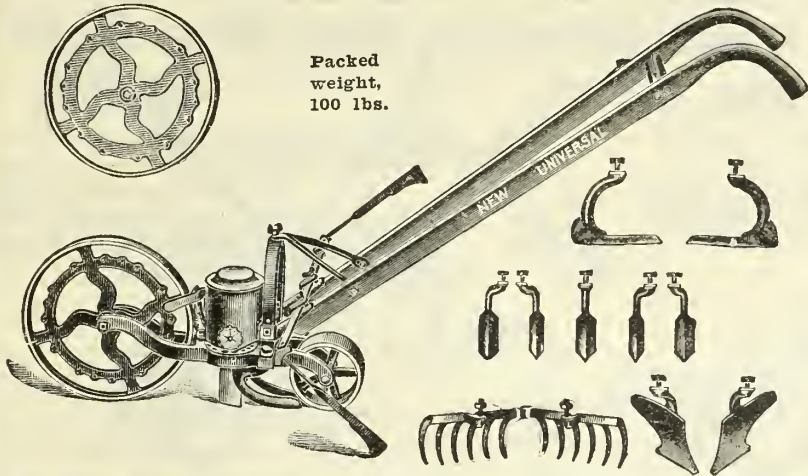
Packed weight, 40 lbs.

***New Universal* Gem Seed Drill**

It has a new seed regulator for gauging the exact flow of seed required; seed cut-off for stopping the flow while turning at the ends of rows, and marker adjuster for marking the rows at any desired distance apart. We do not recommend it for use instead of the larger drills, but we are sure that all in want of such a drill as we represent will find this to be a very valuable implement.

Price, \$5.75.

Send for Special Catalogue containing full description of all New Universal and Matthews' Tools.



Packed weight, 100 lbs.

New Universal

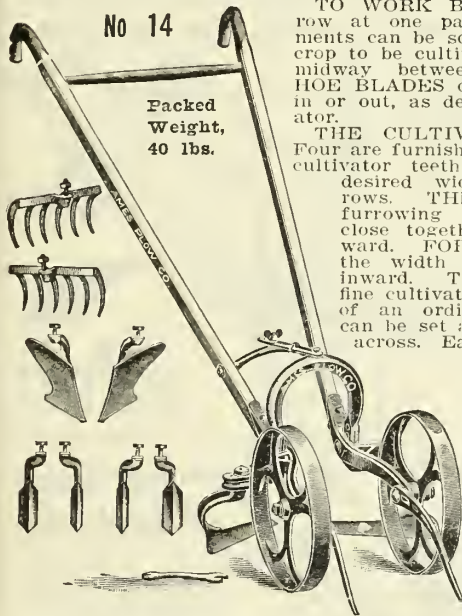
Combination Hill and Drill Seeder No. 22

Six Implements in One.

The Seeding Attachment will not only plant in drills, but will also plant in hills in distances varying from 4 to 48 inches. The Steel Arch is 20 inches in height; thus allows cultivation to that height when used in Straddle-Row Cultivation.

Complete with all attachments: Price, \$11.00.
No. 22 Seeder only: Price, \$8.75.

New Universal Hand Double Wheel Hoe, Cultivator, Plow and Rake



No 14

Packed Weight, 40 lbs.

TO WORK BOTH SIDES of a row at one passing, the attachments can be set to suit width of crop to be cultivated, keeping row midway between wheels. THE HOE BLADES can be set to turn in or out, as desired by the operator.

THE CULTIVATOR TEETH.—Four are furnished with each. Two cultivator teeth can be used at desired width to mark out rows. THE PLOWS.—For furrowing they can be set close together and turn outward. FOR COVERING, set the width desired, and turn inward. THE RAKES.—For fine cultivation and other uses of an ordinary rake. They can be set angling or straight across. Easily adjustable for width or depth.

THE LEAF GUARDS are to prevent wheels from injuring large spreading foliage.

One Pair Hoes, 1 Pair Plows, 1 Pair Rakes, 1 Pair Narrow Cultivators, 1 Pair wide Cultivators, 1 Pair Vine Guards.

Specially designed for working both sides of the row at one passing. Price, \$6.00.

New Universal DOUBLE WHEEL HOE WITH HOE BLADES ONLY. No. 15.

Price, \$4.00.

New Universal High Arch Expansion Wheel Hoe, Cultivator, Rake and Plow

No. 26.

This is a larger implement than the Double Wheel Hoe just described, and high enough to cultivate over 20-inch plants. Can be used as a One Wheel as well as a Two Wheel. Has 5 cultivator teeth instead of 4. Price, \$8.75.

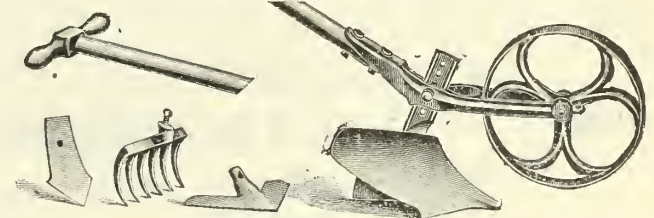
New Universal Hand Single Wheel Ho, Cultivator, Plow and Rake

No. 11.

As with the Double Wheel Hoe described, this can be used either between or astride the rows, although it is really intended for between-row cultivation. For straddle cultivation the wheel can be set to one side, so as to bring the row of young plants under center of frame. Later cultivation must be done between rows. The attachments are: 1 Pair Hoes, 1 Pair Rakes, 5 Cultivator Teeth, 1 Vine or Leaf Guard, 1 Pair Plows. Price, \$5.25.

New Universal Wheel Plow

Packed weight, 19 lbs.



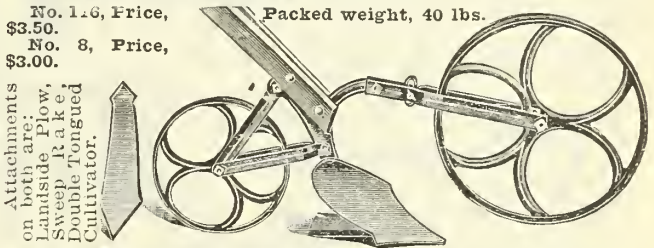
No. 10—Wheel Plow only..... \$2.10
No. 112—Same with all attachments shown..... 2.50

New Universal GARDEN PLOW AND ATTACHMENTS.

No. 116—With wheel front and rear gives perfect steadiness and regulates exact depth.

No. 8—Same as No. 116, but without rear wheel.

Packed weight, 40 lbs.



No. 116, Price, \$3.50.
No. 8, Price, \$3.00.

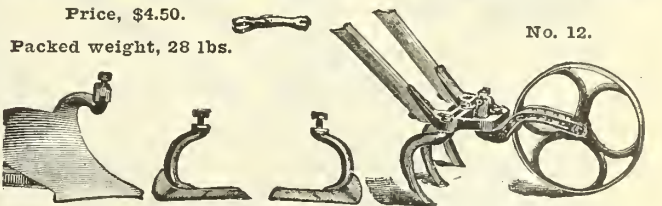
Attachments on both ends: Landside Plow, Sweep Rake, Double Tongued Cultivator.

New Universal "FLIER" Hand Single Wheel Hoe and Plow

Price, \$4.50.

Packed weight, 28 lbs.

No. 12.



This implement is same as our regular Single Wheel Hoe, but at this price fewer attachments are furnished. They are: 1 Pair Hoes, 3 Cultivator Teeth, 1 Large Plow.

New Universal HAND SINGLE WHEEL HOE

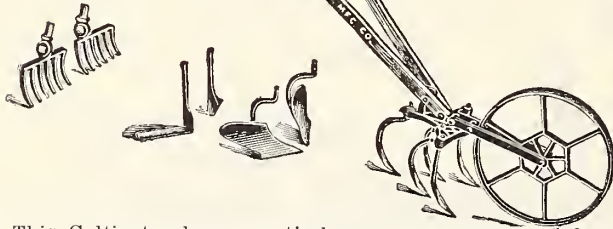
No. 13.

With Hoe Blades Only: Price, \$3.00.

The Baltimore Single Wheel Garden Cultivator

The Baltimore Single-wheel Garden Cultivator is very strong, neat and compact.

Packed weight, 31 lbs.



This Cultivator has an entirely new arrangement of frame which is strong, neat and compact, and with the aid of the different attachments can be used for hilling, furrowing or covering. The hilling attachments or weed cutters can be arranged to hoe in or out and to or from the plants, and can be set at any angle desired. Wheel and handles are both adjustable. Price, without rakes, \$4.25. With rakes, \$4.75.

No. 1 Gritco Garden Plow

Packed weight, 28 lbs.

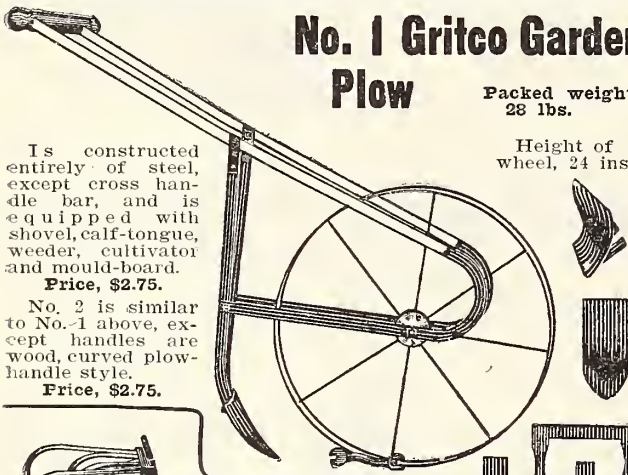
Height of wheel, 24 ins.

Is constructed entirely of steel, except cross handle bar, and is equipped with shovel, calf-tongue, weeder, cultivator and mould-board.

Price, \$2.75.

No. 2 is similar to No. 1 above, except handles are wood, curved plow-handle style.

Price, \$2.75.



FIVE-TOOTH WEEDER ATTACHMENT.

Can be attached to any of the Garden Plows. Price, 75c. each.

IRON AGE Double Wheel Hoe

No. 1. As shown in cut.

Price, \$7.00.

No. 3 Iron Age Double Wheel Hoe Same tool as shown in cut, but with hoes only. \$4.25.



IRON AGE Single Wheel Hoe

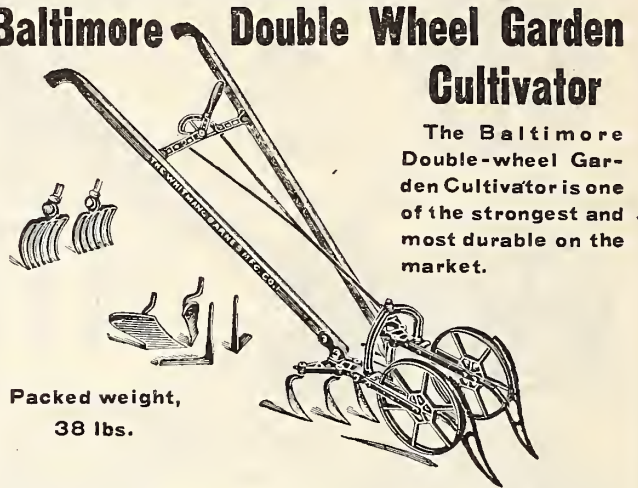
Is a steady, strong, light and easy-running tool, with attachments. No. 20. Price, \$6.00.

Baltimore Double Wheel Garden Cultivator

The Baltimore Double-wheel Garden Cultivator is one of the strongest and most durable on the market.



Packed weight, 38 lbs.



This Cultivator has a new device for expanding and contracting, which permits the operator to set the machine instantly to any desired width. It is furnished with various attachments used for harrowing, furrowing and covering. Price, without rakes, \$5.50. Price, with rakes, \$6.00.

Baltimore "RIVAL" Garden Plow Complete

Handles can be raised or lowered. Price, \$3.00.

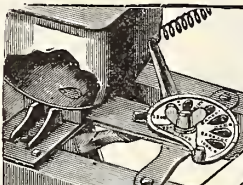
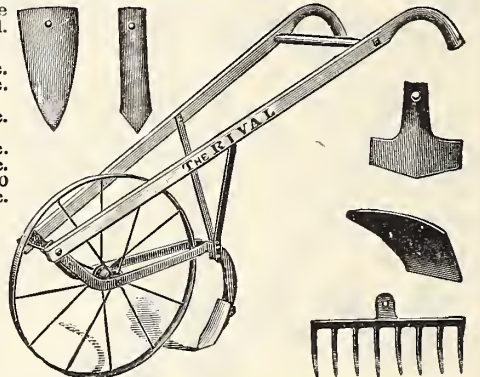
- Extra Mould, 30c.
- " Sweep, 30c.
- " Large Blade, 25c.
- " Bull Tongue, 20c.
- " Rake, 25c.
- " Wheel, \$1.00
- " Weeder, 30c.

Handles, per pair... 80c.

Handle Braces, per pair... 30c.

Main Frame, each... \$1.30

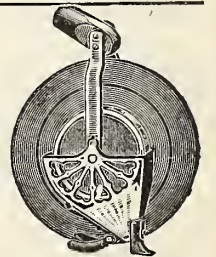
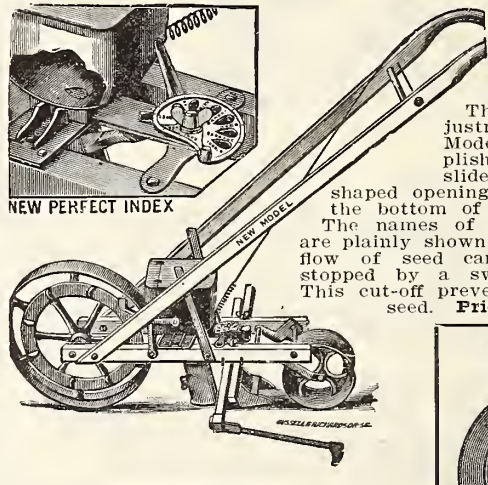
Packed weight, 23 lbs.



NEW PERFECT INDEX

New Model Seed Drill

The Seeder Adjustment in the New Model is accomplished by use of a slide with a pear-shaped opening passing under the bottom of seed reservoir. The names of principal seeds are plainly shown on index. The flow of seed can be instantly stopped by a swinging cut-off. This cut-off prevents all loss of seed. Price, \$8.00.



Eureka Seeder

Have You a Hot-Bed?

It is the only machine suited to sow in a hot-bed. Sows up close to the sides in very straight rows. Sows the smallest packet of seeds as well as a large bulk. Price, \$1.00.

GENUINE FARMERS' FRIEND PLOW

**PRICES
GENUINE
FARMERS'
FRIEND
PLOW.**

No. 1/2.....	\$2.80	No. 8 R. and L., with rod.....	\$6.25
No. 5.....	2.80	No. 9 R. and L., with clevis.....	5.95
No. 7 R.....	4.40	No. 1 Hillside.....	4.20
No. 7 L.....	4.70	No. 2 Hillside.....	5.45
No. 7 1/2 R.....	4.70	No. 3 Hillside.....	5.85
No. 8 R. and L., with clevis.....	5.65	Polished Castings, lb., 6c.	
Plain Castings, per lb., 5c.			

"BOY" DIXIE PLOW		GIRL CHAMPION PLOW	
"Boy" Dixie.....	\$2.20	No. "Girl".....	\$3.35
No. X.....	2.65	No. A.....	3.65
No. I.....	2.85	Nos. AA and 2.....	3.75
No. II.....	4.50	Castings, per lb., for "Boy," Dixie and "Girl" Champion, Plain, 5c.; Polished, 6c.	
No. 2.....	5.85		
Plain Castings, per lb., 5c.			

M. NOR & HORTON HIGH STANDARD PLOWS			
No. 18.. \$3.00	No. 18 1/2.. \$3.25	Plain Castings, lb., 5c.	
No. 19.. 3.50	No. 19 1/2.. 4.75	Pol'hd Cast'gs, lb., 6c.	

WHITE'S CLIPPER PLOW

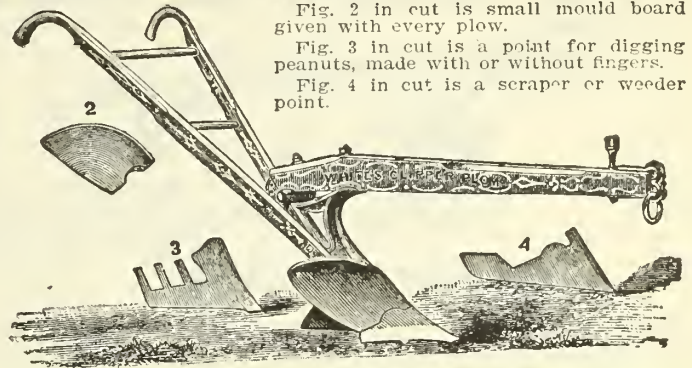


Fig. 2 in cut is small mould board given with every plow.
Fig. 3 in cut is a point for digging peanuts, made with or without fingers.
Fig. 4 in cut is a scraper or weeder point.

Prices Clipper Plow and Extras, Polished and Blued

No. Boy Junior, Cast, One-Horse.....	\$3.00
No. Boy, Cast, One-Horse.....	3.00
No. 1 and 2, Cast, One-Horse.....	3.25
No. 2 1/4 and 3, Cast, One-Horse.....	3.50
No. 7, 8 and 11, Two-horse.....	5.25
No. 12, Cast, Two-Horse.....	5.50
Clipper Cast Point for No. 12 Steel Mouldboard.....	.25
Clipper Steel Point, No. 12.....	.60
Clipper Steel Mouldboard, No. 12.....	2.00
Cast Point for No. 2 Clipper Steel and Chilled Plow.....	.15

BRINLY SUBSOIL STEEL PLOW

Prices:

No. 0.....	\$5.00
No. 3.....	7.50

Extras for above:
Gauge Shoe...\$1.50
Steel Points, No. 0, 60c.
No. 3.....\$1.00

Weight, No. 0, 36 lbs.; No. 3, 52 lbs.

These Plows are made of best material throughout. The malleable iron uprights are unbreakable. The Mole-shaped Duck-Bill Steel Points make the Plows very light draft. No. 0 is a One-Horse Plow, and the No. 3 is a Two-Horse Plow.

OLD DOMINION GRUB PLOW

TWO-HORSE...	\$6.50
THREE-HORSE...	7.00
COULTERS.....	2.25
BOTTOMS.....	4.10

It is peculiarly adapted to newly cleared ground that is encumbered with growth of hazel or other bushes. All wearing parts are of best steel, and it is so strongly built that it will withstand the hardest usage. It is the favorite plow of its class. It is built in right hand only, and cuts about 7 inches.

GOLD MEDAL SUBSOIL PLOW

One-horse, with cast point, plain, \$5.00. One-horse, with cast point, with wheel, \$6.00. One-horse, cast point, 50c. Two-horse, with cast point, plain, \$7.50. Two-horse, with cast point, with wheel, \$8.50. Two-horse, cast point, 90c.

THIS PLOW WILL REACH A DEPTH OF 20 INCHES.

HAMPTON CAST PLOW

EXTRAS.

Fig. 7—Cutter or sod plant point.....	60c.
Fig. 8—Potato-digging attachment.....	90c.
Fig. 6—Double mould.....	\$2.50

Castings on all Hampton Plows 5c. lb.

HAMPTON No. 1 C PLOW.
With every Hampton No. 1 C Plow is sent three extra moulds and one extra share and wrench. **Price, \$4.50.**

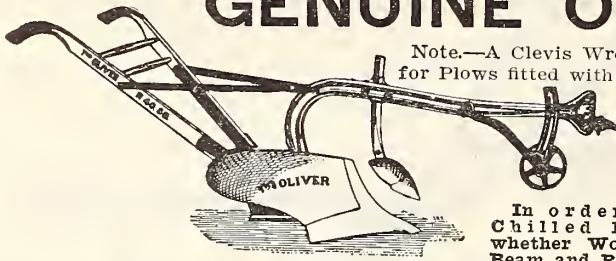
HAMPTON BOY PLOW.
Price with truck and mouldboard, wrench and point, \$3.00.

HAMPTON PLOW, No. 1 REGULAR.
This style is similar to the Boy, but larger. Attachments are: Truck mouldboard, point and wrench. **Price, \$3.50.**

HAMPTON PLOW, No. 5.
This is a medium two-horse plow, very light draft, and scours thoroughly. Front wheel and jointers furnished when desired extra. **Price, plain plow, \$6.00.**

GENUINE OLIVER PLOWS

Note.—A Clevis Wrench and an extra Share are included in prices for Plows fitted with Cast Shares, but Wheels and Jointers are not.



In ordering Oliver Chilled Plows, state whether Wood or Steel Beam and Right or Left Hand.

STEEL BEAM

Prices.

Nos. A-1 and A-2, right hand.....	\$6.00
No. B-N, right hand.....	8.00
No. 10-N, right and left hand.....	9.00
No. 13-N, right and left hand.....	10.25
No. 19-N, right and left hand.....	11.00
No. 20-N, right and left hand.....	11.50
Nos. 40-N and 40-X-N, right and left hand.....	12.00
No. 88, right and left hand.....	12.50
No. 22, Chilled, Iron Beam, right and left hand.....	12.00
No. 3-X, Chilled, Iron Beam, right and left hand.....	10.00
No. 1, Road and Grading Plow, all steel, with Standing Coulter and Gauge Iron or Wheel, right hand only.....	35.00
The Oliver Subsoiler, best of its kind, with Wheel.....	14.50

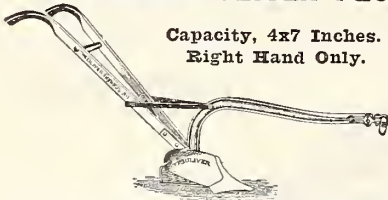
WOOD BEAM

Prices.

Nos. A-1 and A-2, right hand.....	\$5.00
No. B-N, right hand.....	7.25
No. 10-N, right and left hand.....	8.00
No. B-Vineyard, right hand.....	9.00
No. 13-N, right hand.....	9.50
No. 19-N, right and left hand.....	10.00
No. 20-N, right and left hand.....	10.50
No. E-1-N, right and left hand.....	11.00
Nos. 40-N and 40-X-N, right and left hand.....	11.00
No. 40-XX, left hand.....	12.50

THE GOOBER OLIVER PLOW

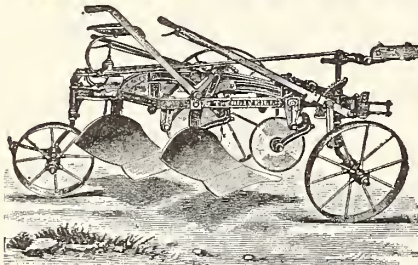
Capacity, 4x7 Inches.
Right Hand Only.



This plow is especially designed for Truck Farming, and completely satisfies the farmer who is looking for a perfect one-horse plow that is light in weight and draft and thoroughly adjustable.

The share is cutter style, extending to top of mouldboard, cutting instead of breaking soil. Price, \$5.50.

OLIVER No. 1 GANG PLOW



Plows a uniform depth in uneven ground.

Is raised or lowered with little or no exertion. Is adapted to any soil and every condition of plowing.

Turns to right or left while plow bottoms are in ground.

Can be handled as easily as a wagon. Is light in draft and perfect in work.

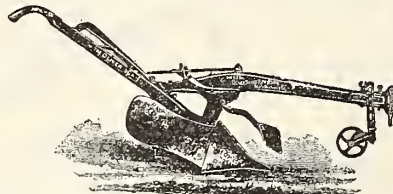
In opening land a square and level furrow is turned. Wheels are large and the plow runs steadier in consequence.

Is fitted with dust and sand-proof boxes and caps. Plows two to ten inches in depth, as desired, at will of operator.

No. 1—Gang Plow, Steel or Chilled Mouldboard, Chilled Shares, Rolling Coulter, Weed Hooks, Four-Horse Evener and Tongue. List Price, \$86.00; Our Special Price, \$64.50.

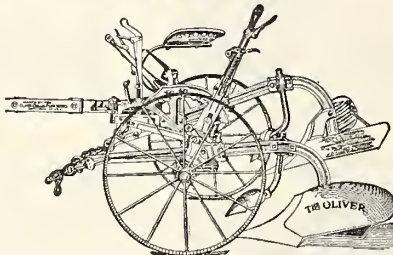
No. 1—Gang Plow, same as above, but with Jointers instead of Rolling Coulter. List Price, \$84.00; Our Special Price, \$63.00.

OLIVER HILLSIDE PLOWS



No. 52, Steel Mouldboard, Chilled Share, Wood Beam, One Horse..	\$11.00
No. 53½, Chilled Mouldboard, Chilled Share, Two-Horse.....	10.00
No. 57, Steel Mouldboard, Chilled Share, Wood Beam, Two-Horse..	13.50
No. 524, Iron Beam, Chilled Mouldboard, Chilled Share, Shifting Clevis, Two-Horse.....	11.50

OLIVER REVERSIBLE SULKY PLOW No. 23



This reversible sulky plow is more easy to manipulate than any other on the market and more convenient and safe for the operator in hillside work. By means of the power lift, operated by a foot trip when riding, or a hand latch when walking, this "horse lift," which is brought into play by simply pressing forward slightly on the foot trip, the operator's work is diminished by fully one-half.

12-in. Sulky with Chilled Shares, Jointers and 2 or 3-Horse Hitch. List Price, \$70.00; Our Special Price, \$52.50.

14-in. Sulky with Chilled Shares, Jointers and 2 or 3-Horse Hitch. List Price, \$71.00; Our Special Price, \$53.25.

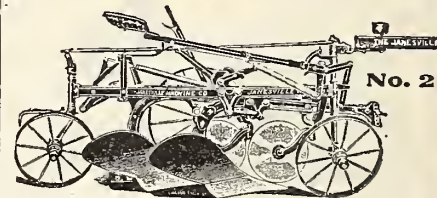
OLIVER SULKY PLOW No. 11

Light, durable and effective. Simple and novel device for turning. Plows the most difficult soils and does it well. Can be used with or without tongues. Depth easily regulated. Turns square corners without lifting out of the ground. Made in both right and left hand.

No. 11—Sulky Plow, Steel or Chilled Mouldboard, Chilled Share, Rolling Coulter, Weed Hook, Three-Horse Evener and Tongue. List Price, \$48.00; Our Special Price, \$36.00.

No. 11—Sulky Plow, same as above, but with Jointer instead of Rolling Coulter. List Price, \$47.00; Our Special Price, \$35.25.

JANESVILLE GANG PLOW No. 2



With Two 12-Inch Bottoms.

Has all points of latest, up to date Gang Plow — spring balance features, ease of handling, foot-lever horse lift, extreme flexibility, self-leveling device, furrow wheel connection, light draft. Beams adjustable to turn 12, 13 or 14-inch furrows. Janesville bottoms dip point first into the ground, and on reaching depth wanted automatically level themselves. Without this self-leveling device it is impossible to get these perfect walking plow principles.

There are a number of other excellent devices on this plow, which altogether go to make it one of the most up to date implements in use. List Price, \$85.00; Our Special Price, \$63.75.

JANE VILLE SULKY PLOW No. 2, One 12-inch Bottom.—Similar to above Janesville Gang Plow, but has only one bottom. One of the most up to date plows of the kind on the market. List Price, \$59.00; Our Special Price, \$44.25.

JANESVILLE JUNIOR SULKY PLOW No. 8.—List Price, \$49.00; Our Special Price, \$36.75. Send for Catalogue.

OLIVER PLOW REPAIRS

MOULDBOARDS.

No. A-1 & A-2	\$1.35	No. 40 XX	\$3.50
B. & B. Vin.	1.85	E-0, E-1	3.25
10-0	2.25	3 X	3.25
13 & 13 Vin.	2.50	98	3.00
19	2.75	99	3.25
20	3.00	119	2.75
22	3.25	120	3.00
40	3.25	140	3.25

LANDSIDES.

No. A	\$.45	No. 40 & 40 XX	\$.85
B. & B. Vin.	.60	13	.85
10	.70	98	.85
13 & 13 Vin.	.75	99	.85
19	.85	119	.85
20	.85	120	.85
22	.85	140	.85
3 X	.85		

HANDLE BRACES.

No. A	\$.30
No. B-10-13-13 Vineyard, B. Vin.	.35
All other Handle Braces	.60

WOOD BEAMS.

No. A-B-B Vineyard and 10	\$1.50
No. 40 XX	2.25
All other numbers, Wood	1.75
No. 22, Iron	4.25

STEEL BEAMS.

No. Vineyard	\$3.00
Nos. A, B, 10, 13 and Goober	3.50
Nos. 19 and 20	4.00
No. 40	4.50

WOOD BEAM CLEAVES.

Marked "A" for One-Horse Plows, Wood Beam	\$.20
Marked "B" for Two-Horse Plows, Wood Beam	.30
Marked "D" for Three-Horse Plows	.50
Shackles, Twisted	.10
Wrenches	10c., 15c. and Guide Pins
Shackle Pins	.05
Links, Two-Horse	.05
Rings, One-Horse	.05

IRON AND STEEL BEAM CLEAVES.

Marked "2," for B, 10 and 13 Plows	\$.60
Marked "3," for 19 and 20 Plows	.60
Marked "4," for 40 Plows	.75

HANGING COULTERS.

All Numbers, complete two-horse, except 7-L and 3-X	\$2.00
Holder, same as for jointers	1.00

STANDARDS.

No. A	\$1.35	No. 40	\$2.75
B	1.65	40 XX	3.25
B. Vin.	2.25	E	2.75
10	2.25	119	2.75
13	2.50	120	2.75
19	2.50	140	3.00
20	2.50		

HANDLES.

Per Pair and Single.

All numbers, per pair, loose \$1.10

All numbers, single, each .55

Rounds, per pair .10

L. S. Handle Plates .10

In ordering handles, state whether for wood or steel beam plows.

Complete—Per Set.

No. A-B-10-0	\$1.35
No. 22, complete	1.75
No. 13, complete	1.50
No. B Vineyard	2.00
No. 98-99-119-120 and 140	1.15
No. 113	1.60
No. 19-20-E, 40 and 40 XX	1.75

SHARES.

Numbers.	Solid Cutter Shares.	Solid Plain Shares.	Cutter Oliver Slip Nose Shares.	Plain Oliver Slip Nose Shares.	Chilled Reversible Wings.	Chilled Reversible Slips.
A	22c.	20c.	25c.	25c.	8c.	
B	25c.	22c.	28c.	28c.	10c.	
B Vin.	22c.	22c.	28c.	28c.	10c.	
10-0	25c.	35c.	35c.	35c.	10c.	
13	30c.	40c.	40c.	40c.	10c.	
19	30c.	40c.	40c.	40c.	10c.	
20	35c.	45c.	45c.	45c.	10c.	
22	55c.	50c.	55c.	55c.	10c.	
3-X	40c.				10c.	
40	40c.				10c.	
40-XX	50c.				10c.	
E	40c.				10c.	
98	55c.	40c.			18c.	
99	55c.	40c.			18c.	
119		45c.			22c.	
120		45c.			22c.	
140		45c.			22c.	

ROLLING COULTERS.

11-in., for one-horse plows, complete	\$2.75
13-in., for two or three-horse plows, complete	3.00

JOINTERS.

Decidedly the most important of all plow attachments, and can be used on most of our plows. The plowman who once uses a jointer will never want to do without it.

No. D—Chilled, for one-horse plows \$1.50

No. 2—For two and three-horse plows 2.00

Jointer Points, chilled, all numbers .15

Jointer Mouldboards .35

One-horse Jointer Holders .75

Two-horse Jointer Holders 1.00

One-horse Jointer Standards .50

Two-horse Jointer Standards .75

Note.—In ordering, say whether for wood or steel beam, right or left hand plows.

COMBINATION PLOW REPAIRS.

Numbers.	Mould-board Lugs.	Handle Lugs.	Mould-board and Landside Braces.	Shins.	Lever.	Springs.	Landside Plates.
98	20c.	20c.	50c.		25c.	5c.	5c.
99	20c.	20c.	50c.		25c.	5c.	5c.
119	20c.	20c.	40c.	20c.	25c.	5c.	
120	20c.	20c.	40c.	20c.	25c.	5c.	
140	20c.	20c.	40c.	20c.	25c.	5c.	
3X	20c.	20c.					

HILLSIDE PLOW REPAIRS.

PLOW Nos.	Chilled Mould-board.	Steel Mould-board.	Standards.	Landsides.	Chilled Shares.	Set Handles.	Wood Beams.	Wood Beam Clevises.	Wrenches.	Wheels.	Jointers.
52	\$2.75	\$3.00	\$6.55	\$5.50	\$1.75	\$1.50	\$2.00	\$1.15	\$1.75		
52 1/2	3.25	4.00	7.75	7.40	1.75	1.50	.75	.20	1.00		
57	3.25	4.00	3.25	7.55	2.00	1.50	.35	.20	1.00	\$2.00	
58	2.50			.60	.60				.20	1.00	
524	3.00	5.00		.75	.55	1.75			.20	1.00	

BOLTS.

For shares, mouldboards and landsides, jointer and coulters standard No. 5, end of handle brace, each \$.03

For jointer and coulters holder, No. 6, wheel standards, straight, end of beam, wheel hub, No. 14-A clevis bolts, Nos. 20 and 40 steel beam and landside bolts, No. 99 S. B. jointer holder bolts, each .05

For all standards and beams, spreading bottom of handles, Nos. 140 and 125 shin bolts, No. 40 S. B. jointer holder to block bolt, steel set-screws, all sizes, No. 99 S. B. standard bolts, 9-16x2 3/4, each .07

Wheel hook bolts .10

Cast Washers Are Not Included in Prices for Bolts.

WHEELS.

Straight standard, one-horse, complete	\$.75	Standards, two-horse, all kinds	\$.50
Brace, standard, two-horse, complete	1.00	Wheels only, one-horse	.40
Standards, one-horse, straight	.40	Wheels only, two-horse	.50
Note.—In ordering wheels, say if for right or left hand wood or steel beam plows.		Hubs	.10
		Center pins or hub bolts	.03

Prices of Repairs for Roland Chilled Plows

Numbers.	No. of Slip Nose.	Mould-boards.	Landsides.	Standard.	Solid share.	Slip shares.	Slip nose.	Cutter.
E4 and D3	43	\$3.25	\$.85	\$2.75	\$.40	\$.50	\$.10	\$.15
D3 and D4	33	3.25	.85	2.75	.40	.50	.10	.15
D4	33	3.00	.85	2.50	.35	.45	.10	.15
B3 X	13	3.75	.85	3.50	.30	.40	.10	.15
A3 X	13	3.25	.75	3.50	.30	.40	.10	.15
	B3 X	1.85	.60	1.65	.35	.30	.10	.10
	A3 X	1.35	.45	1.35	.20	.30	.10	.10

CLEAVES.

Nos. A3, B3 and 13	\$.29
All other numbers, 2-horse	.30
Three-horse	.50
Shackles	.10

HANDLES.

Nos. A3, B3 and 13, complete, per set	1.35
All other numbers, complete, per set	1.75
Single Handles, each, all numbers	.55
Rounds, per pair	.10

HANDLE BRACES.

No. A3	\$.25
Nos. B3 and 13	.30
All other numbers	.50

WRENCHES.

Wrenches \$.15

JOINTERS.

Two and three horse 2.00

Holders 1.00

Standards .75

Mouldboards .40

Points .15

WHEELS.

Complete 1.00

Standards .50

Wheel, only .50

Wheel, axle .25

BOLTS.

For Mouldboards, Landsides, Jointer, Coulters Standards, End of Handle Brace For Wheel Arm (hook), Wheel through Beam Side, Rolling Coulters Axle, Back End of Beam, Jointer, and Coulters Holder (fronts), and Wheel Hubs .07

For spreading bottoms of Handles .10

For Standard through Beam .10

PLOW BOLTS

Length.	Retail.		Retail.	
	List.	Each.	List.	Each.
1 1/4	\$2.00	3c.	\$3.50	3c.
1 1/2	2.10	3c.	3.70	3c.
1 3/4	2.20	3c.	3.90	3c.
2	2.30	3c.	4.10	3c.
2 1/4	2.40	3c.	4.30	3c.
2 1/2	2.50	3c.	4.50	3c.
2 3/4	2.60	4c.	4.70	4c.
3	2.70	4c.	4.90	4c.
3 1/4	2.80	4c.	5.10	4c.
3 1/2	2.90	4c.	5.30	4c.
3 3/4	3.00	4c.	5.50	4c.
4	3.10	4c.	5.70	4c.

For Bolts Longer Than Listed, Write for Prices

For Carriage and Machine Bolts

See Page 151

CHATTANOOGA CHILLED PLOWS

Points of Merit: 1st. Low front, similar to Steel Pattern Plows; will not collect trash.
 2d. Handle not bolted to mould, but to standard and brace that is attached to beam, thus preventing breakage of many moulds.
 3d. Brace or rod between landside and mould, giving additional strength where it is most needed, making plow absolutely rigid.
 4th. Special bolts which will not turn and can be readily taken out. All the base bolts are alike and interchangeable; only one kind necessary to keep on hand.
 5th. Points are fastened on with two bolts; never fails; gives satisfaction.

STEEL BEAM LOW FRONT

Cut represents two and three-horse plow.

Prices

Chattanooga Plows and Extras

Nos.	Capacity.	Wt., lbs.	Price.	Plain Shares.	Sod Cutter Shares.	Cutter Shares.	Slip Nose Shares.	Slips.	Landsides.	Mouldboards.	Steel Beams.	Wood Beams.	Handles with Braces, Set.	Standards.
45—2-Horse Wood Beam.....	10x12	124	\$10.00	..	..	..	..	..	..	..	..	..	..	..
45—2-Horse Steel Beam.....	10x12	131	11.00	..	..	..	..	..	..	..	..	..	..	..
46—3-Horse Wood Beam.....	12x14	144	11.00	..	..	..	..	..	..	..	..	..	..	..
46—3-Horse Steel Beam.....	12x14	165	12.00	..	..	..	..	..	..	..	..	..	..	..
62—1-Horse, Wood Beam.....	5x9	60	4.25	..	..	..	30	..	..	..	..	1.25	..	..
62—1-Horse, Steel Beam.....	5x9	70	5.25	20	..	..	30	08	45	1.50	3.00	..	2.00	1.35
72—1-Horse, Steel Beam.....	5x8	75	5.75	..	..	..	30	08	45	1.50	3.00	..	2.00	1.35
63—Very Light 2-Horse, Steel Beam.....	8x10	105	8.50	..	25	25	35	10	70	2.25	3.50	..	2.40	2.25
64—Light, 2-Horse, Steel Beam.....	9x11	123	10.00	..	30	30	40	10	85	2.75	4.00	..	2.40	2.50
65—Medium, 2-Horse, Steel Beam.....	10x12	134	11.00	..	35	35	45	10	85	3.00	4.00	..	2.40	2.50
66—Heavy, 2-Horse, Steel Beam.....	12x14	165	12.00	..	40	40	50	10	85	3.25	4.50	..	2.40	2.75

Rolling Coulters, complete, \$3.00; Wheels, complete, \$1.00; Jointers, complete, \$2.00; Bolts for Shares, Landsides, Moulds, 3c.; Rear Beam Bolts on 1-Horse Plows, 5c. All other Beam Bolts, 10c.

Chattanooga One-Horse Plow

The one-horse plows as priced below are a little different from design shown in cut. The No. 72 is the factory's latest pattern.

PRICES:

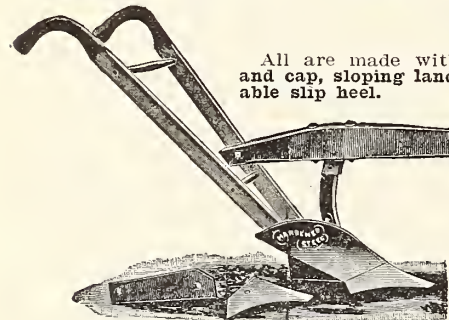
- No. 62—Wood Beam.....\$4.25
- No. 62—Steel Beam..... 5.25
- No. 72—Steel Beam..... 5.75

Chattanooga Reversible Hillside Plows

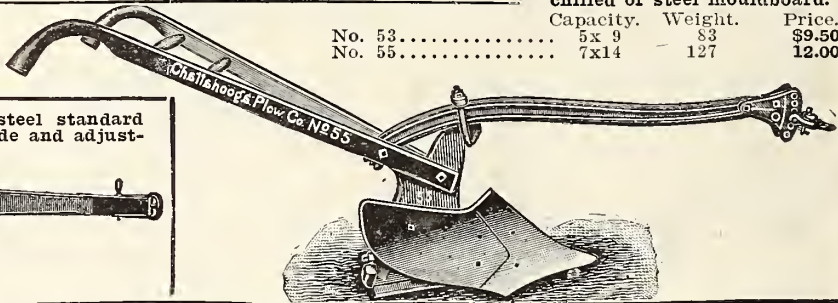
Steel beam only, 2-horse, with chilled or steel mouldboard.

Capacity.	Weight.	Price.
5x9	83	\$9.50
7x14	127	12.00

CLIMAX STEEL PLOWS



All are made with steel standard and cap, sloping landside and adjustable slip heel.



Prices Climax Plows.

PONY.—Light, 1-horse, 7-in. cut, wood beam; very popular. Price, with extra steel point, weight 37 lbs., \$2.75.

A. O.—1-horse, 8-in. cut, wood beam, with extra steel point, weight 41 lbs., \$3.25.

B. O.—1-horse or light 2-horse, 9-in. cut, wood beam. Designed for either stubble or light sod, doing both kinds of work in the most satisfactory manner; very light draft. Price, with extra steel point, weight 43 lbs., \$3.75.

C. O.—2-horse, 10-in. cut, wood beam, with extra steel point, weight 63 lbs., \$5.25.

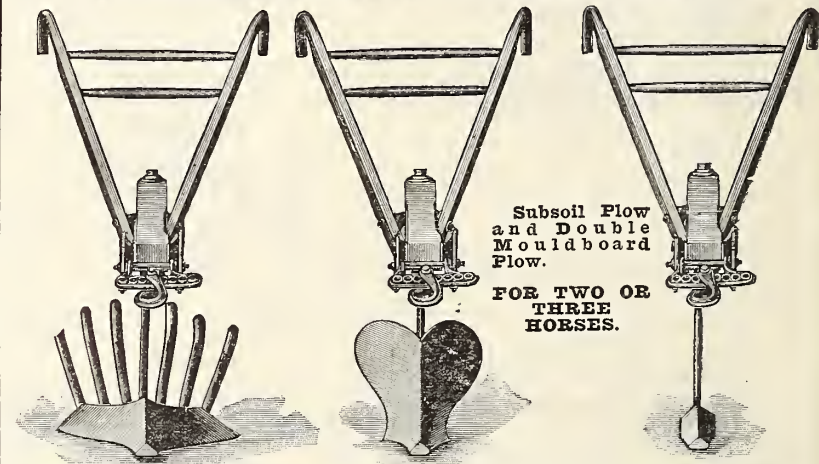
D. O.—2-horse, 11-in. cut, wood beam; it turns its furrow slice perfectly. Price, with extra steel point, weight 66 lbs., \$5.75.

Prices of Extras.

	Points	Lands	Moulds.
Pony	\$.30	\$.20	\$.55
A. O. ....	.40	.25	.65
B. O. ....	.50	.25	.80
C. O. ....	.60	.30	1.10
D. O. ....	.70	.30	1.25

	Beams without Clevis	Handles per pair, less bolts	Wood Beam
Pony	\$1.00	\$.75	\$.20
A. O.	1.00	.75	.20
B. O.	1.25	.75	.25
C. O.	2.10	1.00	.35
D. O.	2.10	1.00	.35

COMBINATION POTATO DIGGER



Subsoil Plow and Double Mouldboard Plow.

FOR TWO OR THREE HORSES.

The standard is made of malleable iron, 6 1/2 inches wide at the narrowest point, and firmly bolted to the beam. The double mould and points and digger mould are made of chilled cast-iron, polished, and digger fingers of wrought iron. Altogether a very strong and serviceable implement.

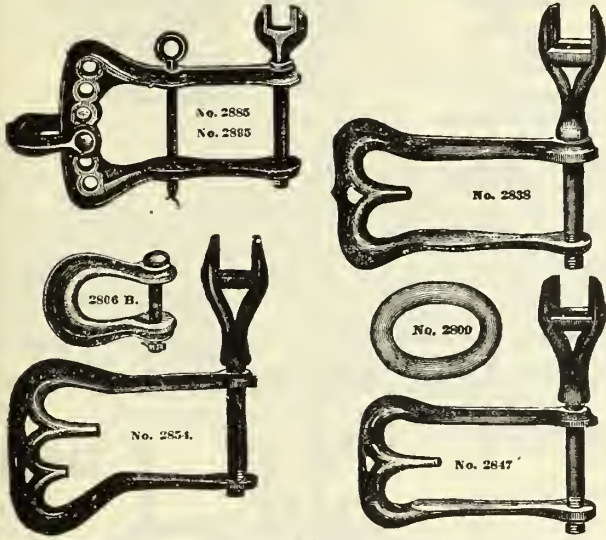
Subsoil Plow, plain.....	\$5.00
Subsoil Plow, with wheel.....	6.00
Double Mould for same, 12-inch.....	1.00
Extra Shares for Double Mouldboard, 6-inch.....	.35
Extra Shares for Double Mouldboard, 8-inch.....	.40
Extra Shares for Subsoil Plow.....	.30
Potato-Digging Attachment for same.....	2.00
Same with Steel Beam, add.....	1.00



PLOW HANDLES—Not Finished

1 1/4 x 2 inches, 4 1/2 feet long, per pair.....	\$.30
1 1/4 x 2 inches, 5 feet long, per pair.....	.35
1 1/4 x 2 1/4 inches, 5 feet long, per pair.....	.40
1 1/4 x 2 1/4 inches, 6 feet long, per pair.....	.45
1 1/4 x 2 1/4 inches, 7 feet long, per pair.....	.65
1 1/2 x 2 1/4 inches, 5 feet long, per pair.....	.60
1 1/2 x 2 1/2 inches, 5 1/2 feet long, per pair.....	.70
1 3/8 x 2 inches, Side Bend, per pair.....	.40

MALLEABLE CLEAVISES



No. 2885.—2 1/4-in. beam; 2 7/8-in. from center of wrench to center of pin; 6 3/4-in. extreme length; 6 holes; shackle and pin. For use on No. 5 F. F. and similar cast plows. List price, doz., \$2.90. Retail price, each, 25c.

No. 2895.—2 1/2-in. beam; 3 3/4-in. from center of wrench to center of pin; 7 1/2-in. extreme length; 6 holes; shackle and pin. For use on No. 7 F. F. and similar cast plows. List price, doz., \$4.20. Retail price, each, 30c.

No. 2854.—2-in. beam; 5 3/4-in. extreme length; 3-in. from center of wrench to end of beam. Patent wrench. For use on Girl Champion and similar class plows. List price, doz., \$1.70. Retail price, each, 15c.

No. 2838.—2-in. beam; 6 1/2-in. extreme length; 3 3/4-in. from center of wrench to end of beam. Patent wrench. For use on Southern cast plows. List price, doz., \$1.70. Retail price, each, 15c.

No. 2847.—2-in. beam; 5 3/4-in. extreme length; 3-in. from center of wrench to end of beam. Patent wrench. For use on "Boy" Dixie and similar cast plows. List price, doz., \$1.70. Retail price, each, 15c.

No. 2855.—2-in. beam; 3 3/4-in. from center of wrench to center of pin; 6 3/4-in. extreme length. For use on Hampton Boy and Hampton No. 1. List price, doz., \$2.50. Retail list price, each, 20c.

No. 2806 B.—End Clevis.—3/4-in. inside measure; 3-in. extreme length. List price, doz., 80c. Retail price, each, 8c.

No. 2800—Flow Link.—3-in. long, 2 1/2-in. wide. List price, doz., 60c. Retail price, each, 5c.

Extras for Steel Beam Syracuse Plows

Nos.	No. Horse.	Common shares.	Cutter shares.	Cast lands.	Chilled moulds.	Beams.	Standards.	Slip shares.	Slip points.
7	R. H. only	2	1	1	1	1	1	1	1
8	"	2	1	1	1	1	1	1	1
15	"	3	2	2	2	2	2	2	2
21	L. H. only	2	1	1	1	1	1	1	1
35	"	3	2	2	2	2	2	2	2

Jointers, complete, chilled, \$2.00. Wheels, complete, \$1.00. For Heavy Shares, add \$2. Jointer Points for any of above Syracuse Plows, 20c. Syracuse Base Bolts, 3c.

REPAIRS FOR WIARD PLOWS

Nos.	Kind.	No. Horse.	Price.		
			Shares.	Lands.	Moulds.
62	R. H. only	1 Horse	\$.25	\$.25	\$.75
13	"	1	.35	.50	1.50
10	"	1	.35	.50	2.00
19	"	2	.40	.75	3.00
16	"	2	.40	.75	3.00
13	"	2	.40	.75	3.50
26	"	or 3 Horse.	.40	.75	3.50
27	"	Horse	.40	.75	3.25
28	"	"	.40	.75	3.25
116	Hillside	"	.50	.75	3.00
126	"	"	.50	.75	3.50
130	"	"	.55	.75	2.50

REPAIRS FOR SOUTH BEND PLOWS

Nos.	Shares.	No. Horse.	Shares.	Lands.	Moulds.	Handles, sets complete.	Standards.	Wood Beams.	Shins.
1 B	"	1	.30	.40	1.75	1.25	1.50	.75	...
2	"	Horse	.35	.75	3.50	3.25	3.25	.90	...
2 1/2	"	"	.35	.75	3.00	3.25	3.50	.90	...
3	"	"	.35	1.00	3.00	3.50	3.50	1.00	...
4	"	"	.40	1.00	3.50	3.50	3.75	1.25	...
10	"	"	.40	1.00	3.50	3.50	3.75	1.25	...
15	"	"	.40	1.00	3.50	3.50	3.00	1.25	...
3	Slip	"	.45	1.00	...	...	...	...	...
4	"	"	.45	1.00	...	...	...	...	...
10	"	"	.50	1.00	...	...	...	...	...
15	"	"	.50	1.00	...	...	...	...	...

Jointers, complete, \$2.00. Wheels, complete, \$1.00. Rolling Coulters, \$3.50. Handles, single, all numbers, 50c. each. Other extras not named here can be furnished; price on application. Standing Coulters, \$2.00. Slip Points, each, 10c.

REPAIRS FOR SYRACUSE PLOWS

Nos.	Wood Beam Chilled Plows.	Cutter Shares.	Shares.	Lands.	Moulds.	Beams.	Standards.	Shins.	Slip shares.	Slip points.
50	"	1	.20	.50	1.40	1.75	1.75	...	...
51	"	1	.25	.55	1.85	1.75	2.00	...	...
52	"	1	.25	.65	2.25	1.75	2.25	...	...
53	"	1 or 2 H	.40	.65	2.50	1.75	2.25	...	...
54	"	Light 2.	.45	.75	3.00	2.00	2.50	...	...
55	"	Med. 2.	.45	.85	3.00	2.00	2.50	...	...
56	"	Reg. 2.	.50	1.00	3.25	2.00	2.75	...	...
57	"	2 or 3 H	.50	1.00	3.25	2.00	2.75	...	...
95	L. H.	2 Horse	.45	.85	3.00	2.00	2.50	...	...
96	"	2	.50	.85	3.25	2.00	2.75	...	...
97	"	2 or 3 H	.50	1.00	3.25	2.00	2.75	...	...
501	"	"	.40	1.00	3.25	2.00	2.75	...	...
502	"	"	.40	.85	3.25	2.00	2.75	...	...
503	"	"	.35	.80	3.00	2.00	2.50	...	...
601	R. H.	"	.40	1.00	3.25	2.00	2.75	...	...
602	"	"	.40	.85	3.25	2.00	2.50	...	...
603	"	"	.35	.80	3.00	2.00	2.50	...	...

Repairs for Syracuse Contractors' Plows

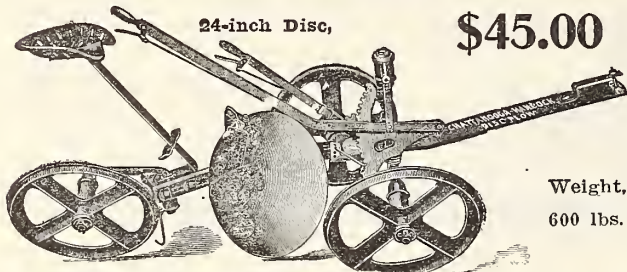
Nos.	For Contractors' Plows, see page 173.	Steel shares.	Moulds.	Beams.	Standards.	Shins.
98	.....	5.00	.....	11.00	.....	.....
1	Heavy Cast	.45	3.25	5.50	.....	.....

Extras for Iron Beam Syracuse Plows

Nos.	No. Horse.	Common shares.	Cutter shares.	Cast lands.	Moulds, chilled.	Beams.	Slip shares.	Slip points.
12-78	"	2	1	1	1	1	1	
1-78	"	2	1	1	1	1	1	
10-78	"	3	2	2	2	2	2	
20-78	L. H. only	2	1	1	1	1	1	
30-78	"	3	2	2	2	2	2	

THE CHATTANOOGA-HANCOCK DISC PLOWS

Single Disc Plow



24-inch Disc,

\$45.00

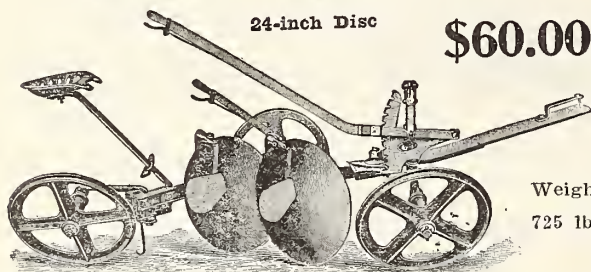
Weight,
600 lbs.

It handles more cubic inches of soil with less draft than any other plow made; it turns under stalks, trash and weeds completely; it breaks up "hard pan" and pulverizes the soil. It leaves the ground at bottom of furrow porous and natural; it prepares the soil to withstand either a wet or dry season; it insures better crops than any other method of plowing.

It is so simple in design, so few in parts and so perfect in construction that anyone can operate it.

It is not a sod plow; it is a pulverizer. You cannot pulverize sod. Everywhere else it is all right.
Single Disc, with double and triple trees, price.....\$45.00
Double Disc, double and triple trees, price..... 60.00

Double Disc Plow



24-inch Disc

\$60.00

Weight,
725 lbs.

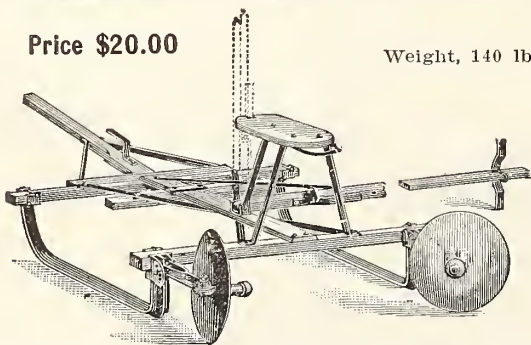
What is said about the single disc pertains to the double. It is only a matter of number of horses. If 100 pounds be added to the draft of the single it will cover the double. It will be seen the difference in draft is comparatively slight.

We guarantee our Disc Plow to do good work, not only in hard, dry and sticky ground, but to do good work in any fallow ground, either clean or trashy; in short, to be good anywhere, at any time, except turf land.

Darnell's Improved Patent Furrower and Marker

Price \$20.00

Weight, 140 lbs.

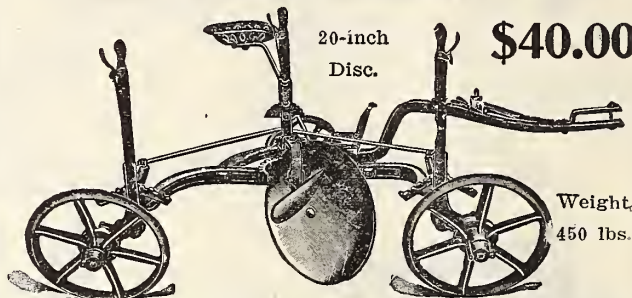


Strong, light and durable. A half-dozen tools in one. Runs steadily and cannot be choked. Adjustable throughout. Broad runners of wrought T-angle iron with rib to prevent sliding on side hill. Revolving discs or furrows 15 inches in diameter, with chilled hub and steel axle.

Price \$20.00.

Neck Yoke and Whiffle Trees..\$2.50

Chattanooga Reversible Disc Plow



20-inch Disc.

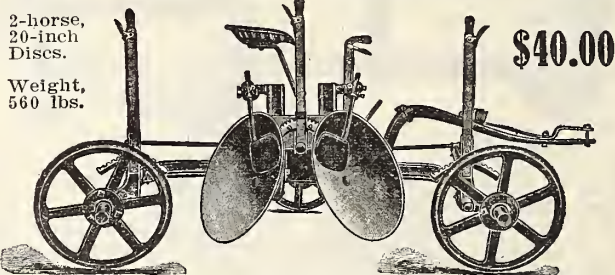
\$40.00

Weight,
450 lbs.

The "Chattanooga" is the only successful Reversible Disc Plow built. On steep hillside, where a team can walk and draw a plow, it works perfectly. The combination of features in **The Chattanooga Reversible** makes it the most valuable of all **Disc Plows**. It can be used right or left hand, plowing around the land, or **Reversible**, throwing furrows all one way. Will plow between terraces **without leaving a water-furrow**.

Will do good work, not only in hard, dry and sticky ground, but will do good work in any fallow ground, either clean or trashy, on hillsides or level land; in short, it will work anywhere, at any time, when plowing can be done, except in sod land. We warrant against breakage for twelve months caused by defects in material or workmanship. Price, \$40.00.

Twin Disc Reversible Plow



2-horse, 20-inch Discs.

\$40.00

Weight,
560 lbs.

It is an accepted fact today that the **Reversible Disc Plow** is the most practical, general purpose plow for level and rolling land or hillsides—the conditions found on nearly every farm.

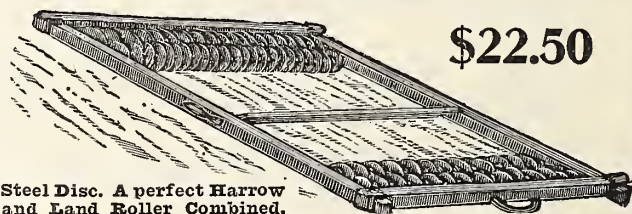
Twin Disc Reversible Plow combines the two essential features that interest plowmen—**Simplicity and Economy**.

In reversing the plow remains stationary; the team turns the tongue and operator. The discs are raised and lowered with the center lever. **This is Simplicity.**

Twin Disc Plow costs no more than Reversible Disc Plow with only one Disc. **This is Economy.**

Same as above, except with 24-inch Discs, 3-horse . . . \$50.00

Meeker Smoothing Disc Harrow



\$22.50

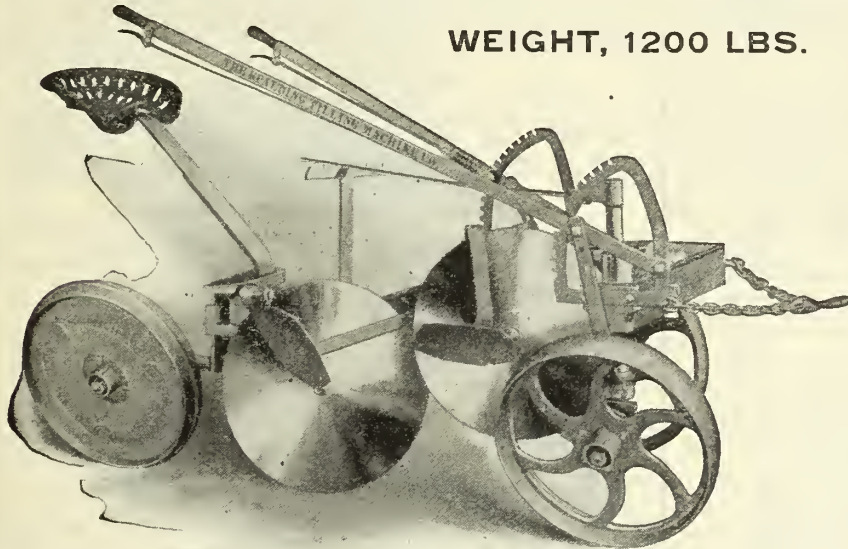
Steel Disc. A perfect Harrow and Land Roller Combined.

The frame measures 6 feet 8 inches by 6 feet, and has four sets of rollers, having 58 discs, 8 inches diameter on them. The discs grind all the lumps so fine that the seed must come up, leveling and leaving the land fine and smooth and doing its work far better than the rake. Price, \$22.50. **Special Discount for Cash.**

THE SPALDING DEEP TILLING MACHINE

Endorsed by Agricultural Authorities, Experiment Stations and Thousands of Practical Farmers in the United States and Foreign Countries.

It is the Only Mechanical Means for Mixing the Top and Bottom Soils Together and Thoroughly Pulverizing the Two Soils.



WEIGHT, 1200 LBS.

Greater Crops Mean Greater Profit for the Users of this Machine

The front disk cuts from four to eight inches, and turns the top trash over into the bottom of the furrow. The rear disk follows in the furrow of the front disk and cuts from six to nine inches deeper. The greater portion of the earth turned by the front disk comes within the path of the movement of the earth cut and lifted by the rear disk, and as the earth passes across the face of this revolving rear disk it is disintegrated, pulled apart and thoroughly mixed with the earth plowed by the front disk, leaving the top trash turned under by the front disk completely covered in the bottom of the furrow.

The Spalding Deep Tilling Machine makes but **one furrow** at a time, although two disks are employed in its construction. Instead of adding to the width, as with the ordinary two-disk plow, the Spalding Deep Tilling Machine adds to the depth. In reality, it is a vertical gang, plowing two furrows deep at a single operation.

The machine will plow and thoroughly pulverize the earth to a depth of from eight to sixteen inches, and make an excellent seed-bed.

Remember this is NOT an ordinary Double Disk Plow.

Baltimore, Md., Oct. 21, 1912.
Gentlemen—It gives me great pleasure to say a word in behalf of the two Spalding Deep Tilling Machines which I purchased from you several months ago. In my judgment, these machines will do more to make farming a success than any machinery I have purchased in the last 20 years. The deep plowing of the land, the pulverizing of the soil and the perfect condition in which the soil is left after being worked by this machine are results which every farmer cannot too highly appreciate. It is my intention to buy four more Spalding Deep Tilling Machines from you next spring, and to plow every acre of land I own with them at least once in three or four years. Four good horses or mules can pull the machine with ease.

Yours very truly,

ROBERT CRAIN.

Mint Spring, Va., Oct. 29, 1912.
Gentlemen—I used one of your Spalding Deep Tilling Machines this fall, and the quality of work it did is beyond comparison. I started this machine in sod that had not had any rain on it for three months; in fact, it was impossible for me to plow it with any other plow. This machine did the work nicely, turning the sod perfectly, and plowed the soil to a depth of 16 inches. I used four small horses, and they handled it nicely. Yours truly,

B. P. GAW.



THE CORN STALKS ARE BURIED UNDER 12 TO 16 INCHES OF SOIL. SO DEEP THAT NEITHER DRILL OR HARROW CAN REACH THEM.

Write for Special Catalogue and Reports of Results.

PRICE \$150.00

EXTRA SET OF DISKS AND FULL EQUIPMENT OF TOOLS WITH EACH IMPLEMENT

THE PLEASURE IN GARDENING OR ANY OTHER PURSUIT IS DOUBLED WITH AID OF A GOOD BOOK. THOSE OFFERED BY US ARE ALL THE LATEST AND BRIGHTEST OPINIONS ON THE DIFFERENT SUBJECTS.

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A compendium of the science, economics and practice of stock raising, dairying and poultry farming, comprising the origin, anatomy, physiology, breeding, feeding, diseases, management, marketing and slaughtering of farm stock and the utilization of animal products. Many superb illustrations. A very valuable reference book. By Earley Vernon Wilcox, Ph.D., Clarence Beaman Smith, M.S., Color plates and illustrations. Cloth, handsome and durable, gold stamping. \$4.50
Half Morocco, with cloth sides and leather corners, very sumptuous.. 5.50

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Farmers' Cyclopaedia of Agriculture. By Messrs. Wilcox and Smith. Experiment Station Editors in U. S. Dept. of Agriculture. 6000 topics. 700 pages. 500 illustrations. Cloth bound. \$3.50
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Alfalfa. By F. D. Coburn. Its growth, use and feeding value. .50
Book of Wheat (new). By P. T. Dondlinger. A complete study of everything pertaining to wheat. New, authoritative and up-to-date. 2.00
Broom Corn and Brooms. By Editors of "American Agriculturist." Raising broom corn and making brooms on large or small scale. .50
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Nodules of Nitrates on Soy Bean Roots
Yielding 1200 Lbs. of Nitrates per Acre.

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Don't pay all your profits to the Fertilizer Companies

Grow legumes to build up worn-out lands. These crops add humus and nitrogen and make available for plant food the potash and phosphates that are in the soil. All legumes, when properly inoculated, will greatly benefit other crops growing with them, and further deposit large amounts of nitrogen in the soil for future crops. The transfer of soil for inoculation is both costly and dangerous. Soil and root diseases and weeds are transferred in this way. Use only the pure culture of recognized standard.

FARMOGERM HIGH-BRED NITROGEN GATHERING BACTERIA SEED AND SOIL INOCULATIONS

Indorsed by farmers and Federal and State Experiment Stations, and in all sections.

Begin this year to build up your farm
and grow better crops.

Your yield of wheat, corn, oats and fruit can be greatly increased by planting legumes that have been treated with Farmogerm.

PEAS — BEANS — SWEET PEAS

Bear better, bear earlier, bear longer, when inoculated. Leading truckers and gardeners strongly advise Farmogerm inoculations on all their legume crops. Farmogerm comes in a bottle ready to mix with the seeds. You can inoculate seed for ten acres in ten minutes.



Farmogerm Results with Alfalfa.

Prices.
5-Acre Bot., \$9.00
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FREE BOOK.

FOR
ALFALFA
CLOVERS
SOY BEANS
COW PEAS
AND
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RAX SCIENTIFIC RATS AND MICE DESTROYER



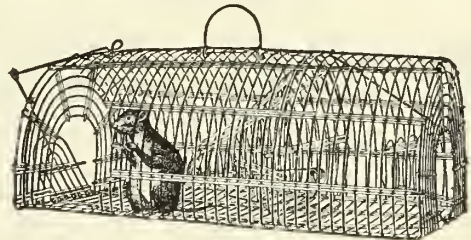
Rax is a bacteriological preparation, containing Pure Cultures of an active Virus, which has a deadly effect on Mice, Rats and Field Mice, but is harmless to all other animals, such as Dogs, Cats, Rabbits, Poultry, Stock, as well as to Human Beings.

Thus Rax is not a poison and may be used without the precaution necessary in handling other rat exterminators.

Rats and Mice having eaten the bait prepared with Rax become gradually sick and die within ten to fourteen days. While infected they communicate the Virus to other rats and mice coming in contact with them or their haunts. They never die inside the buildings, as they become very feverish and seek the open to get fresh air and water.

Rax has no equal as a destroyer of Rats and Mice.
Directions with every package. Price, 50c.

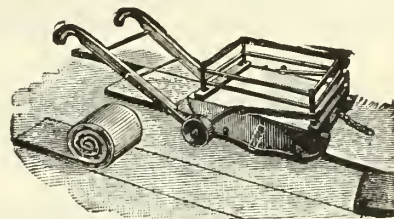
THE "CLIMAX" RAT TRAP



The size of this trap makes it the ideal for house use. It is strong and will stand rough use. The patent door eliminates all danger from the caged rats. Size—17 inches long, 9½ inches wide, 7 inches high.

No. 17—Coppered wire; nine sheet-steel flanged ribs.
Price, 50c.

RICHMOND SOD CUTTER

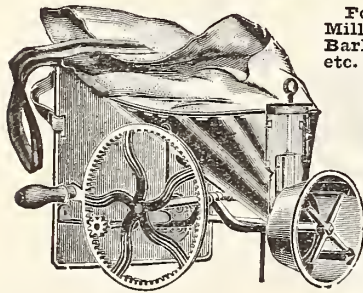


This machine is meeting with high endorsement among railway men and others, and has proved to be a great success. It will enable you to beautify your station grounds, parks and lawns at a low minimum of cost. This new implement cuts the sod of uniform width and thickness, in any length, so that it is particularly adapted to giving solidity to slopes in cuts and on embankments, working equally well on level or uneven surface, cutting both ways with the land and leaving no sod uncut. It being light of draft, easily managed, strong, neat and durable, warrants us in making this recommendation.

One machine will cut from 30,000 to 40,000 square feet per day, thus doing the work of forty men. **Instructions for Operating Furnished with Each Machine.**

12-inch Machine, List Price, \$33.00; Our Special Price, \$30.00.
14-inch Machine, List Price, \$35.00; Our Special Price, \$32.50.

CAHOON'S BROADCAST SEED SOWER

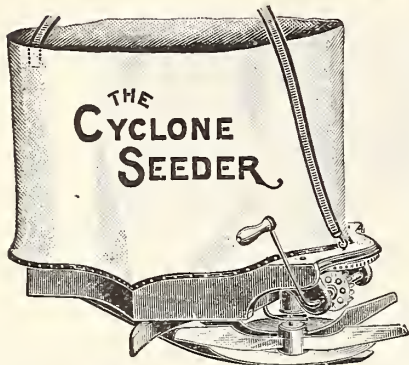


For sowing Clover, Timothy, Millet, Oats, Wheat, Hemp, Barley, Rye, Rice, Buckwheat, etc. Standard Seeder of the World—A Model for Accuracy and Durability—Malleable Iron Frame—Steel Hopper and Gate—Brass Discharger.

The breadth of the cast will be according to the weight of the seed. Wheat and Rye, 30 to 36 feet. Oats, 21 to 25 feet. Barley, 27 to 33 feet. Clover, Millet, Hungarian Seed, 20 to 24 feet. Hemp, 27 to 30 feet. Timothy, 15 to 18 feet.

OUR SPECIAL PRICE, \$3.00.

THE ORIGINAL IMPROVED CYCLONE



Although this machine has been much improved and simplified in recent years, yet the same general principles which characterized it when sold from \$10.00 to \$12.00 each are still retained. It differs materially and very advantageously from all other Sowers in having a slope feedboard with an oblong hopper which terminates in a metal edge, on which edge oscillates a feed plate which does not allow the seed to become clogged, but makes a positive force feed and

insures a uniform flow and even distribution of seed. Anyone desiring a convenient, practical and an all-round first-class grain and grass seeder, a good, large sower that will meet the most exacting demands, we cannot recommend the **CYCLONE** too highly.

PRICE.....\$1.25.

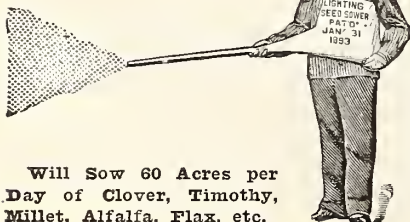
CHICAGO SEEDER

This machine is sometimes called the **Fiddle Bow Seeder**. Has few wearing parts, not liable to get out of order, and generally recognized as the best Bow Seeder made.

PRICE.....\$1.00.

LIGHTNING SEED SOWER

Cheap, durable, weighs only 12 oz. Simple; no repairs.



Will spread seed evenly from 30 to 40 feet. Method of sowing is by swinging tube in horizontal position from right to left, which closely resembles the old method by hand. Gives control over seed on a circle of 8 feet before it leaves the tube, and the wind has no chance to blow seed into bunches before it strikes the ground.

PRICE, 75c.

Thompson's Clover & Grass Seeder

Sows 14 to 16 Feet Wide, Any Amount Desired Per Acre. Will Sow 20 to 25 Acres Per Day.

This Grass Seeder is simple, without gearing, cams or intricate machinery. It cannot get out of order.



Perfection feed is attained in making it absolutely positive, yet a non-leaking carrier when thrown out of connection. The quantity of seed to the acre is accurately shown by the index plate.

It is strong, yet weighs but 40 pounds. No. 1—Complete Clover and Grass Seeder, the most popular style. 14-foot, \$6.50; 16-foot, \$6.75.

No. 5—Complete Seeder, with Double Hopper, sows Red Top, Orchard Grass, Blue Grass, Lawn Grass, as well as Clover. 14-foot, \$8.50.

MANILA ROPE FEEDER.

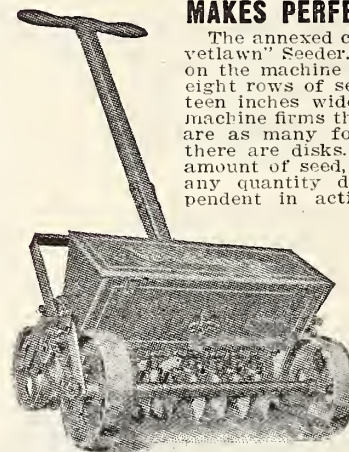
Thompson's Royal Clover and Grass Seeder

These Seeders are similar to the Thompson above, except they have **Chain Feed**.

No. 11—14 ft., single hopper.....\$6.50
No. 11—16 ft., single hopper..... 6.75
No. 12—14 ft., double hopper..... 8.50

"VELVETLAWN" SEEDER

MAKES PERFECT LAWN AND GREENS

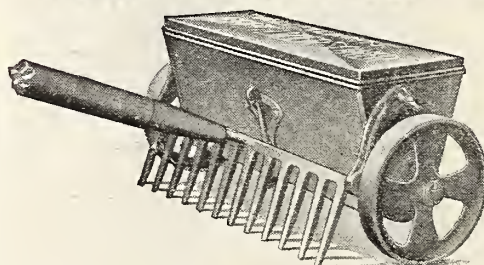


The annexed cut shows front view of "Velvetlawn" Seeder. There are eight single disks on the machine set two inches apart. Plants eight rows of seed at a time, or a strip fifteen inches wide. The roller at the rear of machine firms the earth over the seed. There are as many force feeds on the Seeder as there are disks. Every feed sows an equal amount of seed, and feeds can be set to sow any quantity desired. Each disk is independent in action and automatically conforms to the inequalities of the ground.

All old sod is root bound. The cutting action of the disks relieves this condition, cultivates the grass roots, and at the same time plants new seed IN THE SOD—NOT ON TOP.

Our Special Price, \$15.00

VELVET FERTILIZER SOWER



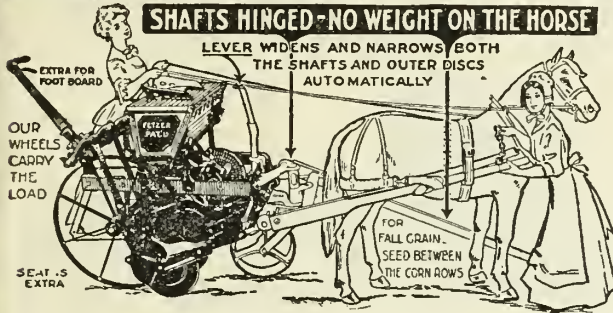
The only hand-power Fertilizer Sower on the market that will sow evenly, accurately and any desired amount, all brands of pulverized dry fertilizers. The Fertilizer Box, or Hopper, is made

of heavy Galvanized Metal and holds fifteen pounds. The amount sown is under absolute control. It is equipped with an Agitator, as well as Force Feeders. It insures the even spreading of fertilizer over ground the entire width of machine, and machine is so close to the ground that the wind has no chance to blow fertilizer about while being sown. Our Special Price, \$6.00.

MODERN ONE-HORSE DRILL. FIVE DISKS

SHAFTS HINGED-NO WEIGHT ON THE HORSE

LEVER WIDENS AND NARROWS BOTH THE SHAFTS AND OUTER DISCS AUTOMATICALLY

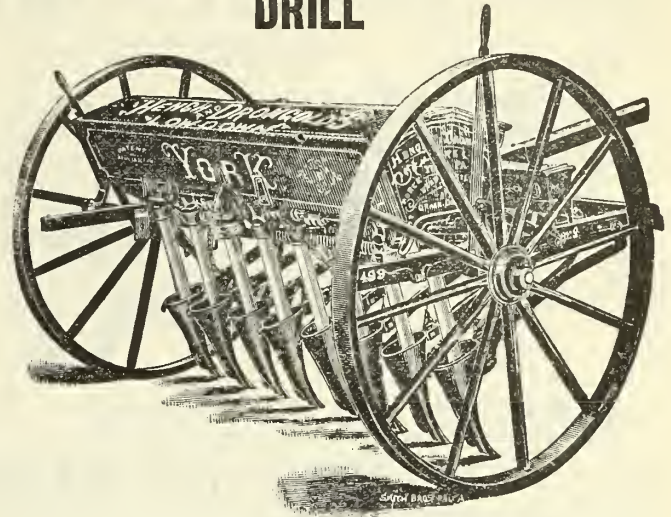


Just the thing for the Farmer, Truck Farmer and Gardener. Cups are fitted for sowing peas, beans, ensilage, corn and sugar beet seed, as well as wheat, rye, flax and oats.

With the disks set 7 inches apart, the distance between outside disks is only 28 inches (or 8 inches apart is 32 inches), so that the drill will safely pass between corn rows 36 inches or wider apart.

	List Price.	Our Special Price.
Price	\$41.60	\$31.00
Extra for Truck Wheel	3.00	2.25
Fertilizer Attachment extra	9.00	6.75
Grass Seeder Attachment extra	4.50	3.35
Footboard extra	1.00	.75
Extra for Widening and Narrowing Lever	2.00	1.50

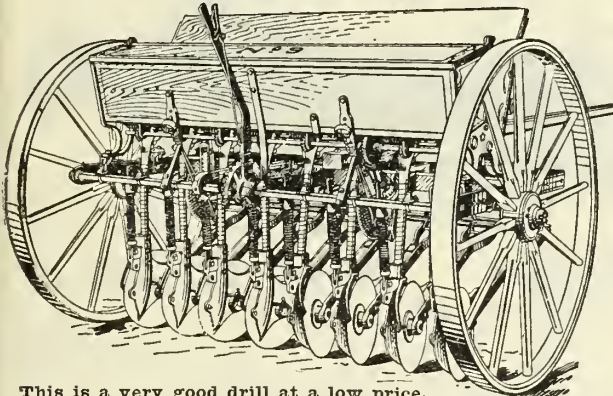
YORK GRAIN AND FERTILIZER DRILL



Both the grain and fertilizer are positive force feeds, and will sow with absolute regularity any kind of grain or fertilizer in good condition. The grass seeder is also a force feed, and can be used either in front or rear of the hoes; also quantity can be changed to any amount necessary. It is fastened on the frame and very low down, thus preventing the wind from blowing the seed away before reaching the ground. The fertilizer feed can be stopped or started at any time while the drill is in motion, which makes it convenient in case the operator does not wish to sow fertilizer while going over good ground.

8-Hoe Pin	\$67.25	10-Hoe Spring	78.00
9-Hoe Pin	70.75	11-Hoe Spring	81.75
10-Hoe Pin	74.50	8-Disk Drill	73.25
11-Hoe Pin	78.00	9-Disk Drill	76.75
8-Hoe Spring	70.75	10-Disk Drill	81.00
9-Hoe Spring	74.50	11-Disk Drill	85.00

THE PLYMOUTH DISK GRAIN DRILL



This is a very good drill at a low price.

It is practical and made of the best material. It is the only drill on the market that has a footboard going entirely across the drill, because other drills are not strong enough to stand it. The feed cups are of the latest pattern.

The scrapers for disks are adjustable and of spring steel.

	List Price.	Our Special Price.
Prices include Fertilizer Attachment.		
8-Disk	\$96.30	\$72.00
9-Disk	102.00	76.50
10-Disk	107.20	80.00
11-Disk	112.90	84.50

THE PLYMOUTH HOE DRILL

Roller-Bearings in the Axle Boxings make this machine very light in draft.

It feeds accurately and does not break the seed.

	List Price.	Our Special Price.
8-Hoe Spring	\$91.70	\$68.75
9-Hoe Spring	98.10	73.50
10-Hoe Spring	105.00	78.75
8-Hoe Pin	88.50	66.25
9-Hoe Pin	94.30	70.50
10-Hoe Pin	101.00	75.75
11-Hoe Pin	107.00	80.25

GRAIN DRILL POINTS

We are one of the largest Distributors of GRAIN DRILL POINTS AND TUBES in the Country.

For All the Leading Grain Drills.

IN ORDERING POINTS, either send an old one or give name of Drill, length of point, and be sure to give distance from center of hole to end of point. It is always best, if possible, to send an old sample.

Price, Points, each.....10c.

GRAIN DRILL TUBES



Plain Top.



Ring Flange.



Bell Top.



Flat Flange.



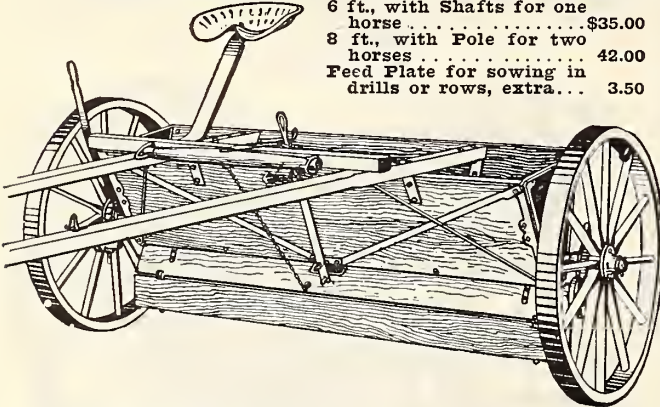
Galv. Conductor.

IN ORDERING TUBES it is always best to send an old tube as a sample. If that cannot be done, be sure to state name of Drill, the kind of Tube, whether ring flange or plain top, or special bell-shaped top with straps, and by all means the length and diameter at top and bottom.

Plain Tubes, each	25c.
Bell Top Tubes, with strap, each	35c.
Flat or Ring Flange Tubes, each	30c.
Galvanized Conductors, each	40c.

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

Gritco-R Broadcast, Fertilizer and Lime Distributer



6 ft., with Shafts for one horse\$35.00
 8 ft., with Pole for two horses 42.00
 Feed Plate for sowing in drills or rows, extra... 3.50

The rapid increase in the use of lime and commercial fertilizer demands a machine to apply these materials which is moderate in cost and accurate in its distribution. This distributor is designed for broadcasting lime, ashes and commercial fertilizer, and it will distribute in drills or rows when supplied with an extra feed plate especially punched according to the width of the row.

The amount of fertilizer this machine will sow to the acre depends somewhat on its weight per bushel, as well as its condition, but the 13 notches of feed opening average to spread from 250 lbs. per acre at the lowest notch to 3550 lbs. at the highest notch.

Special features make this distributor lead all machines of its kind and work where others fail.

The Agitator, or beater, in bottom of the hopper revolves only when the load is being spread. It does not turn constantly.

Revolving Prongs with 3 1/2-inch spaces placed directly over the feed openings make a forced feed that is most satisfactory.

The Feed Plate is of short sections of cast iron, and the slide plate directly beneath it is of steel, separated from the feed plate by liners.

Hand Shaker (at the driver's right hand) is used only when fertilizer is damp or does not fall freely into the agitator. It helps even spreading, which is a great feature.

The Shaker Board hangs from the bottom of the hopper, and broadcasting the fertilizer evenly.

The Wind Break hangs from the shaker board, free to swing in any direction if an obstruction is met, and prevents wind sweeping under the machine and carrying the fertilizer away.

NEW IDEA MANURE SPREADER

The **New Idea Spreader** is built like a wagon with reach pole gear, and has a solid bottom to body, making it stronger and lighter draft than others. There is no heavy bottom to return, and the whole machine is under control of two levers: one to regulate the number of loads per acre; the other to throw the machine in and out of gear. After the feed regulating lever is set, the operator has only the one lever to attend to. This is a point for thinking farmers. Front wheels turn under the body up to the reach pole, making it a short-turn machine. This is another valuable feature.

The **New Idea Spreader** is very simple. It has a straight all-chain drive. The pull is direct from the axle sprocket to the cylinder sprocket. There are no clutches nor cogs to wear out or break. This feature will appeal to every farmer who has used a Manure Spreader.

It pulverizes the manure thoroughly, and distributes the same evenly and in a wide stream.

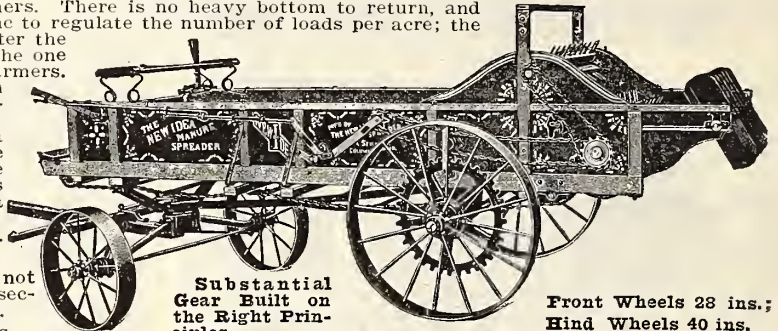
Should the pulverizing cylinder have missed or not fully broken up a particle of manure, it will get a second pulverization from the rapid rotating distributor.

This machine will track with regular farm wagons.

PRICES OF NEW IDEA MANURE SPREADERS.

55-Bushel capacity, with Doubletrees and Neck Yoke.....	\$120.00
75-Bushel capacity, with 3-Horse Eveners.....	125.00
100-Bushel capacity, with Doubletrees and Neck Yoke.....	135.00
Brake, additional.....	5.00

SPECIAL DISCOUNT FOR CASH. Write for Special Circular of New Idea Spreader.



Substantial Gear Built on the Right Principles.

Front Wheels 23 ins.; Hind Wheels 40 ins.

THE BALTIMORE LIME AND ASH SPREADER

A strong and substantial machine, with spreading capacity of from 15 to 80 bushels to the acre. Quantity can be regulated at will of the operator. Wheels are 4 1/2 feet high. Has six feeds and will spread 7 1/2 feet wide. Box or hopper is fitted with powerful agitator, which breaks any arch formed by lime, ash or commercial fertilizer. Lime is fed out on a distributing board or shaker, which can be set at different elevations, and this, in vibrating, distributes the lime evenly and regularly. The lime falls but a few inches, thus avoiding dust to either

driver or horses. If the wind is very strong an apron can be tacked, if desired, in front of the hopper. Ordinary lumps going through the attachment sieve will not interfere with the sowing; also furnish an extra cap and large wheel, whereby fertilizers of every description and plaster can be sown in quantities as low as 300 pounds per acre, and, if coarse, 250 pounds per acre. Hopper holds 18 bushels slaked lime.

List Price.....\$135.00
 Our Special Price..... 75.00

H & D Single Row Fertilizer Distributer

Opens the row and at the same time distributes the fertilizer evenly; also a rear shovel to mix the fertilizer with the soil, which is very important.



Furnished with Scoring Shovel.
 List Price.....\$21.00
 Our Special Price..... 15.00

OUR SPECIAL FERTILIZER DISTRIBUTER

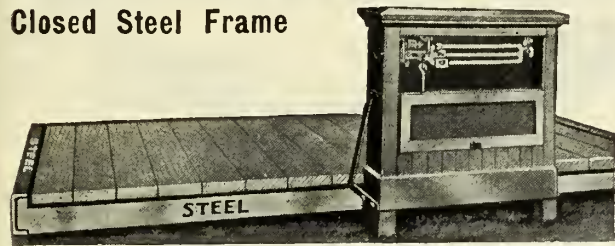


This cut shows **Our Special Fertilizer Distributer**, which has become very popular. It has a positive force feed, and will sow all kinds of fertilizer. It is made of the best material, and is practical.

List Price, \$19.00; Our Special Price, \$15.00.

THE STRAIGHT LEVER PITLESS SCALE

Closed Steel Frame



The demand for a shallow or so-called Pitless Wagon Scale has increased from year to year until now a great many farmers will consider nothing else. Most manufacturers have failed to develop a reliable scale of this type. The Osgood Company has had the good fortune to work out the idea along standard lines of construction and to couple the Pitless with an unquestionable system of levers. **Every lever is independent. Every lever is sealed to its own multiplication. Every lever is made interchangeable. Every lever is made of steel. Every lever is direct connected.** This is an accurate U. S. standard weighing machine that will last practically forever.

No.	Tons.	Plat- form.	Description.	List.	Our Price.
720	3	14x8	Wood Floor Beams.	\$118.50	\$71.10
722	4	14x8	Wood Floor Beams.	120.50	72.30
724	4	14x8	Steel Floor Beams.	145.00	87.00
726	5	14x8	Wood Floor Beams.	122.50	73.50
728	5	14x8	Steel Floor Beams.	147.50	88.50
734	6	14x8	Wood Floor Beams.	145.00	87.00
736	6	14x8	Steel Floor Beams.	160.00	96.00

PORTABLE SCALES THE OSGOOD

The pivots and bearings, both in the beam and under the platform, are made of strong, hard, finely-tempered steel. The beam, sliding poise and thumbscrew are of highly polished brass. The castings are extra heavy, the platform full size, and the axles run through the frame. The pillar, caps and board are of the best seasoned hardwood.

Every Scale is carefully sealed with United States Government standard weights and guaranteed absolutely correct. The below prices are with wheels.

Size Platform.	List Price.	Retail Price.
400-lb.....15x21		
600-lb.....16x25		
800-lb.....17x26		
1000-lb.....17x26		
400 lbs..	\$26.00	\$15.75
600 lbs..	33.00	19.75
800 lbs..	38.00	22.75
1000 lbs..	43.00	25.75

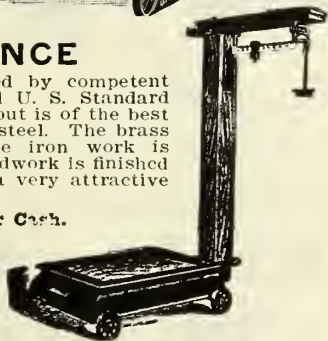


THE DEFIANCE

They are carefully adjusted by competent workmen, and are guaranteed U. S. Standard Scales. The material throughout is of the best quality, and all pivots are of steel. The brass work is highly polished; the iron work is japanned in black, and the woodwork is finished in its natural color, making a very attractive combination.

Special Discount for Cash.

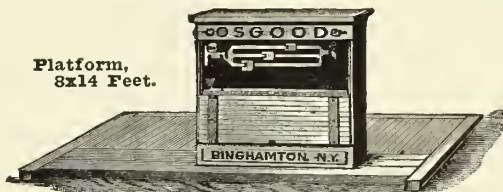
600-lb.—Size of Platform,	16x23.	\$11.00.
800-lb.—Size of Platform,	16x25.	\$12.00.
1000-lb.—Size of Platform,	17x26.	\$13.50.



OSGOOD'S PIT WAGON SCALES

THE HERCULES (Trussed Steel Levers).
THE CHALLENGE (Wood Levers).

Built on direct leverage plan. The load at any point on the scale platform will weigh the same. Fitted with patent protected steel-lined cushioned bearings, which are protected from dirt and water. Knife edges of best tool steel; beams and poises best quality red brass, polished. Tripled beam requires no loose weights. Platform, 8x14 feet.



Platform, 8x14 Feet.

THE HERCULES STEEL LEVER SCALES.

No.	Capacity.	Double Beam.		Triple Beam.	
		List.	Retail.	List.	Retail.
250	3 tons.	\$71.00	\$43.00	\$80.00	\$48.00
260	4 tons.	78.00	47.00	85.00	51.00
262	5 tons.	83.00	50.00	90.00	54.00

THE CHALLENGE WOOD LEVER SCALES.

No.	Capacity.	Double Beam.		Triple Beam.	
		List.	Retail.	List.	Retail.
75	3 tons.	\$54.00	\$32.50	\$60.00	\$36.00
80	4 tons.	60.00	36.00	65.00	40.00
85	5 tons.	66.00	40.00	72.00	43.50

Prices do not include wood frame or platform. On Challenge Scale customer furnishes wood levers. We do not furnish extension levers with any of the above scales.

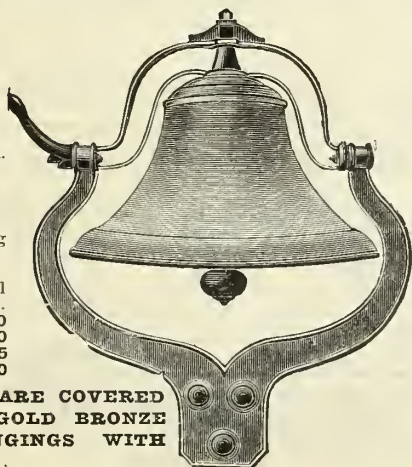
CRYSTAL METAL FARM BELLS

No.	Wt. Com- plete.	Diam. of Bell.
1....	40 lbs.	15 in.
2....	50 lbs.	17 in.
3....	75 lbs.	19 in.
4....	100 lbs.	21 in.

Prices, including hangings complete: Bronzed.

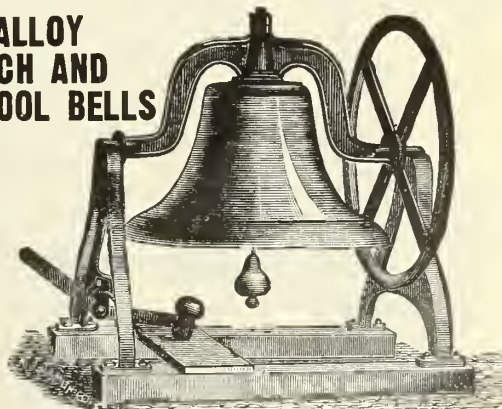
No.	List Price.	Retail Price.
1....	\$4.00	\$2.00
2....	5.00	2.50
3....	7.50	3.75
4....	10.00	5.00

THESE BELLS ARE COVERED WITH A RICH GOLD BRONZE AND THE HANGINGS WITH GOOD VARNISH.



STREET ALLOY CHURCH AND SCHOOL BELLS

Cast from an alloy of cast steel and crystal metal, and can be relied on under all circumstances and in all seasons.



No.	Diam.	Weight, Bell only.	(MOUNTED) Wt. Complete.	List Price.	Retail Price.
22	22 in.	122 pounds.	175 pounds.	\$20.00	\$16.00
24	24 in.	153 pounds.	225 pounds.	25.00	20.00

Tolling hammer not furnished with No. 22. When furnished with No. 24, List, \$5.00; Retail, \$4.00. Prices on above named are for **COMPLETE BELLS**, and include wood sills and iron wheel.

HENCH & DROMGOLD'S CORN PLANTERS

	List.	Retail.
Plain Planter.....	\$19.00	\$12.00
Planter with fertilizer attachment.....	23.00	15.00
Extra Dropping Dies, each.....	.60	.50
Special Price for Cash.		

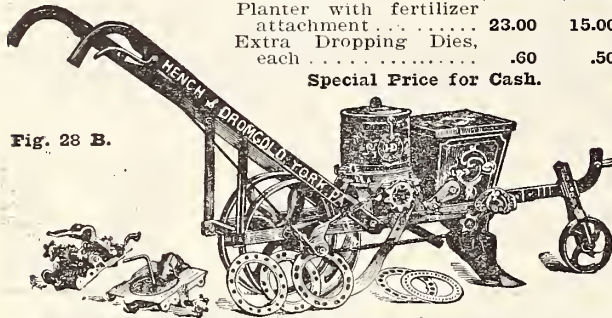


Fig. 28 B.

In all of these Planters the top part of corn-box is made of heavy sheet iron, riveted to a cast ring which is hinged to the bottom, and by loosening one thumb-nut can be turned to the side and the rings changed and the bottom cleaned out nicely.

On all machines where fertilizer attachments are used the fertilizer box sets lower on the frame, has less number of pieces, less complicated and the most positive force feed of any Planter on the market. Will sow from 20 pounds to 450 pounds per acre, and if a larger quantity is wanted use the five-point chain wheel, and it will sow 525 pounds per acre.

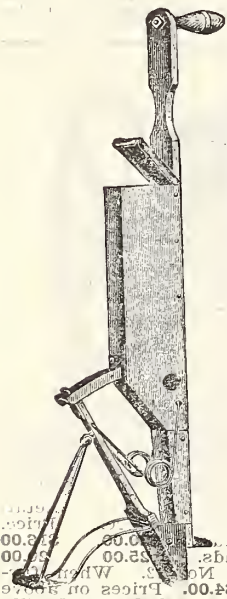
NOTE.—If the rows are marked out closer than three feet six inches it will sow more per acre.

It has the same dropping device and fertilizer feed as our other Planter.

All of the H. & D. Planters have the spring trip cut-off in the corn hopper instead of the brush. This is preferable to the brush, as it does not break any corn and is more durable.

Three Chain Wheels are furnished with plain Planter and four with fertilizer. The six-point chain wheel drops one grain 13 inches or two grains 26 inches apart. The seven-point drops one grain 15 inches or two grains 30 inches apart. The eight-point wheel drops one grain 17 inches or two grains 34 inches apart. The nine-point wheel drops one grain 19 inches or two grains 38 inches apart. We can also furnish rings for planting Peas, Beans, Ensilage Corn, and by using the different chain wheels can plant any desired amount.

GRITCO HAND CORN PLANTER



In the Gritco there is no chance of cracking the corn, beans or other delicate seed, because of the Chinese bristle brush cut-off. No casting about the planter. The stamped steel slide is formed on a segment of the circle, whose center is the pivot of the blades. Means are provided to plant pumpkin seed at the same time with the corn. Slide quickly adjusted for different sized seeds. Galvanized iron hopper, smooth, polished hardwood handle. **List, doz., \$18.00. Retail, each, \$1.25.**

American Hand Corn Planters

Are fitted with Sheffield's famous patent adjustable seed disc and spring brass cut-off. The disc revolves similar to disc used in horse planters, and is one of the best finished and most accurate dropping devices ever used in corn planters of any description. **List, doz., \$30.00. Retail, each, \$1.75.**

	List.	Retail.
Plain Planter.....	\$19.00	\$12.00
Planter with fertilizer attachment.....	23.00	15.00
Extra Dropping Dies.....	.60	.50
Special Price for Cash.		

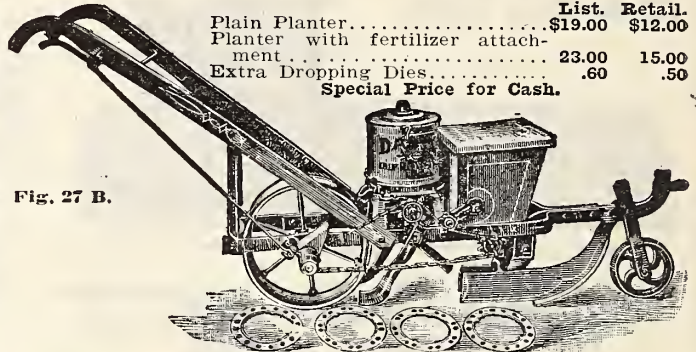
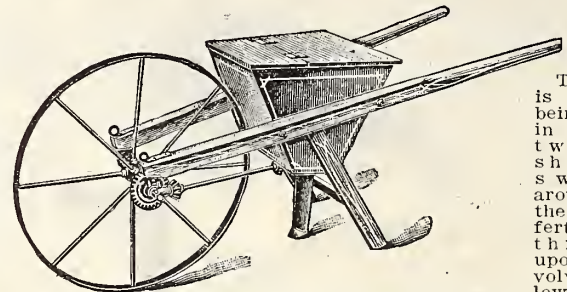


Fig. 27 B.

THESE PLANTERS (FIGS. 28 B AND 27 B) CAN BE FURNISHED EITHER WITH RUNNER OR PLOW FOR OPENING FURROW, AND WITH EITHER DOUBLE OR CONCAVE WHEEL. ALSO BOTH WITH AND WITHOUT FERTILIZER ATTACHMENT. READ THIS CAREFULLY, AND ALWAYS SPECIFY THE STYLE WANTED.

BALTIMORE PEA AND FERTILIZER DRILL



The agitator is new style, being of steel in the form of two knife-shaped arms sweeping around under the mass of the fertilizer and throwing it upon the revolving disk below.

A shut-off has lately been added, whereby the waste of fertilizer is stopped when turning at ends of rows. As shown in cut, loops are bolted to frame for the purpose of attaching a horse. Excellent for sowing fodder corn or ensilage. **List Price, \$10.00; Our Special Price, \$6.75.**

Acme Rotary Automatic Hand Corn Planter

ITS ROTARY SLIDE has a motion two ways—back and forth. It prevents skips. No matter how short the stroke, the pocket is pushed into the corn and back into the conveyor tube.

This motion is positive. It breaks up all bridging and fills the pocket uniformly—it counts the kernels for each drop. **List, doz., \$28.00. Retail, each, \$1.50.**

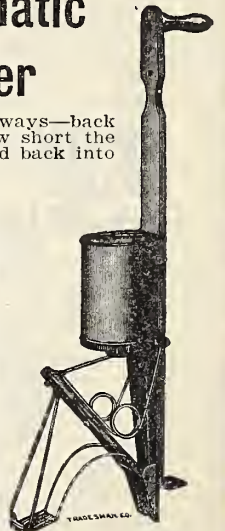
CHECK-ROWER WIRE



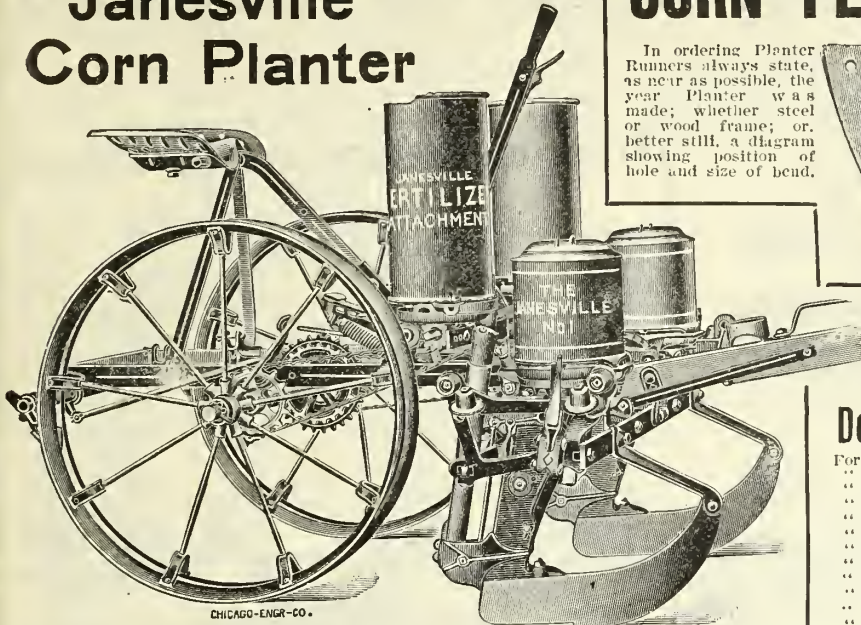
For All the Leading Planters.

Carry in stock the following sizes: 3 ft., 3 ft. 2 ins., 3 ft. 4 ins., 3 ft. 6 ins., 3 ft. 8 ins., 3 ft. 10 ins. and 4 ft. The above comes in 10, 20, 40 and 80-rod rolls. **Per Rod, List, 8c.; Retail, 6c.**

FOR CORN GRADERS SEE NEXT PAGE. UP-TO-DATE FARMERS GRADE THEIR CORN BECAUSE IT PAYS.



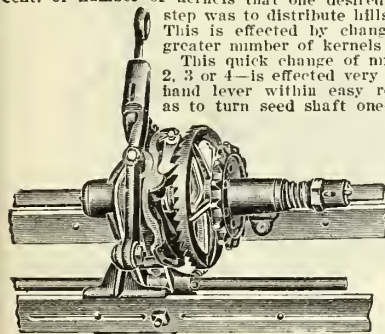
Janesville Corn Planter



CHICAGO-ENGR-CO.

	List Price.	Our Special Price.
Nos. 5 and 7—Plain Planters, with Check Rower, 80 rods Wire, Edge Drop only.....	\$69.00	\$40.00
Nos. 5 and 7—Same as above, with both Edge and Flat Drop Plates.....	71.00	42.50
Nos. 5 and 7—Plain Planters, with either Edge or Flat Drop Plates, without Check Rower.....	59.00	35.00
No. 8—Plain Planter, Drill Drop only, without Check Rower.....	59.00	35.00
For Disk Planters add to above.....	2.00	1.00
Fertilizer Attachment for any of the above, add.....	20.00	10.00

The Janesville Planter is made adjustable in width 3 feet to 4 feet. After the corn planter was developed so as to retain a high average per cent. of number of kernels that one desired to plant in a hill, the next step was to distribute hills according to fertility of soil. This is effected by changing drop from a lesser to a greater number of kernels at operator's will.



The Quick Change 2, 3 or 4 Kernels.

This quick change of number of kernels to the hill—2, 3 or 4—is effected very simply. By operating a small hand lever within easy reach, operator sets clutch so as to turn seed shaft one-sixth, one-fourth or one-third of a revolution, giving 2, 3 or 4 kernels to hill. See cut.

The following points in construction of Janesville corn planters should be noted:

1. Convertible drop—edge or flat. This feature was devised to meet the condition where a farmer on occasion may not care to take the time to select his seed corn.
2. Automatic throw-off to wire—a feature which greatly simplifies the operation of machine.
3. Automatic distribution of wire on reel—another labor and time-saving feature.
4. Chain or gear drive planters with adjustable drop. The disk marker is a great improvement on the drag marker usually employed.

A steel chain is attached to raising lever in such way that it can be made automatic in the operation or set so that operator releases wire at his will.

Through the improved construction it is possible for operator to change from hill drop to drill drop without leaving his seat or even without stopping team. A combined foot drop and drill drop attachment is placed to rocker shaft, which enables operator, by simply pressing this lever by the center, to lock valves in planter opening and throw clutch into gear so it will run continuously and, of course, drill. When used as a foot drop simply do not press the lever down so far.

Valves on Janesville Planter are so placed that there is no possibility of mixing the hills. Upper valve is located so close to seed plate that it cannot get out of time, and lower valve is so constructed that it can free itself readily from dirt or trash that may get into it. The valve movement ensures your being always in check whether you drive fast or slow, and rows will be straight. The force feed takes care of increased momentum in fast driving.

Change from edge drop to flat drop is effected by simply altering seed plates. Change from hilling to drilling is made by throwing clutch in gear with lever. Lastly, without stopping team, 2, 3 or 4 kernels may be dropped to a hill by operating small hand lever within easy reach.

A rod running from rear axle to front frame throws machine out of gear when raised at ends to turn around.

Outside of driving gear, in every other way No. 7 Planter is equipped same as No. 5 Planter.

CORN PLANTER RUNNERS

In ordering Planter Runners always state, as near as possible, the year Planter was made; whether steel or wood frame; or, better still, a diagram showing position of hole and size of bend.

Runners for Single Row Planters

	List Price.	Our Special Price.
For Hench & Dromgold		
Daisy.....	\$2.00	\$1.25
For Farmers' Friend	2.00	1.25
" Hoosier.....	2.00	1.25
" Keystone, No. G ₂	2.00	1.25
For Deere.....	2.00	1.25
" Evans.....	2.00	1.25



For Double Row Planters

	List Price.	Our Special Price.
For Janesville, Nos. 1, 5, 7 and 8.....	\$4.00	\$3.00
" Black Hawk, No. 1.....	4.00	3.00
" Black Hawk, No. 4.....	4.00	3.00
" Black Hawk, No. 5.....	4.00	3.00
" Deere, No. 8.....	4.00	3.00
" Deere, No. 9.....	4.00	3.00
" J. I. Case.....	4.00	3.00
" Evans' Steel Frame.....	4.00	3.00
" Evans' Wood.....	4.00	3.00
" Evans' Simplex.....	4.00	3.00
" Superior.....	4.00	3.00
" Hoosier, No. 5.....	4.00	3.00
" Hoosier, No. 10.....	4.00	3.00
" Hoosier, No. 11.....	4.00	3.00
" Hamilton Steel Frame.....	4.00	3.00
" Hamilton Wood Frame.....	4.00	3.00
" Farmers' Friend, Wood Frame.....	4.50	3.25
" Farmers' Friend, Steel Frame.....	4.50	3.25
" Tiger, No. 4.....	4.50	3.25
" Tiger, No. 10.....	4.50	3.25
" Bullseye.....	4.50	3.25
" Union Victor.....	4.00	3.00
" U. S., Steel Frame.....	5.00	3.50
" U. S., Wood Frame.....	5.00	3.50
" Barlow, Wood Frame.....	5.00	3.50

SEE PAGE 11 FOR SWEET CORN. SEE PAGE 31 FOR FIELD CORN.

PLANTER RUNNER SHOE



Intended for use on most old wornout runners where a new runner cannot be obtained, and it will answer the purpose, but where new runners can be had it is much preferable. Per Pair, List Price, \$2.20; Our Special Price, \$1.50.

Planter Patent Seed Corn Grader

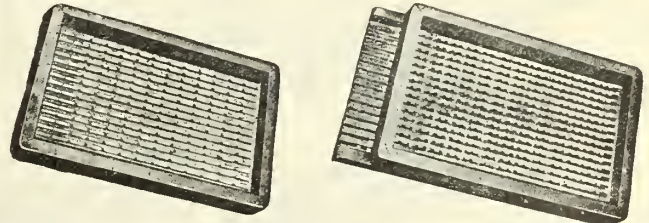
SINGLE SCREEN,

List Price, \$11.00 Dozen. Our Special Price, 75c. Each.

DOUBLE SCREEN,

List Price, \$19.00 Dozen. Our Special Price, \$1.25 Each.

NO ONE WHO PLANTS CORN CAN AFFORD TO BE WITHOUT A CORN GRADER.



Simplest, Perfect Grader. Most Rapid (12 bushels per hour). Absolutely Substantial. Satisfaction Guaranteed.

Endorsed by Corn Growers and Planter Manufacturers.

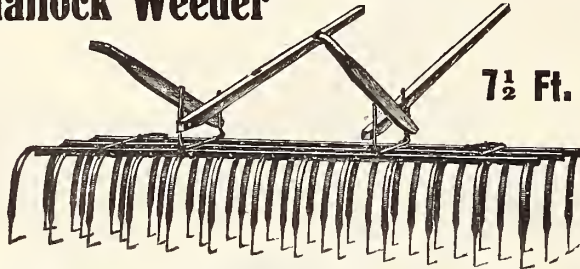
Seed Corn Sorted with the Planter Patent Seed Corn Grader separates the kernels into different sizes.

First—The large, irregular kernels.
Second—The uniform kernels.
Third—Small, round, thin and broken kernels.
The second are the uniform kernels which are the ones that germinate more perfectly and are those that the planter will drop best, and any number you wish can be dropped to the hill. No loss of seed. The corn grower can plant the large, irregular grains if he wishes, or he can also plant the round, thin and broken kernels, but it is not advised by growers, breeders or the majority of Corn Farmers.

HALLOCK AND KEYSTONE WEEDERS AND ATTACHMENTS

By the use of Hallock and Keystone Weeders much time and labor are saved and better crops grown. These weeders or shallow cultivators, as they are sometimes called, can be worked in dry or wet weather. They will not cut the roots of the crop, but cultivate just deep enough to retain the moisture where it is most needed. Use a weeder early and often, and you will be surprised at the results. It is a good policy to use the weeder after a heavy rain, when the ground has been beaten down, to avoid the forming of a hard crust which retards the growth and development of the crops. The flat patented tooth of the Hallock Weeder has made these weeders famous.

Hallock Weeder



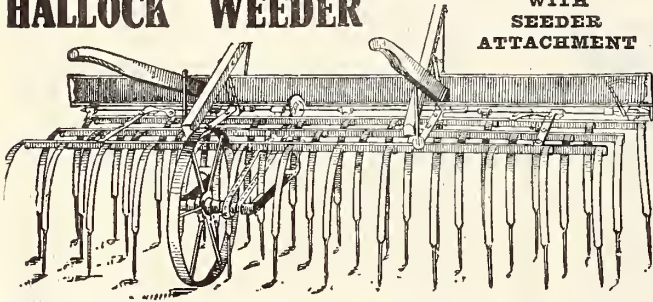
7 1/2 Ft.

Prices of Weeders and Attachments

	List Price.	Our Special Price.
Hallock 7 1/2-ft. Walking Weeder.....	\$15.50	\$10.50
Hallock 10 1/2-ft. Walking Weeder.....	28.00	18.00
Hallock 12-ft. Walking Weeder.....	30.00	20.00
Hallock 7 1/2-ft. Riding Weeder.....	34.50	22.50
Hallock 10 1/2-ft. Riding Weeder.....	52.00	33.00
Hallock 12-ft. Riding Weeder.....	54.00	35.00
Keystone 7 1/2-ft. Adjustable round tooth Weeder	15.50	10.50
Keystone 7 1/2-ft. Adjustable flat tooth Weeder..	17.50	11.50
Seeder Attachment for 7 1/2-ft. Weeder.....	20.50	13.00
Seeder Attachment for 10 1/2-ft. Weeder.....	21.50	13.50
Seeder Attachment for 12-ft. Weeder.....	21.50	13.50
No. 6—Weeder Attachment for Sulky, Hallock tooth	4.00	2.75
No. 7—Weeder Attachment for Sulky Cultivator, reinforced tooth.....	4.50	3.00
Gritco Round Tooth Weeder, 7 1/2-ft.....	12.50	8.00
Gritco Oval Tooth Weeder, 7 1/2-ft.....	14.00	9.00

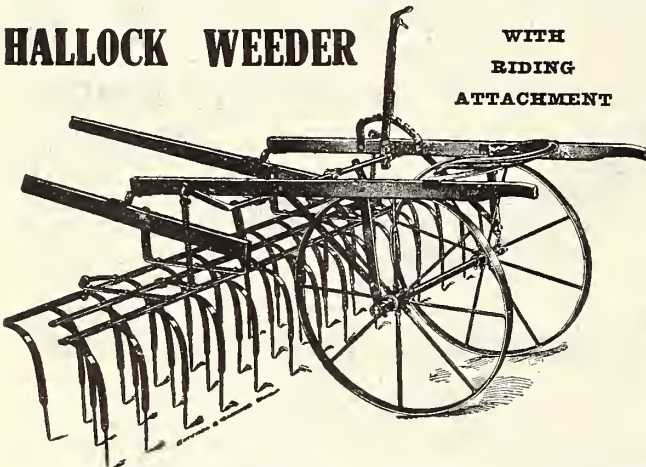
HALLOCK WEEDER

WITH SEEDER ATTACHMENT



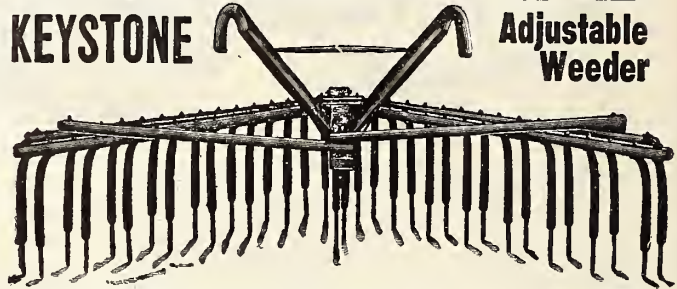
HALLOCK WEEDER

WITH RIDING ATTACHMENT

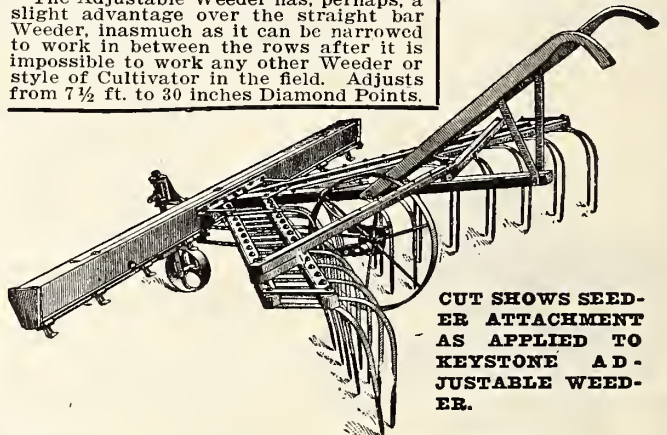


KEYSTONE

Adjustable Weeder

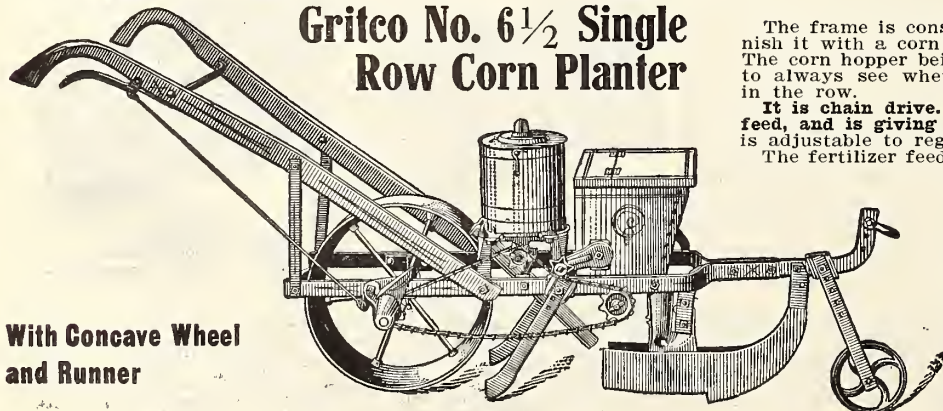


The Adjustable Weeder has, perhaps, a slight advantage over the straight bar Weeder, inasmuch as it can be narrowed to work in between the rows after it is impossible to work any other Weeder or style of Cultivator in the field. Adjusts from 7 1/2 ft. to 30 inches Diamond Points.



CUT SHOWS SEEDER ATTACHMENT AS APPLIED TO KEYSTONE ADJUSTABLE WEEDER.

Gritco No. 6 1/2 Single Row Corn Planter



With Concave Wheel and Runner

The frame is constructed of heavy steel, and we furnish it with a corn hopper of sheet iron as illustrated. The corn hopper being in the rear permits the operator to always see whether the corn is dropping properly in the row.

It is chain drive. Fertilizer feed is a positive force feed, and is giving the best satisfaction. Front wheel is adjustable to regulate depth of planting.

The fertilizer feed will sow from twenty to four hundred and fifty pounds per acre.

We furnish the planter with four rings or dropping dies. Two with small holes, and two with large holes, for dropping one or two grains to a hill.

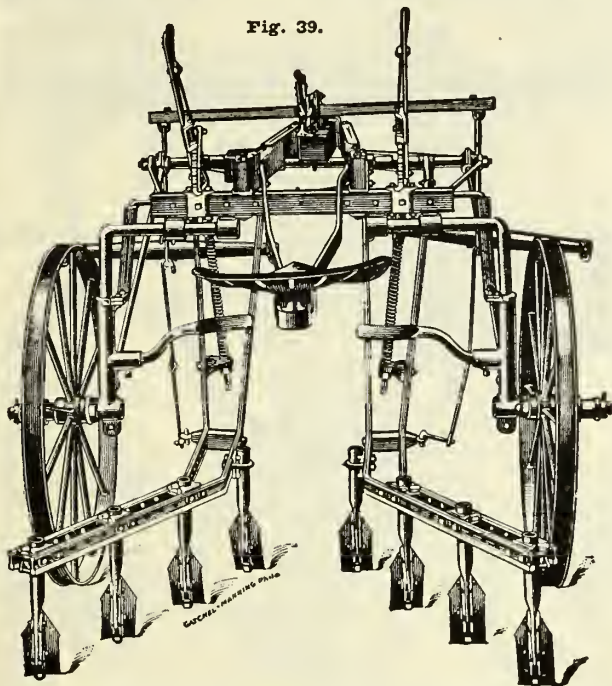
Five chain wheels are furnished with the Planter, so as to suit all kinds of planting.

Without Fertilizer Attachment, List Price, \$19.00; Our Special Price, \$12.00.

With Fertilizer Attachment, List Price, \$22.00; Our Special Price, \$15.00.

Keystone No. 55 Riding Cultivator

Fig. 39.



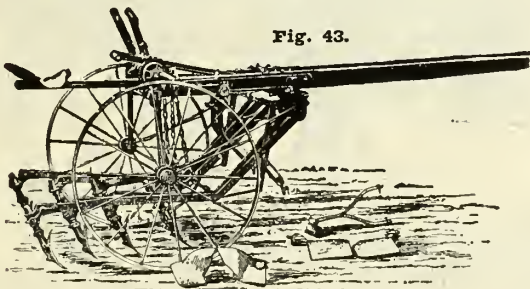
This cultivator is made in a thoroughly workmanlike manner, nothing but steel and malleable iron castings being used in its construction with, of course, the one exception—the tongue, this being made of Georgia Yellow Pine.

As will be seen, it embraces all of the movements usually found on an up-to-date cultivator, at the same time has no complicated parts to get out of order. This cultivator can be narrowed to 32½ inches between wheels and expanded to 46 inches. The **Axles** and **Standards** are made in one piece of 1¼-inch round steel, high carbon, to insure stiffness and strength.

6-Shovel Pin Hoe.....	\$30.50
8-Shovel Pin Hoe.....	31.75
6-Shovel Spring Hoe.....	33.25
8-Shovel Spring Hoe.....	35.75

Mar Del Riding Cultivator

Fig. 43.



While this cultivator has been on the market for a number of years, it still retains its popularity. It is light in weight and neat in design, but at the same time strongly constructed. All parts are malleable iron and steel. Standards are adjustable to depth of angle of cut.

8-Pin Hoe, with independent teeth and fenders; no lever or hillers.....	\$25.00
Same as above, with lever and hillers.....	26.00

Gritco Stalk Cutter

7-blade, single row.....\$28.00
 9-blade, single row..... 30.00
 Practically an all-steel frame machine, making it neat of construction and giving it ample strength. The wheels are all steel, with removable box and 2-inch tire. The lever is within easy reach of the operator and is connected with pressure spring



which connects with the cylinder or knife heads, and with which can be produced an even pressure at all times on the knives.

No. 11.
 Steel Frame.
 Price, \$22.50.

Gritco Corn Harvester



No. 1.
 Wood Frame.
 Price, \$20.00.

Automatic Knife Guard gives absolute protection to operators. Simple, thoroughly effective, never fails to work **instantly**. Mechanism extremely simple. Front lever is connected with a plate of steel under the wing which projects beyond all parts of knife. While at work operator holds down with his foot the lever which draws the guard in.

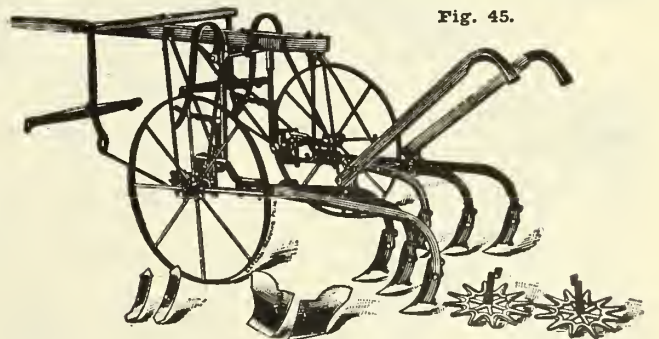
The Wings are independent of each other; quickly raised to pass obstructions. Knives are best grade tempered steel, making an upward shear cut.

The Frame is 28 inches wide; extreme width at widest point of knives, 63 inches; adapting machine to widest or narrowest rows. Frame can be raised or lowered at both front and rear.

Safety Shafts turn freely in any direction and provided with a stop which prevents horse from turning further than necessary. Seats are independent, each one being quickly raised or lowered.

Keystone Balance Frame Cultivator

Fig. 45.



This cultivator is furnished with six and eight shovels, the center attachment being used with the six-shovel cultivator. With each cultivator we send two 1¼-inch bull-tongues, one pair of hilling shovels, or furrowing out shovels, as may be desired. We furnish it in Pin or Spring Hoe.

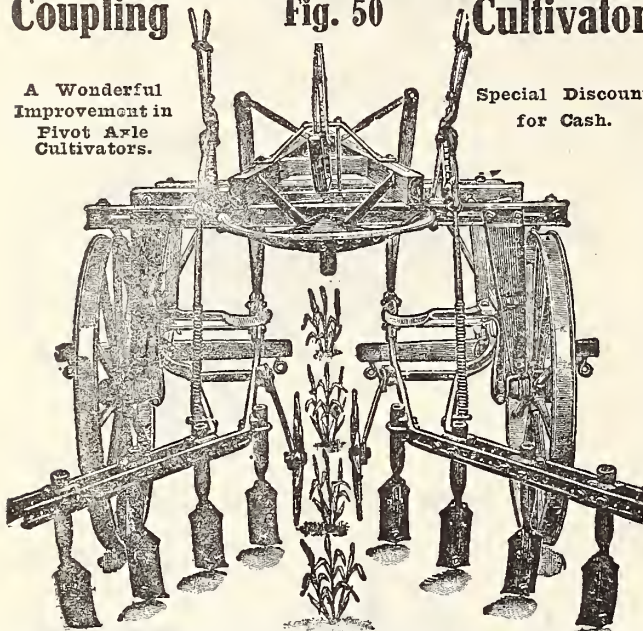
6-Shovel Pin Hoe.....	\$21.00
8-Shovel Pin Hoe.....	22.00
6-Shovel Spring Hoe.....	23.75
8-Shovel Spring Hoe.....	25.75

Hench's 20th Century Steel Ball Coupling Cultivator

Fig. 50

A Wonderful Improvement in Pivot Axle Cultivators.

Special Discount for Cash.



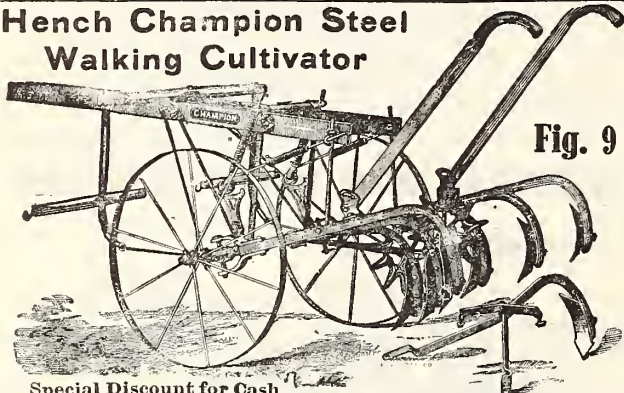
The shovel gangs are coupled in front by steel balls, 1 1/2 inches diameter, and malleable sockets having larger running surface and no lost motion. This prevents lateral movement so common in this style machine; if shovel strikes bunch of grass, will not glance around, but cut it out. By slacking four nuts on the wheel standards they can be moved in or out on the axle, narrowing the wheels from 46 inches, the widest point, to 34 inches, the narrowest point, between the wheels.

Wheels 32 inches high, made of steel, with 2-inch tread, malleable hubs, removable boxes, which can be replaced when worn out. Weight, about 375 pounds.

6-Shovel Pin Hoe....	\$31.00	6-Shovel Spring Hoe....	\$34.25
8-Shovel Pin Hoe....	32.25	8-Shovel Spring Hoe....	36.75
2-Center Beams and Shovels Pin Hoe.....	2.75		
2-Center Beams and Shovels Spring Hoe.....	4.00		
2-Standards and Shovels to make 10-Shovel Pin Hoe....	2.00		
4-Disc Cultivator with 11-inch discs.....	31.00		
6-Disc Cultivator with 11-inch discs.....	32.25		

Hench Champion Steel Walking Cultivator

Fig. 9



Special Discount for Cash.

With Shovel Beam Hoisted and Held Up by Springs Alone.

In the cut is seen six-shovel Corn and Fallow Cultivator, with seventh or middle shovel.

Perfect spring pressure and hoisting device for regulating the shovel beams or drag bars for deep or shallow cultivating. The high arch permits its use in high corn, and, being firmly braaced, gives it great strength.

4-Shovel Pin Hoe....	\$18.50	4-Shovel Spring Hoe....	\$21.25
6-Shovel Pin Hoe....	18.50	6-Shovel Spring Hoe....	22.50
8-Shovel Pin Hoe....	20.75	8-Shovel Spring Hoe....	25.75
7th or Middle Beam.	2.00	7th or Middle Shovel....	2.50

In addition to the regular shovels, 2 bull tongues and 2 hilling shovels accompany each machine.

BALANCE FRAME WALKING CULTIVATOR.

No. 66. WITH PARALLEL BEAMS.

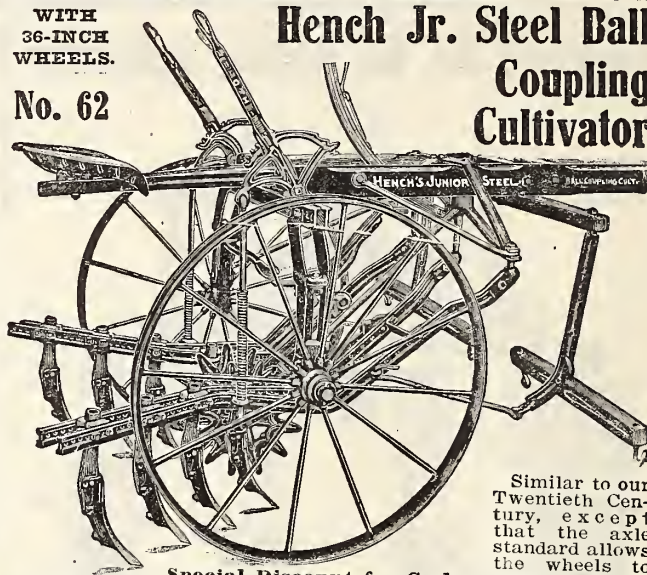
6-Shovel Pin Hoe....	\$20.75	6-Shovel Spring Hoe....	\$23.75
8-Shovel Pin Hoe....	21.75	8-Shovel Spring Hoe....	25.75
2 Standards and Shovels to make 10-Shovel Pin Hoe....	2.00		

Special Discount for Cash.

WITH 36-INCH WHEELS.

No. 62

Hench Jr. Steel Ball Coupling Cultivator



Similar to our Twentieth Century, except that the axle standard allows the wheels to pass over the

Special Discount for Cash.

axle, and is recommended where extremely narrow rows are not cultivated. It is made with three, four or five shovels on each gang, making it six, eight or ten-shovel Cultivator for rowed crops, with a pair of 1 1/2-inch bull tongues for first cultivation and one pair of hilling shovels for last cultivation of rowed crops. It can be rigged with two middle beams and shovels, making a 12-shovel Cultivator for fallow cultivation. It also can be furnished with Double Row Corn Planter Attachment, as shown below in Fig. 56.

6-Shovel Pin Hoe....	\$30.50	6-Shovel Spring Hoe....	\$33.25
8-Shovel Pin Hoe....	31.75	8-Shovel Spring Hoe....	35.75
2-Center Beams and Shovels Pin Hoe.....	2.75		
2-Center Beams and Shovels Spring Hoe.....	4.00		
4-Standards and Shovels to make 10-Shovel Pin Hoe....	2.00		
4-Disc Cultivator with 11-inch discs.....	30.00		
6-Disc Cultivator with 11-inch discs.....	32.00		

20th Century Corn Planter Attachment

Fig. 56

Special Discount for Cash.

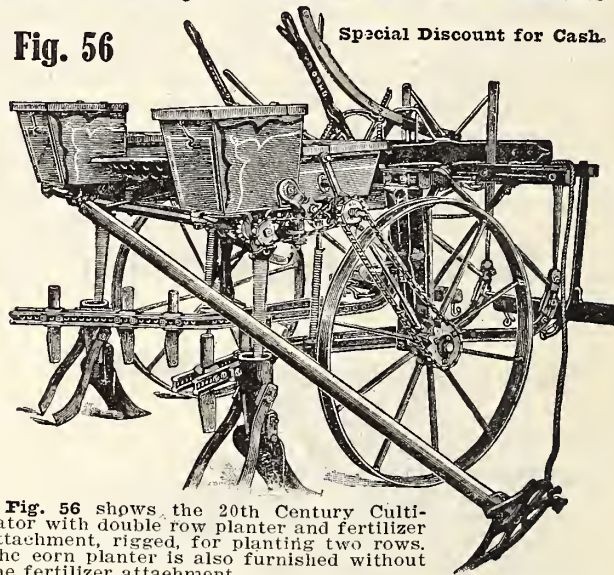


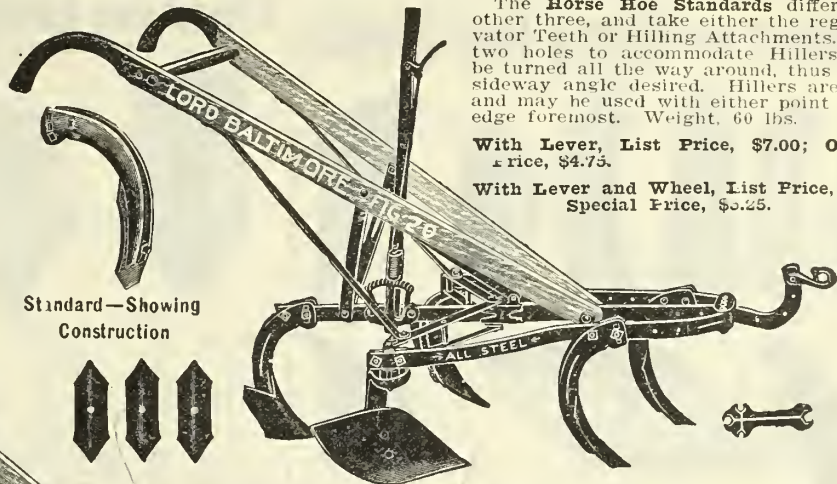
Fig. 56 shows the 20th Century Cultivator with double row planter and fertilizer attachment, rigged, for planting two rows. The corn planter is also furnished without the fertilizer attachment.

All Cultivators are made so that the planter can be attached at any time. It will plant accurately almost any depth required, one grain 11, 13 or 15 inches, or two grains 22, 26 or 30 inches apart, and additional dies can be furnished at a small cost for sowing ensilage corn, or for peas, beans and other seeds. It can be set to plant rows from 2 ft. 10 in. to 4 ft. apart. The cost for a 2-row planter attachment is but a trifle more than a single row. Price of Planter Attachment: Double-Row Planter Attachment, plain, \$16.75. Double-Row Planter Attachment, with Fertilizer Attachment, \$21.00.

For prices on Cultivator with Corn Planter Attachments add prices of Attachments to prices of Cultivators. Planter Attachments can be applied to Hench's 20th Century, Junior, Old Style and Improved Cultivators, but when ordering it is necessary to state for which Cultivator it is intended.

Lord Baltimore Cultivator and Horse Hoe—FIG. 20

Equipped with our latest improved **Roller of Pressed Steel Standards, Lever Expander and Outside Handle Braces.** Extra high Steel Frame. Standards are interchangeable, there being no "right" nor "left" as in the solid standards in general use.



The **Horse Hoe Standards** differ from the other three, and take either the regular Cultivator Teeth or Hilling Attachments. They have two holes to accommodate Hillers, and may be turned all the way around, thus giving any sideway angle desired. Hillers are reversible and may be used with either point or rounded edge foremost. Weight, 60 lbs.

With Lever, List Price, \$7.00; Our Special Price, \$4.75.

With Lever and Wheel, List Price, \$7.70; Our Special Price, \$5.25.

Standard—Showing Construction



FIG. 21

Clevis Hooks for 5-tooth Cultivators. List, 20c. Our Special Price, 15c.



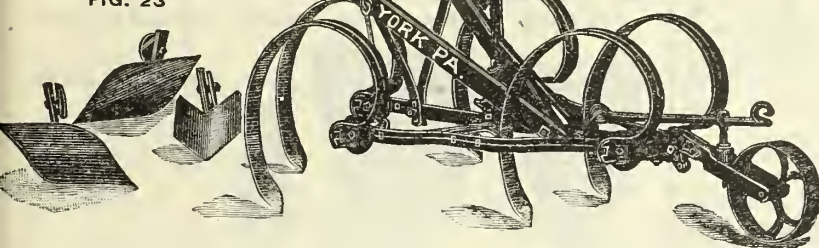
Lord Baltimore Cultivator and Horse Hoe

FIG. 21

The same tool as shown in Fig. 20, with the addition of the **Lever Wheel Attachment and Rear Wheel Depth Regulator.** Weight, 80 lbs. List Price, \$9.50. Our Special Price, \$6.50.

Trucking Cultivator

FIG. 23



Our five and seven-tooth Expanding Cultivators, fitted with Spring Teeth, Wheel and Lever, are especially adapted for cultivating in orchards, potatoes, beans, peas or any grain planted in single rows. In addition to the spring teeth, there is a special Horse Hoe attachment, and together with center sweep you have a harrow and cultivator combined, which makes a complete tool and will give better results than any tool now on the market. It takes the place of two implements. It is operated by a lever for wide or narrow rows, and can be changed almost instantly and while in operation. Weight, 79 lbs.

5-Tooth Cultivator with Wheel and Lever. List Price, \$9.00. Our Special Price, \$5.50
7-Tooth Cultivator with Wheel and Lever. List Price, \$11.00. Our Special Price, \$6.50
Horse Hoe Attachments, complete. List Price, \$2.00. Our Special Price, \$1.25

The teeth have four positions—First, position shown in cut, in which case can be used for working very close to small plants. Thoroughly pulverizes, throws no dirt on plants. Second, position as a straight-tooth harrow. Third position, teeth can be arranged as a smoothing harrow, with sharp points down, in order to cut and level surface. Fourth position, teeth can be set with sheared end down, being less liable to injure young plants.

Can be contracted to 9 inches and expanded to 21 inches. Weight, 51 pounds.

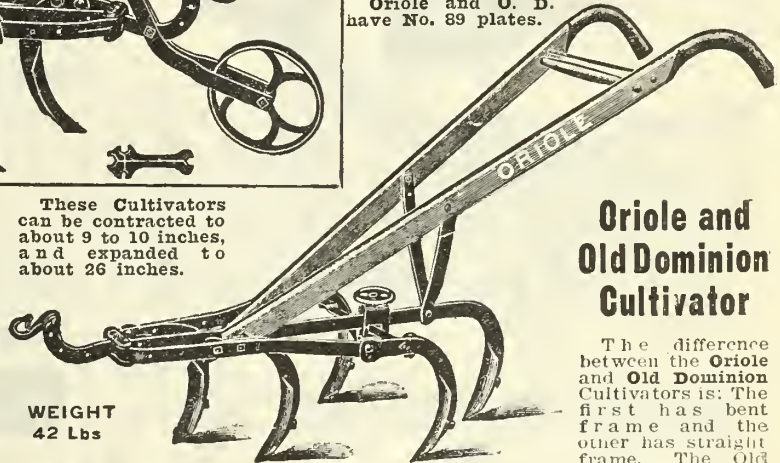
These Cultivators can be contracted to about 9 to 10 inches, and expanded to about 26 inches.

WEIGHT
42 Lbs

LEVERS FOR LORD BALTIMORE, OLD DOMINION AND ORIOLE CULTIVATORS. LIST PRICE, 70c.; OUR SPECIAL PRICE, 50c.

Oriole and O. D. have No. 89 plates.

Oriole and Old Dominion Cultivator



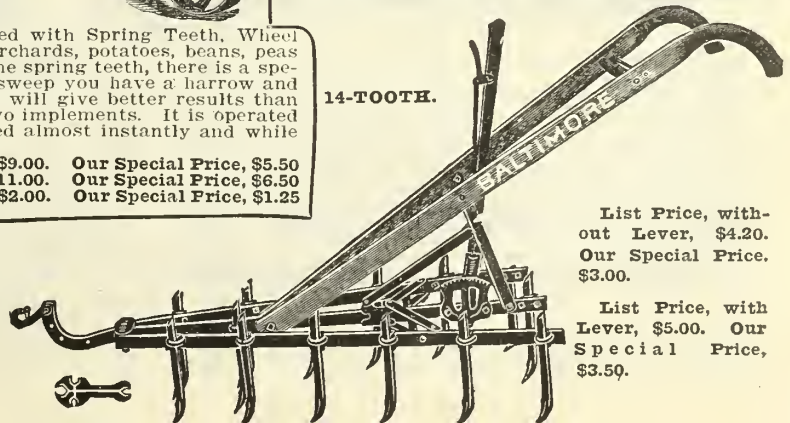
The difference between the Oriole and Old Dominion Cultivators is: The first has bent frame and the other has straight frame. The Old Dominion Cultivator is sold principally in Virginia and the South, and wherever sold it becomes a favorite. Both have No. 89 plates.

	List Price	Special Price
Cultivator, plain.....	\$3.50	\$2.50
Cultivator with Lever.....	4.10	3.00
Horse Hoe Attachments, complete, per set of three pieces...	2.00	1.25
Wheels for Cultivators, each....	.70	.50

Fig. 24—7-Tooth Cultivator with Channel Frame and Lever..... 6.00 4.25
 Same with Lever and Wheel.... 6.70 4.75

BALTIMORE COMBINED HARROW AND CULTIVATOR

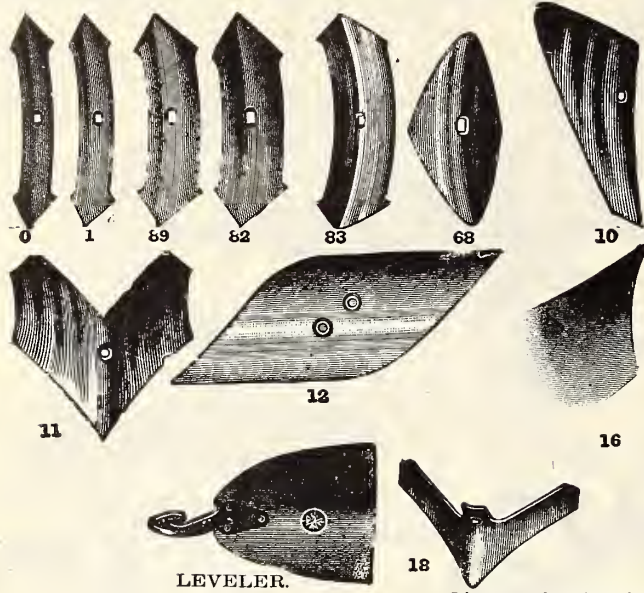
14-TOOTH.



List Price, without Lever, \$4.20.
 Our Special Price, \$3.00.

List Price, with Lever, \$5.00. Our Special Price, \$3.50.

Cultivator and Horse Hoe Steels



	List Price.	Our Special Price.
No. 0—1 1/4-in. Diamond Point Steel..	\$8.00 per 100	\$.06 1/2 ea.
No. 1—2-in. Diamond Point Steel..	9.20 per 100	.07 1/2 ea.
No. 89—2 1/2-in. Diamond Point Steel..	9.50 per 100	.08 ea.
No. 82—3-in. Diamond Point Steel..	10.00 per 100	.09 ea.
No. 83—3 1/2-in. Diamond Point Steel..	11.50 per 100	.10 ea.
No. 84—4-in. Diamond Point Steel..	12.00 per 100	.08 ea.
No. 67—Oval or Light Jersey Pt. Steel..	12.50 per 100	.09 ea.
No. 68—Oval or Jersey Point Steel..	12.50 per 100	.15 ea.
No. 10—Turn Shovel, right or left....	.22 each	.15 ea.
No. 16—Turn Shovel.....	.20 each	.15 ea.
No. 11—6-in. Sweep, about 7-in. across..	.21 each	.20 ea.
No. 11—8-in. Sweep, about 11-in. across	.26 each	
Horse Hoe, Steel only, without shank, R. & L.....	.26 each	.20 ea.

	List Price.	Our Special Price.
Horse Hoe, Steel, with Shank or Standard, per pair	\$1.80	\$1.15
Horse Hoe Attachments complete, per set of three pieces.....	2.00	1.25
No. 18—8-in. Sweep, each.....	.29	.20
No. 18—10-in. Sweep, each.....	.31	.22
No. 18—12-in. Sweep, each.....	.34	.25
No. 18—15-in. Sweep, each.....	.42	.30
Wheels for Cultivators, each.....	.70	.50
Levelers for Cultivators, each.....	1.50	1.00
Cultivator Plate and Frame Bolts, per 100.....	2.10	ea. .03
Wheel Cultivator Clamps, each.....	.36	.25
Set Screw Cultivator Clamps, each.....	.30	.22
Teeth for Baltimore Combined Harrow and Cultivator, Diamond Shaped Steel, each.....	.10	.06
Cultivator Handles, finished with rod and round, per pair.....	1.20	.75

All of the above goods are of best steel and highly polished.

Steels for Hench and Drumgold's Riding Cultivators and Champion Walking Cultivators

	List Price.	Our Special Price.
1 1/4-inch Plain Shovel, O. S., without revolving backs.....	\$.20	\$.15
2 1/2-inch Plain Shovel, O. S., without revolving backs.....	.28	.20
2 1/2-inch Plain Shovel, N. S., with revolving backs.....	.35	.25
3-in. Plain Shovel, O. S., without revolving backs.....	.30	.22
3-in. Plain Shovel, N. S., with revolving backs.....	.40	.28
3 1/2-inch Plain Shovel, O. S., without revolving backs.....	.35	.25
3 1/2-in. Plain Shovel, N. S., with revolving backs.....	.45	.30
Hilling Shovels, O. S. and N. S., right and left hand, each.....	.90	.60

Steels for Iron Age Riding Cultivators

	List Price.	Our Special Price.
No. 90—1 1/4 inches wide, each.....	\$.16	\$.12
No. 91—2 1/2 inches wide, each.....	.18	.15
Fig. 117—Plows, R. & L., per pair.....	1.20	.75

STEELS FOR RIDING CULTIVATORS

For Round and Open Foot Shanks For Brown, Brown-Manly, Buckeye and Deere Cultivators.



The steel shown with No. 5 back is 5x11 straight top. The steel shown with No. 2 back is 5x11 flared top. This cut shows 3x10 reversible steel.

In ordering 5x11-inch Steels in less than sets of four, always specify whether wanted with straight top or flared top, and right or left hand.

	List Price.	Our Special Price.
1 1/4 x10 inches, Reversible.....	\$.40	\$.25
2 x10 inches, Reversible.....	.50	.30
2 1/2 x10 inches, Reversible.....	.55	.35
3 x10 inches, Reversible.....	.60	.40
3 1/2 x10 inches, Reversible.....	.65	.45
5 x10 inches.....	.75	.50
1 1/2 x10 inches, Bull Tongues.....	.50	.35
2 x10 inches, Bull Tongues.....	.55	.40
2 1/2 x10 inches, Bull Tongues.....	.60	.45
3 x10 inches, Bull Tongues.....	.65	.50

WITH BACKS.

	List Price.	Our Special Price.
1 1/4 x10 inches, Reversible.....	\$.20	\$.15
2 x10 inches, Reversible.....	.24	.18
2 1/2 x10 inches, Reversible.....	.28	.20
3 x10 inches, Reversible.....	.30	.22
3 1/2 x10 inches, Reversible.....	.32	.25
5 x11 inches.....	.45	.35

WITHOUT BACKS, WITH ONE BOLT HOLE.

	List Price.	Our Special Price.
1 1/4 x10 inches, Reversible.....	\$.20	\$.15
2 x10 inches, Reversible.....	.24	.18
2 1/2 x10 inches, Reversible.....	.28	.20
3 x10 inches, Reversible.....	.30	.22
3 1/2 x10 inches, Reversible.....	.32	.25
5 x11 inches.....	.45	.35

BLANKS NOT BORED.

	List Price.	Our Special Price.
5 x11 inches.....	\$.40	\$.30
1 1/2 x10 inches, Bull Tongues.....	.30	.25
2 x10 inches, Bull Tongues.....	.30	.25
2 1/2 x10 inches, Bull Tongues.....	.30	.25
3 x10 inches, Bull Tongues.....	.30	.25

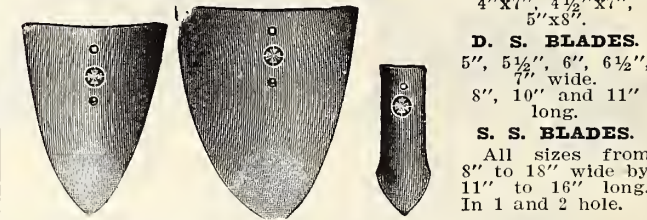
Spike Harrow Teeth



List Price, per pound.....8c. Our Special Price, per pound...5c.

STEELS SIZES SHOVEL PLOW STEELS.

For Single and Double Shovel Plows. DRAG BLADES. 4"x7", 4 1/2"x7", 5"x8".



D. S. BLADES. 5", 5 1/2", 6", 6 1/2", 7" wide. 8", 10" and 11" long.

S. S. BLADES. All sizes from 8" to 18" wide by 11" to 16" long. In 1 and 2 hole.

CALF TONGUES—1 1/2", 1 3/4", 2" wide by 8" long.	
BULL TONGUES—1 3/4", 2" and 3" wide by 11" long.	
Above can be furnished in 1 or 2 hole.	
Full and complete line of polished steels for Single and Double Shovel Plows made in both one and two-hole styles. Genuine Malta Double or Single Shovel Plow Steels per pound.....	\$.08 1/2
Farmers' Favorite Triple Shovel Plow Steels, per pound.....	\$.08 1/2
Farmers' Favorite Single and Double Shovel Plow Steels, per pound.....	.07 1/2
Bolts for Shovel Plow Blades, each.....	.05
Four Shovel Plow Steels, 3-in., each.....	.07
Four Shovel Plow Steels, 3 1/2-in., each.....	.08
Shovel Plow Fender.....	.35

SHOVEL PLOW HANDLES

Finished, for Single or Double Shovel Plows, complete with round and rod, per set.....	\$.75
Finished without round and rod, per pair.....	.60
Finished and bored, right and left, each.....	.30

SHOVEL PLOWS

Farmers' Favorite, single-shovel Plow.....\$2.25
Farmers' Favorite, double shovel Plow..... 2.50

The cost of these goods is not so much in the finish as in the construction and material, these being the principal requisites in an implement.

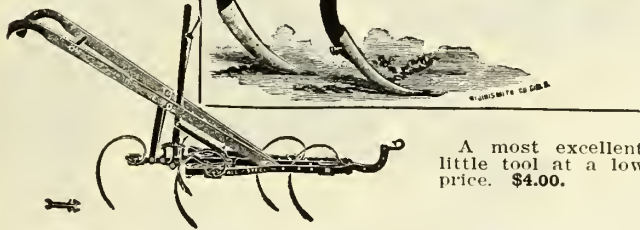
Triple-shovel Plows, regular.....\$3.00
Extra Heavy three-shovel Plows..... 3.25

For shovel plow steels see page 112.

The Original and Genuine "Malta" Iron Beam Single and Double Shovel Plows

Has 1 1/4 x 3/4-Inch Beam.
PRICE.
Double Shovel Plow...\$3.25
Single Shovel Plow.... 2.75

SEVEN-TOOTH SPRING TOOTH CULTIVATOR WITH LEVER.



A most excellent little tool at a low price. \$4.00.

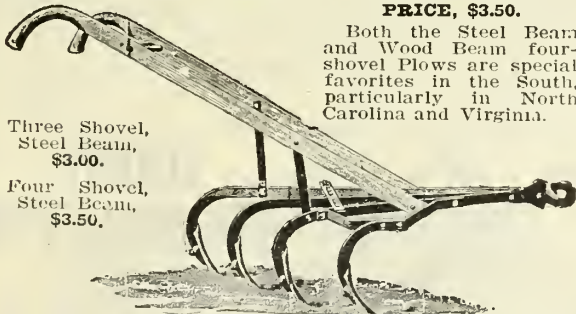
Gritco Steel Beam Four Shovel Plows

PRICE, \$3.50.

Both the Steel Beam and Wood Beam four-shovel Plows are special favorites in the South, particularly in North Carolina and Virginia.

Three Shovel, Steel Beam, \$3.00.

Four Shovel, Steel Beam, \$3.50.



Gritco Wood Beam Four Shovel Plow

PRICE, \$3.00.

Both Wood and Steel Beam are furnished with reversible plates.

Four Nut Shovel Plow Spreader Bolts

For Beams and Handles, each.....25c.
Shovel Plow Clevis, 20c.

Gritco Wood Beam Diverse Cultivators

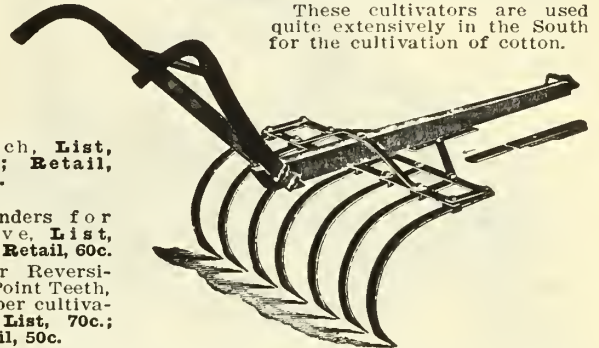
WITHOUT LEVERS

These cultivators are used quite extensively in the South for the cultivation of cotton.

Each, List, \$6.00; Retail, \$4.00.

Fenders for above, List, 90c.; Retail, 60c.

For Reversible Point Teeth, add per cultivator, List, 70c.; Retail, 50c.



Gritco Steel Beam Diverse Cultivators

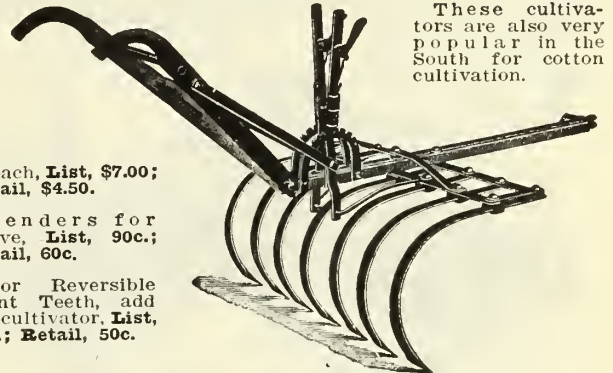
WITH LEVERS

These cultivators are also very popular in the South for cotton cultivation.

Each, List, \$7.00; Retail, \$4.50.

Fenders for above, List, 90c.; Retail, 60c.

For Reversible Point Teeth, add per cultivator, List, 70c.; Retail, 50c.



STEEL BEAM MIDDLE BURSTER

SHARES FOR MIDDLE BURSTER

Cuts	List Price.	Our Special Price.
8-in.	\$1.30	\$.80
10-in.	1.60	1.00
12-in.	1.90	1.20
14-in.	2.20	1.40
16-in.	2.70	1.75

The Beam has a high throat, and wings are shaped especially for black, waxy lands. Wings and points are of high carbon steel. Points have reinforced nose. A strong, serviceable tool for two, four or six horses.

We can furnish them as follows:

Cuts	List Price.	Our Special Price.
Cuts 8 inches; weight, 77 pounds.....	\$11.00	\$7.00
Cuts 10 inches; weight, 82 pounds.....	11.50	7.50
Cuts 12 inches; weight, 87 pounds.....	13.00	8.25
Cuts 14 inches; weight, 93 pounds.....	14.00	8.75
Cuts 16 inches; weight, 98 pounds.....	15.30	9.50

Rudders, each, List, 75c.; Our Special Price, 45c.

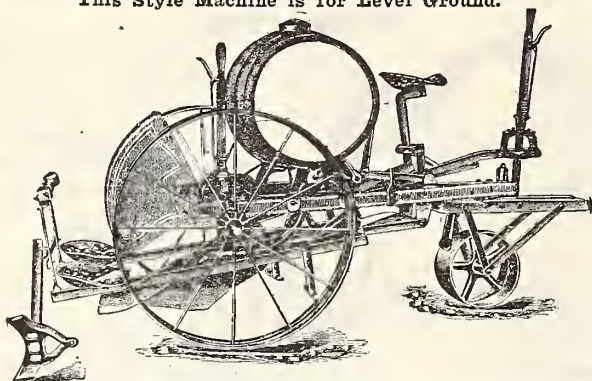


THE IRON AGE CULTIVATORS

	Price.
Iron Age Cultivator, plain, with Clamp Expander.....	\$3.40
Iron Age Cultivator, with Lever.....	4.15
Iron Age Horse Hoe and Cultivator, plain.....	4.75
Iron Age Horse Hoe and Cultivator, with Wheel.....	5.25
Iron Age Horse Hoe and Cultivator, with Lever and Wheel.....	6.00

MODEL TRANSPLANTER

This Style Machine is for Level Ground.



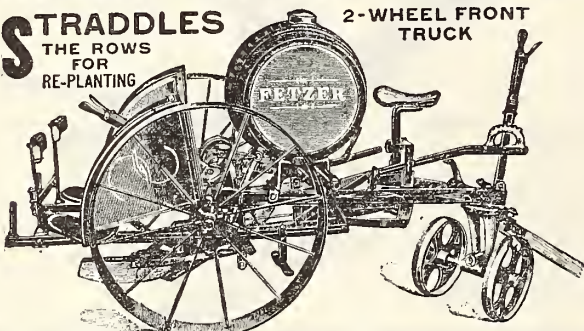
Used especially for transplanting tobacco, cabbage, strawberries, ginseng, horseradish, nursery stock, hops, sweet potatoes, etc.

This transplanter does the work better than can be done by hand, and a greater proportion of the plants live and thrive because it waters the plants at the roots when the plants are set. **List Price, \$67.20; Our Special Price, \$55.00.**

RIDGE TRANSPLANTER

STRADDLES
THE ROWS
FOR
RE-PLANTING

2-WHEEL FRONT
TRUCK



This Style Transplanter is Especially Adapted for Hilly Ground

It is constructed on practical lines, and does the work much better than can be done by hand.

List Price, \$24.00; Our Special Price, \$70.00.

**MASTER'S RAPID
PLANT SETTER**

All kinds of Plants, such as Cabbage, Tobacco, Tomatoes, Cauliflower, Strawberries, Sweet Potatoes, Sugar Beets, Etc. The only Hand Mechanical Plant Setter on the market; is built on scientific principles throughout. Its conical jaws are made of heavy sheet steel and the main body or water reservoir and plant tube of heavy tinned plate. The water valve is of brass with rubber packing. The valve rod and trip spring are of steel wire; thumb button and other fittings are also of brass. The machine is well put together with rivets and solder and should last for years.

Price, each, \$3.75.

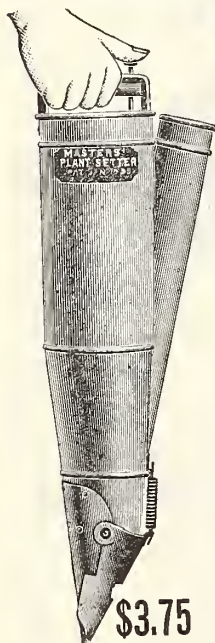
TESTIMONIALS

The Masters' Planter I purchased has worked very satisfactorily, and have obtained better results from the plants set out by your machine than from those planted by hand with season.

Fork, Md. F. E. Wright.

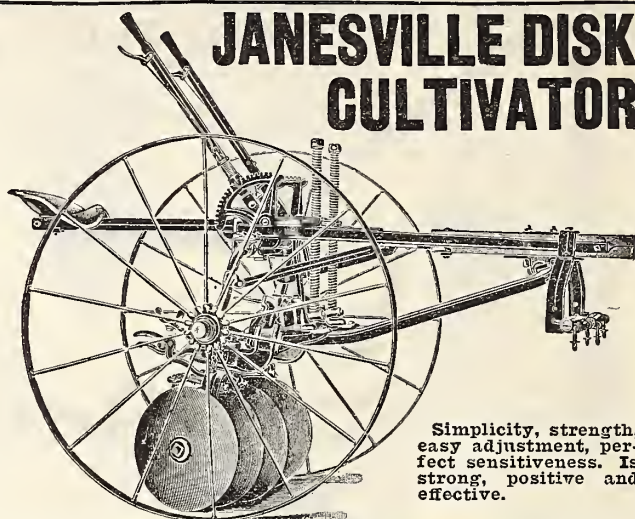
I bought one of Masters' Rapid Plant Setters and used it to great advantage that spring. This last spring I bought two more Setters and find them satisfactory in every respect, saving labor, saving plants, with far better results than the best hand work. I would not do without the Setters for many times their cost.

Laurel, Del. Harvey W. Hastings.



\$3.75

**JANESVILLE DISK
CULTIVATOR**



Simplicity, strength, easy adjustment, perfect sensitiveness. Is strong, positive and effective.

Steel wheels; removable dustproof box; disk gangs heavy construction; chilled wearing boxes in the yoke; light draft; angle of the disks and the tilt of the frame accomplished by levers. The one machine that is imitated by other Disk Cultivator manufacturers.

A hand lever, operated without leaving the seat, sets the gangs at any desired cutting angle and enables the driver to throw as much dirt to the plants as he desires.

You can run it up close to the young plant without cutting off or wounding the lateral roots.

The Janesville cuts and buries trash, vines, stalks, and kills the weeds.

- | | |
|---|---------|
| Price, Straight Pole..... | \$35.00 |
| Price with Pivot Axle..... | 35.00 |
| Levelers, per pair..... | 2.00 |
| Four-shovel Attachment Pin Hoe..... | 7.50 |
| Six-shovel Attachment Pin Hoe..... | 8.50 |
| Four-shovel Attachment Spring Trip..... | 9.50 |
| Six-shovel Attachment Spring Trip..... | 11.00 |
| 16-in. disks and thimble for attachment to gangs, pair... | 4.00 |

**Daisy Cultivator
On Wheels**



Fig. 6.

Set
Handles
and
Braces
to make
Daisy
on Wheels,
\$1.00.

This style cultivator is precisely the same as either half of the regular Spring Tooth Wheel Harrow, with the addition of handles. We can furnish anyone having the regular Harrow a set of handles and braces, and they can be attached to either half. The front wheel is pivoted, and will draw with ease after the horse. The wheels guide it and cause it to run steady. For turning at the ends the teeth can be raised by the use of the lever, and is very easy to operate.

RETAIL PRICE.

- | | | | |
|--------------|--------|---------------|---------|
| 7-Tooth..... | \$9.75 | 10-Tooth..... | \$12.50 |
| 8-Tooth..... | 11.25 | 11-Tooth..... | 13.25 |
| 9-Tooth..... | 12.00 | | |

**DAISY
CULTIVATOR**

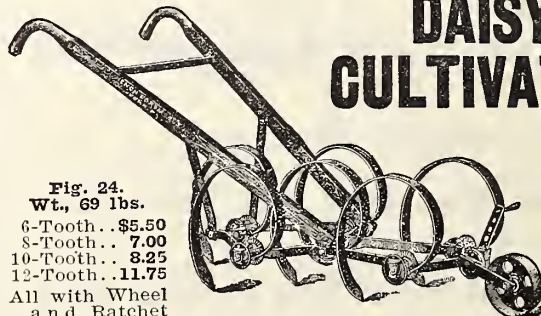
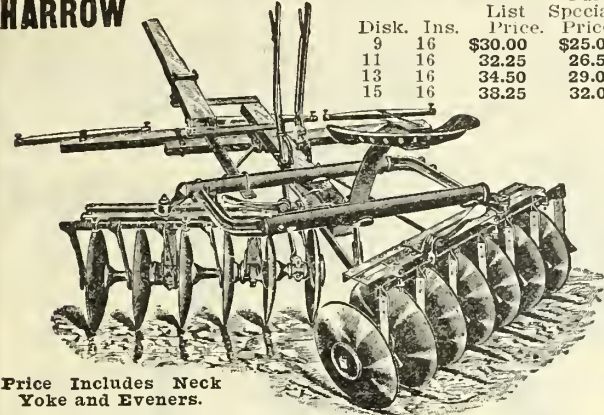


Fig. 24.
Wt., 69 lbs.

- | | |
|------------|--------|
| 6-Tooth.. | \$5.50 |
| 8-Tooth.. | 7.00 |
| 10-Tooth.. | 8.25 |
| 12-Tooth.. | 11.75 |
- All with Wheel and Ratchet Tooth Holder.

BELL'S CENTER-CUT OVERLAPPING DISK HARROW



Disk.	Ins.	List Price.	Our Special Price.
9	16	\$30.00	\$25.00
11	16	32.25	26.50
13	16	34.50	29.00
15	16	38.25	32.00

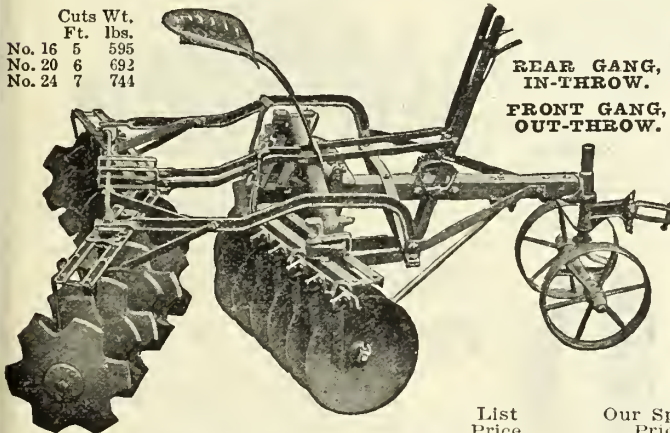
Price Includes Neck Yoke and Eveners.

This Harrow cultivates the ridge and pulverizes the ground from outside to outside, leaving a smooth surface behind it. There will be no row of weeds between the grain. This Harrow is made of steel angles and platform and high-test steel disks. Harrows will always be furnished with Round Disks unless specially ordered. Cut disks furnished at small extra cost.

FORE-TRUCK FOR ABOVE HARROW add: List Price, \$6.00. Our Special Price, \$4.75.

DRUID TWO-WAY HARROW

No.	Cuts	Wt.	Ft.	Lbs.
No. 16	5	595		
No. 20	6	692		
No. 24	7	744		



REAR GANG, IN-THROW.
FRONT GANG, OUT-THROW.

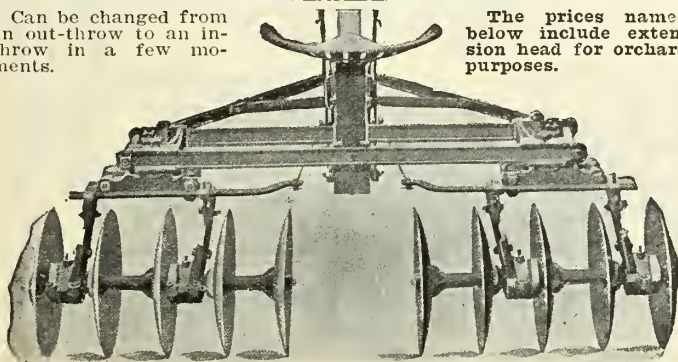
No.	List Price.	Our Special Price.
No. 16—16, 16-inch disks.....	\$45.00	\$40.25
No. 20—20, 16-inch disks.....	49.00	44.25
No. 24—24, 16-inch disks.....	54.25	49.00

This Harrow can be furnished with front Disks regular and rear Disks cut away, or both front and rear Disks cut away. The prices are the same.

A Harrow with two pairs of gangs will thoroughly pulverize soil and level ground in one operation. Front set of gangs throws soil outward from each side of center; rear set will throw in opposite direction, and, being located to follow between furrow made by front Disks, throws soil inward, and at the same time pulverizes it.

Can be changed from an out-throw to an in-throw in a few moments.

The prices named below include extension head for orchard purposes.

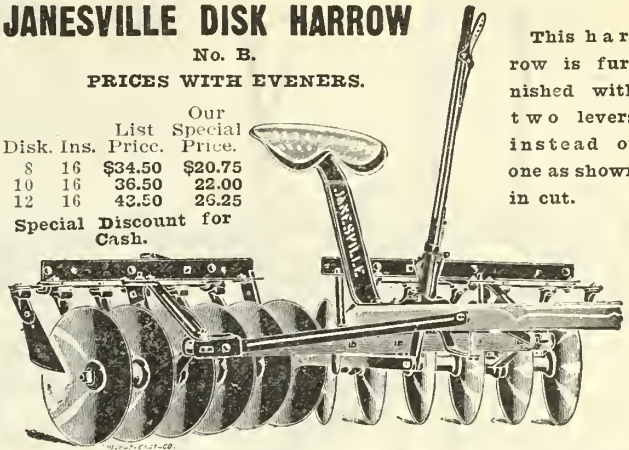


JANESVILLE DISK HARROW

No. B.
PRICES WITH EVENERS.

Disk.	Ins.	List Price.	Our Special Price.
8	16	\$34.50	\$20.75
10	16	36.50	22.00
12	16	42.50	26.25

Special Discount for Cash.

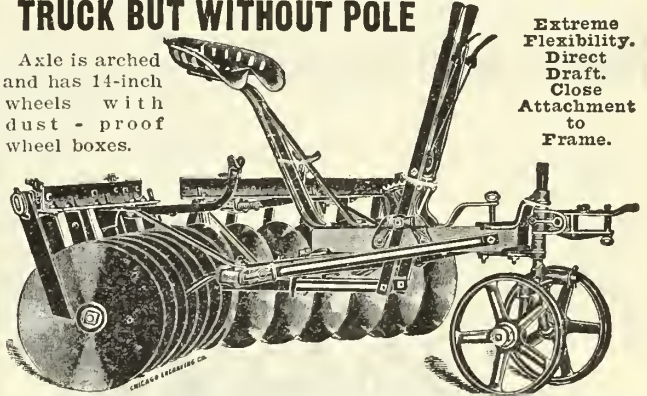


This harrow is furnished with two levers instead of one as shown in cut.

An angle steel bar runs full length of gang, and is fastened to top of standards. This takes place of weight boxes. Cleaner bar and cleaners are attached to angle steel bar.

JANESVILLE DISK HARROW WITH FORE-TRUCK BUT WITHOUT POLE

Axle is arched and has 14-inch wheels with dust-proof wheel boxes.



Extreme Flexibility. Direct Draft. Close Attachment to Frame.

The Janesville Harrow Truck is a new device for removing neck weight and keeping pole from constantly slashing horses. Made entirely of malleable iron and steel.

Disk.	Inches.	List Price.	Our Special Price.
8	16	\$39.50	\$23.75
10	16	41.50	25.00
12	16	48.50	29.25

JANESVILLE DOUBLE DISK ATTACHMENT FOR ALL JANESVILLE DISK HARROWS.

	List Price.	Our Special Price.
8-Disk.....	\$30.00	\$18.00
10-Disk.....	33.00	20.00
12-Disk.....	36.00	21.75

FOR ANY JANESVILLE DISK HARROW.

	List Price.	Our Special Price.
For 18-inch Disk on 8 and 10 Disk Harrows, add.....	\$4.50	\$2.75
For 18-inch Disk on 12 Disk Harrows, add.....	5.50	3.25
For 20-inch Disk on 8 and 10 Disk Harrows, add.....	3.00	5.00
For 20-in. Disk on 12 Disk Harrows, add.....	10.00	6.00
Fore-Truck for Janesville Harrow.....	8.50	5.10

Extra Disks for Bell's Center-cut, Janesville, Oriole, and Walter A. Wood Disk Harrows. 16-inch, \$1.25; 18-inch, \$1.50; 20-inch, \$1.75.

GRITCO REVERSIBLE DISK HARROW

Draft heads are adjustable on main frame. Gangs are adjustable up or down at either end to cut deep or shallow as desired.

Disk.	Ins.	List Price.	Our Special Price.	Disk.	Ins.	List Price.	Our Special Price.
6	16	\$27.00	\$24.50	10	16	\$31.35	\$28.25
8	16	29.35	26.50	10	18	34.00	30.75
8	18	31.35	28.25	10	20	36.75	33.00
8	20	33.35	30.00				

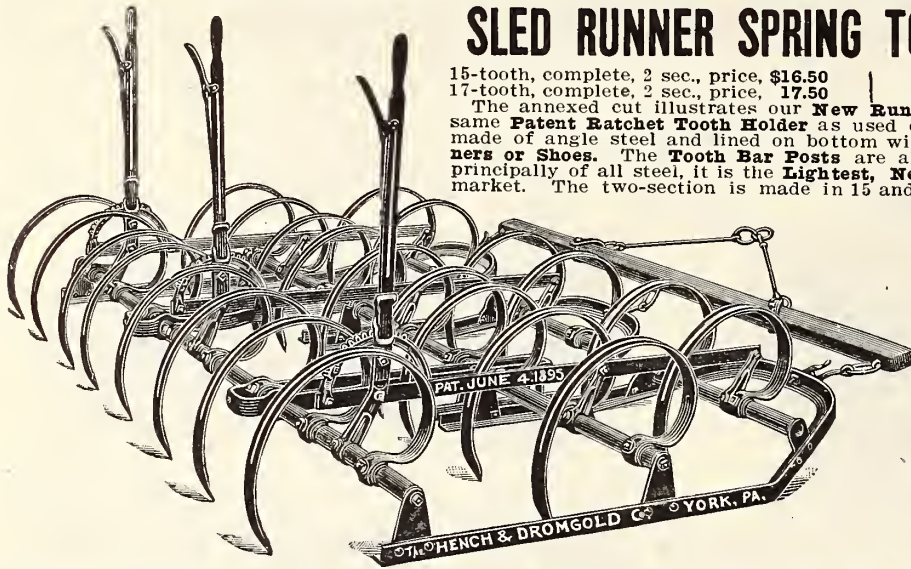
If Scrapers are wanted, add List Price, \$1.50; Our Special Price, \$1.40.

If Extension Head is not wanted, deduct List Price, \$4.50; Our Special Price, \$4.00.

SLED RUNNER SPRING TOOTH LEVER HARROW

15-tooth, complete, 2 sec., price, \$16.50
 17-tooth, complete, 2 sec., price, 17.50
 23-tooth, complete, 3 sec., price, \$27.00
 25-tooth, complete, 3 sec., price, 26.50

The annexed cut illustrates our **New Runner Spring-Tooth Harrow**, having the same **Patent Ratchet Tooth Holder** as used on our **Wheel Harrow**. The frame is made of angle steel and lined on bottom with 1½-inch by ¼-inch **Hard Steel Runners or Shoes**. The **Tooth Bar Posts** are also of **Steel**. The construction being principally of all steel, it is the **Lightest, Neatest and Strongest Harrow** on the market. The two-section is made in 15 and 17-tooth sizes.



Spring Harrow Teeth



For All
 Leading
 Harrows.

Price, 35c.
 each.

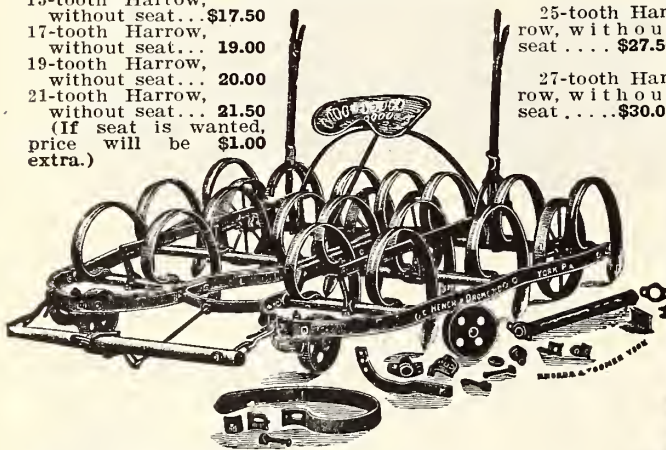
When taken
 in full sets,
 special price.

Hench & Dromgold's Improved Walking or Riding Spring Tooth Harrow on Wheels

The original standard lever wheel harrow of the world. Depth easily and quickly regulated by the levers; wheels prevent teeth from gouging. By use of ratchets and levers, 15 inches can be worn off teeth before renewing.

15-tooth Harrow, without seat... \$17.50
 17-tooth Harrow, without seat... 19.00
 19-tooth Harrow, without seat... 20.00
 21-tooth Harrow, without seat... 21.50
 (If seat is wanted, price will be \$1.00 extra.)

25-tooth Harrow, without seat... \$27.50
 27-tooth Harrow, without seat... \$30.00



Hench & Dromgold's Ratchet Float Harrow

This Harrow has ratchet arrangement for regulating length of tooth in case of wear.

Special Discount for Cash.



14-tooth Harrow... \$11.00
 16-tooth Harrow... 12.00
 18-tooth Harrow... 13.00

20-tooth Harrow... \$14.00
 22-tooth Harrow... 15.00

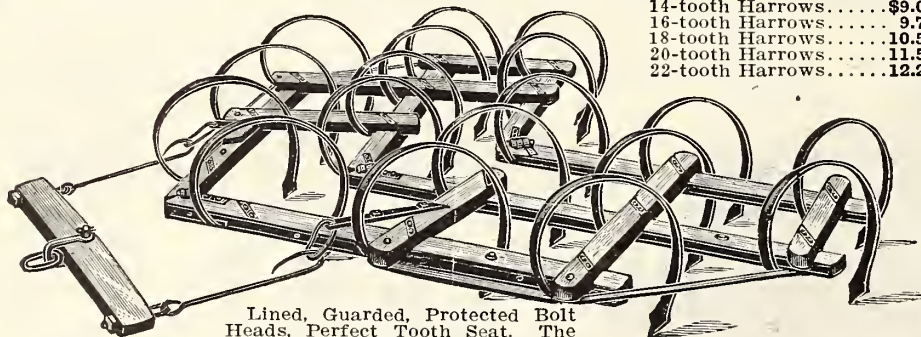
Michigan Pattern Reversible Harrow Tooth Points



Fastening device to the old teeth very simple, making any length desired. Points reversible. Has pulverizing qualities for any soil. Price, 15c.

Wood Frame Harrow, Steel Lined

14-tooth Harrows... \$9.00
 16-tooth Harrows... 9.75
 18-tooth Harrows... 10.50
 20-tooth Harrows... 11.50
 22-tooth Harrows... 12.25



Lined, Guarded, Protected Bolt Heads, Perfect Tooth Seat. The best of "Wood Frame" Harrows.

The Butts Reversible Harrow Tooth Points

The double point is equivalent to two new teeth, having the holder besides.

Can be used on all Spring Harrow Teeth. Price, each, 20c.

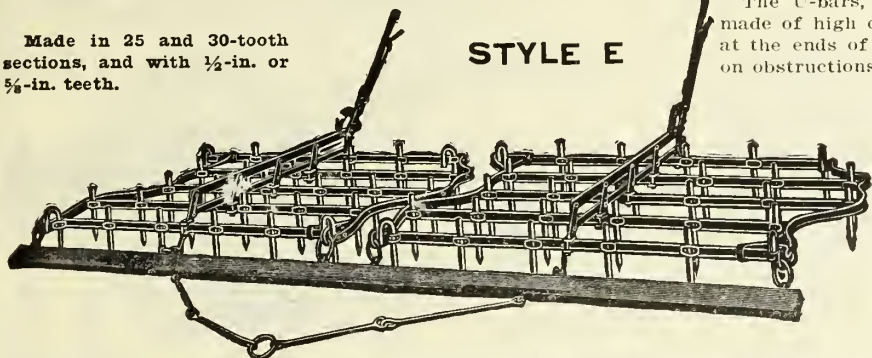


SYRACUSE REVERSIBLE HARROW TOOTH POINTS. Each, 10c.

GRITCO GUARDED FRAME LEVER HARROW

Made in 25 and 30-tooth sections, and with 1/2-in. or 5/8-in. teeth.

STYLE E



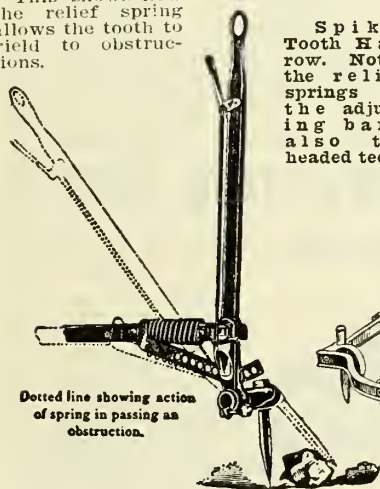
The U-bars, channels, oscillating bars and teeth are made of high carbon steel. The channels, being placed at the ends of the U-bars, prevent them from catching on obstructions, as is frequently the case with the open end harrow. Strong and well made, but carrying no superfluous weight. Corner braces, oscillating castings and lever castings of malleable iron.

	List Price.	Our Price.
50-Tooth Harrow, 1/2-inch Teeth, Weight, 190 lbs...	\$17.00	\$11.00
50-Tooth Harrow, 5/8-inch Teeth, Weight, 195 lbs...	18.00	11.50
60-Tooth Harrow, 1/2-inch Teeth, Weight, 210 lbs...	19.00	12.00
60-Tooth Harrow, 5/8-inch Teeth, Weight, 215 lbs...	20.00	13.00

GRITCO GUARDED FRAME HARROW WITH RELIEF SPRINGS

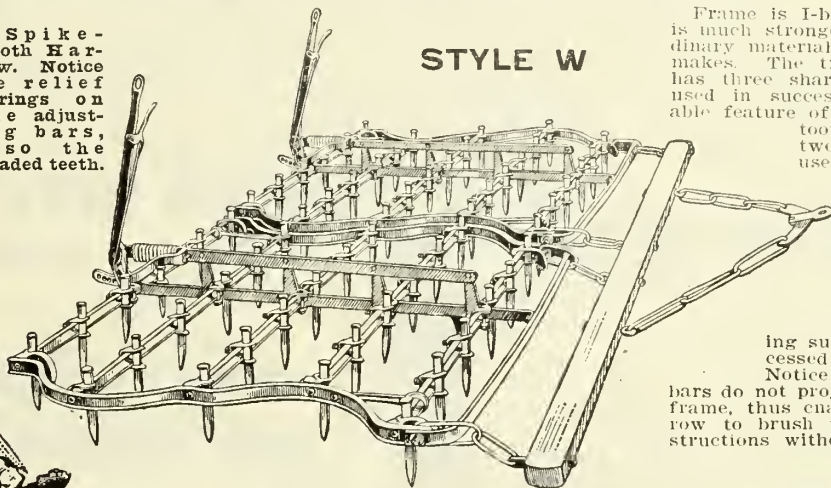
This shows how the relief spring allows the tooth to yield to obstructions.

Spike-Tooth Harrow. Notice the relief springs on the adjusting bars, also the headed teeth.



Dotted line showing action of spring in passing an obstruction.

STYLE W



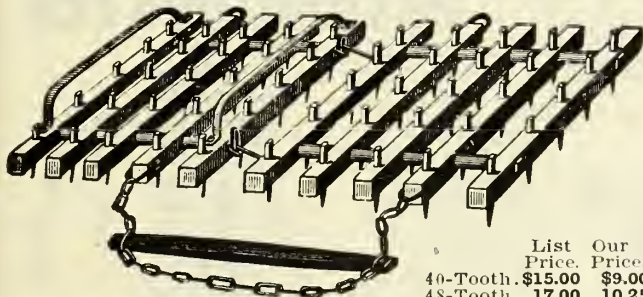
Frame is I-beam, steel, and is much stronger than the ordinary material used on other makes. The triangular tooth has three sharp edges to be used in succession. A valuable feature of the triangular tooth is that the two edges not in use are sharpened by contact with the soil. Tooth-holder is simply perfect. It surrounds both the tooth and the bar, the pressure being supplied by a recessed nut and bolt. Notice that the tooth bars do not project beyond the frame, thus enabling the harrow to brush up against obstructions without injury.

	List Price.	Our Price.		List Price.	Our Price.
50-Tooth.....	\$19.00	\$12.00	75-Tooth.....	\$28.50	\$18.00
60-Tooth.....	21.00	13.50	90-Tooth.....	31.50	20.25

STEEL "U" BAR LEVER HARROW

Bars "U"-shape steel, main cross or connecting bars 2-inch steel channels. Head-d steel teeth 1/2-inch and 5/8-inch square by 8-inch held firmly. Lever is attached to each section, by means of which teeth can be given any desired slant, for releasing trash, pulverizing or smoothing.

BALTIMORE DOUBLE HINGE HARROW



This is a two-section, wood-frame, spike tooth Harrow. The runners, as seen in the cut, are intended to be used in carrying the Harrow from one field to another.

GARDENER'S HARROW

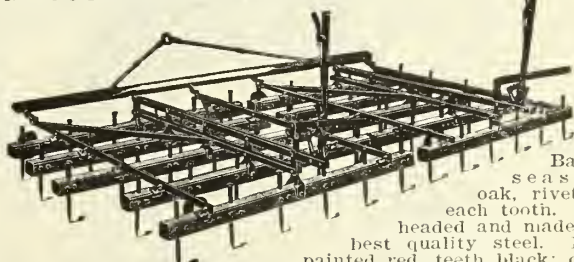
This Harrow is similar to the Baltimore Double Hinge Harrow, noted above, only it is made in one section instead of two. It is designed to be used with one horse. We furnish this Harrow with 30 teeth, which cuts 4 feet 6 inches wide, and with 25 teeth, cutting 3 feet 8 inches wide.

	List Price.	Our Price.		List Price.	Our Price.
With 25 teeth..	\$9.00	\$5.50	With 30 teeth..	\$10.00	\$6.50

Made in 25 and 30-tooth sections.

	List Price.	Our Price.
2-Section, 50-Tooth, 1/2-inch Teeth, Weight, 196 pounds.....	\$18.00	\$11.50
2-Section, 50-Tooth, 5/8-inch Teeth, Weight, 212 pounds.....	19.00	12.00
2-Section, 60-Tooth, 1/2-inch Teeth, Weight, 216 pounds.....	20.00	12.50
2-Section, 60-Tooth, 5/8-inch Teeth, Weight, 232 pounds.....	21.00	13.50

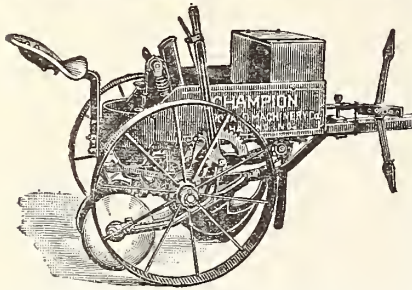
GRITCO WOOD BAR LEVER HARROW



Bars of seasoned oak, riveted to each tooth. Teeth headed and made from best quality steel. Frame painted red, teeth black; combination draw bars furnished for two, three and four-section harrows when ordered.

	List Price.	Our Price.
No. 2450—2-Section, 50-9/16-inch Teeth.....	\$20.00	\$12.00
No. 2450—2-Section, 50-5/8-inch Teeth.....	21.00	12.50
No. 2560—2-Section, 60-9/16-inch Teeth.....	21.00	12.50
No. 2560—2-Section, 60-5/8-inch Teeth.....	22.00	13.00

O.K. CHAMPION POTATO PLANTER



Opens the trench, plants the potatoes any distance set for, covers them with moist soil and marks for the next row. The fertilizer distributor will distribute any quantity of fertilizer desired. All that is necessary for the operator to do is to drive the team steady and keep the hoppers supplied with seed and fertilizer. The position of the driver is such that he can

oversee the work of the planter at all times. The accuracy with which the potatoes are planted is sufficient reason for the farmer to select an O. K. Champion. It will plant with equal satisfaction round or cut seed, each cup will pick up a seed and carry it into the spout from which it is dropped into the V-shaped trench opened by the shoe. The automatic feeding device consists of an endless chain with a series of cups attached running over the sprocket wheels, the top one resting on a spring cushion, which is designed to take up the jar whenever one of the wheels happens to drop into a rut or passes over a stone. The cups used on the planter are of special design. The years of study given to this has enabled the manufacturers to produce a cup that will give good results.

No other planter has this feature, and careful study of the matter will convince the potato grower that to put your seed into the ground without bruising or otherwise mutilating it is the proper way to handle it.

Weight, with fertilizer attachment, 320 pounds.
List Price.....\$100.00
Our Special Price.....60.00

"Peerless" Hand Potato Planter

THE LIGHTEST TUBULAR PLANTER MADE.

Its spring-closed jaws are especially designed to enter the soil easily, yet open wide enough to drop the largest seed. The dropping lever or dump is adjustable for any depth of planting. The conveyor tube is galvanized iron.

Our Special Price, \$1.00; List Price, \$1.60.

Directions for Using. — Walk erect, plunge planter into the soil, press forward as you withdraw it; seed is left in moist soil, not dry, as is usually the case when seed is dropped by one man and left to be covered by another.



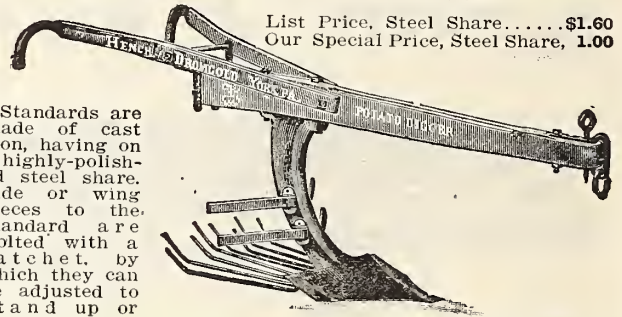
"Acme" Hand Potato Planter

This is similar to the above, except it is not tubular, but a stick planter. We do not carry these in stock, but can furnish them direct from the factory. Same directions for working apply on this as on the "Peerless."

Our Special Price, 75c.; List Price, \$1.00.

Hench & Dromgold Potato Digger

List Price, \$13.00; Our Special Price, \$8.00.



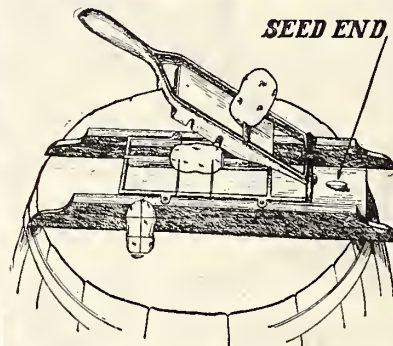
List Price, Steel Share.....\$1.60
Our Special Price, Steel Share, 1.00

Standards are made of cast iron, having on a highly-polished steel share. Side or wing pieces to the standard are bolted with a ratchet, by which they can be adjusted to stand up or down as desired. Fingers extending back from the standard are made in a zig-zag form, instead of straight, as shown in cut, on account of which they separate the potatoes from the ground better. They are made of spring steel, and are very elastic and durable.

We Also Carry Repairs for the Hitchcock Digger.

Steel Point.....List Price, \$1.20; Our Special Price, \$.75
BeamList Price, 4.00; Our Special Price, 2.50
Cast Head.....List Price, 2.00; Our Special Price, 1.25

THE GEM SEED POTATO CUTTER



The construction of the Gem Seed Potato Cutter is very simple, and is built for accuracy as well as convenience. It is strong and durable; the knives are of good quality steel and are fitted to grooves in frame, making them easy to remove if necessary. It will cut any size potato in pieces uniform in size, thereby insuring more accurate planting when power planter is used. **Size, 24 inches long, 8 inches wide. Weight, 8 pounds. List Price, \$4.00. Our Special Price, \$2.50.**

O. K. Champion Potato Digger

List Price, \$125.00

Our Special Price, \$75.00

Weight 580 Lbs.

Send for Special Catalogue.



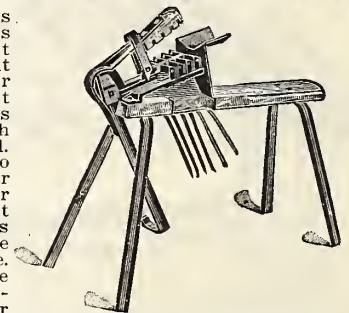
The O. K. Champion Digger with its many superior features commends itself to the careful buyer. It has stood the test of years and has many times proven to be the victor in the potato field over all competitors. Its construction embodies all the essential features which make it absolutely reliable. It is built with a view to simplicity, doing away with all unnecessary wearing parts, which accounts for its easy draught. Two horses will do the work with ease. There is no chain drive to cause friction and wear; only two gear wheels are employed on the entire machine.

The shovel is 20 inches wide, scooping up that width of ground and potatoes, depositing them on the elevator separating apron, whose links are alternately raised and lowered. These run over a sprocket agitator, which keeps the apron continuously agitated up and down, causing the separation to be done with the least possible power requirements and giving the machine a good separating capacity. The potatoes then fall upon the rear shaking fork row, thoroughly cleaning any remaining dirt from the potatoes, and depositing them in a row of about 12 inches behind the machine.

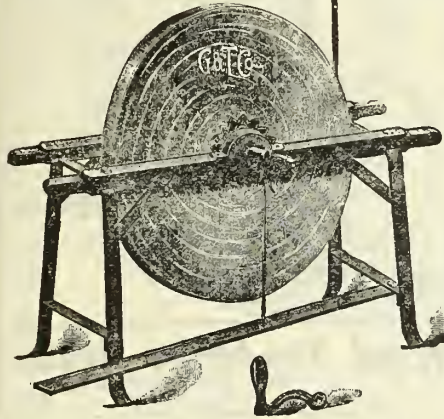
O. K. CHAMPION POTATO CUTTER

Cuts potatoes in exact sizes that are best suited to plant with any power planter. To cut by hand means all shapes, both large and small. Will cut five to seven bushels per hour. No power planter can plant correctly unless the tubers are cut an exact size. Planting large sized seed insures a better stand because there is more nourishment furnished the young plant than can be had from small seed. Many times it has been noticed that many potatoes will be up three or four inches before others break through the surface, and frequently they never show themselves, which failure is placed to bad seed, when really it is owing to too small seed.

List Price, \$10.00; Our Special Price, \$6.00.



Griffith & Turner Ball-Bearing Grindstone



The G. & T. B. Grindstone has combination steel and hardwood frame. Stone carefully selected Berea grit. Ball-bearing steel journals and axles.

Stones usually furnished vary in thickness from 1 3/4 to 2 1/4 inches.

Weight of frame and fixtures only 32 pounds.

Shipped knocked down unless ordered otherwise. If crated an additional charge will be made.

No. 1 Stone, 90-110 pounds, each.....	\$4.25
No. 2 Stone, 70- 80 pounds, each.....	4.00
No. 3 Stone, 40- 50 pounds, each.....	3.75
Grindstone Fixtures as used on G. & T. Ball-bearing Stones, per set.....	1.00
Cheaper Cast Grindstone Fixtures with Shafts.	
15-inch, per set.....	35c.
17-inch, per set.....	40c.
19-inch, per set.....	50c.

W. & B. Ball-Bearing Grindstone

The W. & B. Ball-Bearing Grindstone is one of the strongest built, and is practically indestructible.



Price, \$4.50.

NORKA ANTI-FRICTION BI-PEDAL GRINDSTONE

Price, \$4.00

Bushed Stone for above.....\$1.75

W. & B. Bi-Pedal Grindstone

Tubular Frame with Roller Bearings.

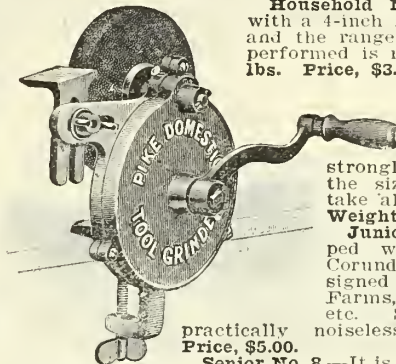
No. 10, each..... \$5.50
No. 20, each..... 5.00

"W. & B." TUBULAR FRAME GRINDSTONE

All parts fit perfectly, causing the stone to run true. Absolutely indestructible—nothing to wear out. Made in two sizes—No. 1, for 30-inch stone, and No. 2, for a stone 24 inches in diameter or less.

No. 1, each.....\$5.00
No. 2, each..... 4.75

PIKE TOOL GRINDERS



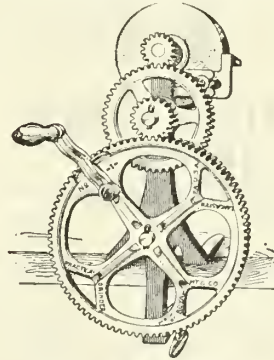
Household No. 4.—It is equipped with a 4-inch Pure Corundum Wheel, and the range of work than can be performed is remarkable. **Weight, 6 lbs. Price, \$3.00.**

Domestic No. 5.—It is equipped with a 5 1/2 x 3/4-inch Pure Corundum Wheel, and is built very strongly and compactly. Just the size for a mechanic to take along in his tool chest. **Weight, 12 lbs. Price, \$4.00.**

Junior No. 8.—It is equipped with a 5x1-inch Pure Corundum Wheel, and is designed especially for Garages, Farms, Workshops, Hotels, etc. Smooth running and practically noiseless. **Weight, 10 lbs. Price, \$5.00.**

Senior No. 8.—It is equipped with a 6x1 1/4-inch Pure Corundum Wheel, manufactured for all-around grinding. **Weight, 20 lbs. Price, \$7.00.**
Polishing Attachment for Any of Above, \$1.00.

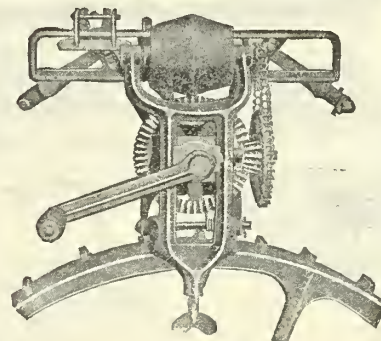
Gritco Tool Grinders



The **Gritco Tool Grinder, No. 400**, is just the right kind of a grinder for putting the best edge on any kind of tool. **Price, \$2.00.**

The **Gritco Tool Grinder, No. 405**, is not so high-g geared as the No. 400. **Price, \$1.50.**

DIAMOND SICKLE GRINDER



Can be easily set to grind at any bevel. No clamping required to hold knife in position. Only two gears in entire machine. Emery wheel best obtainable; will not glaze nor draw temper from knives. Can furnish straight-faced stone when desired for grinding tools. Easily attached to bench, mowing machine wheel or other suitable place.

PRICE, \$3.00.

WE CARRY A FULL LINE OF LOOSE STONES

ALL SIZES



PRICES.

From 40 lbs. to 200 lbs., per lb. 1 1/2c.

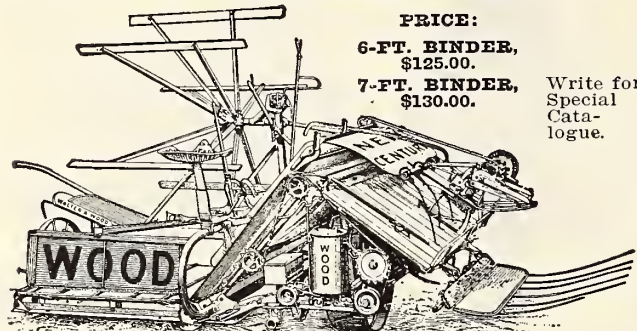
Under 40 lbs., per lb. 2c.

Over 200 lbs., per lb. 2c.

Walter A. Wood

NEW CENTURY GRAIN BINDER

A GENUINE TWO-HORSE MACHINE.



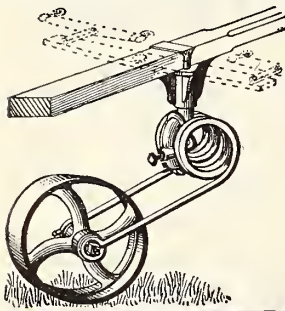
PRICE:
6-FT. BINDER,
 \$125.00.
7-FT. BINDER,
 \$130.00.

Write for
 Special
 Cata-
 logue.

Rigid main shaft of heavy angle steel. Strong double-truss joint between main frame and platform. Great 36-inch all-steel drive wheel. "Z"-shaped finger bar. Low elevators with easy slope. Unusually deep elevator; greater capacity for heavy crops. Steep-pitched binder deck. Relief roller between elevators and deck. Automatic tighteners on all aprons. Three under-packers, assuring perfect work in short grain. Revolving discharge-arms, making perfect separation. Improved spring dropboard. Improved compression device. Unequaled knottor, grasper and tension. Binder driven from the rear.

KEYSTONE TONGUE SUPPORT

FOR HARVESTING MACHINERY AND DISK HARROWS.

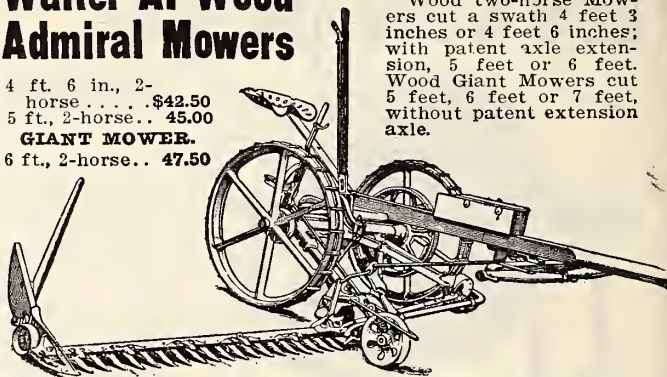


This Tongue Support is simple and light in weight. The springs are made of best 3/4-inch spring steel. The coils are 4 1/2 inches in diameter, and have arms extending 12 inches. The wheel is 11 1/2 inches high, with 2 3/4-inch tread, thus assuring a light draft. No holes need to be bored in the tongue to fasten this support, thus allowing the tongue all its strength. **Price, \$3.50.**

Walter A. Wood

Admiral Mowers

4 ft. 6 in., 2-horse... \$42.50
 5 ft., 2-horse... 45.00
GIANT MOWER.
 6 ft., 2-horse... 47.50



Wood two-horse Mowers cut a swath 4 feet 3 inches or 4 feet 6 inches; with patent axle extension, 5 feet or 6 feet. Wood Giant Mowers cut 5 feet, 6 feet or 7 feet, without patent extension axle.

Walter A. Wood

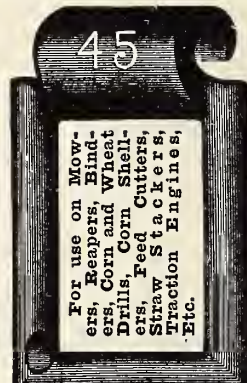
Vice-Admiral Mowers

With Steel Wheel, \$40.00.

Wood one-horse Mowers cut a swath 3 feet 6 inches or 4 feet.

Link Chain Belting

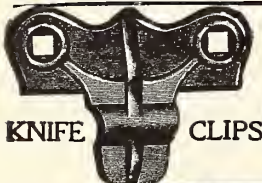
No.	Links per ft.	Working strain, lbs.	List price per ft. all plain links	Retail per link
25	13.3	75	11c.	2c.
32	10.4	150	11c.	3c.
33	8.6	200	11c.	3c.
34	...	...	11c.	...
35	7.4	250	11c.	3c.
42	8.75	300	12c.	3c.
45	7.4	350	11c.	3c.
48	6.	375	13c.	4c.
52	...	...	18c.	...
55	7.4	450	16c.	4c.
62	7.25	650	22c.	5c.
65	5.66	550	18c.	6c.
72 1/2	7.25	925	37c.	7c.
76 1/2	5.8	700	25c.	8c.



For use on Mowers, Reapers, Binders, Corn and Wheel Drills, Corn Shellers, Feed Cutters, Straw Stackers, Traction Engines, Etc.

BINDER CANVAS SLATS

Each, 5c.



KNIFE CLIPS



WOOD PITMANS

PITMAN STRAPS OR CLASPS

SPRING COTTERS

PRICES ON APPLICATION



WEARING PLATES



Binder Canvas Staples

Per Pound, 20 cents.

PITMAN WOODS

Finished and Bored, Without Straps, Bolts or Boxes. To fit the following machines: Deering (Ideal Mower), McCormick (Big 4 Mower), Milwaukee (No. 6 Mower), Plano (Jones Mower). Each, 40c.

PITMAN BOLTS

To Fit the Following Machines: Deering Knife End. Deering Box End. McCormick, M322, with Nut; M483, with Nut 2 1/2 x 7/16; 483 1/2, with Nut 3 x 7/16.

Milwaukee, with Horn Nut, PG174. Milwaukee, with Ratchet Nut, PG175. Osborne, Box End (Long). Osborne, Knife End (Short). Plano, 7/16x3, with Nut J134. Plano, 7/16x2 1/2, with Nut J103. Plano, 7/16x2 1/2, with Nut J147. Plano, 7/16x2 1/2, with Nut J363.

Each, 10c.

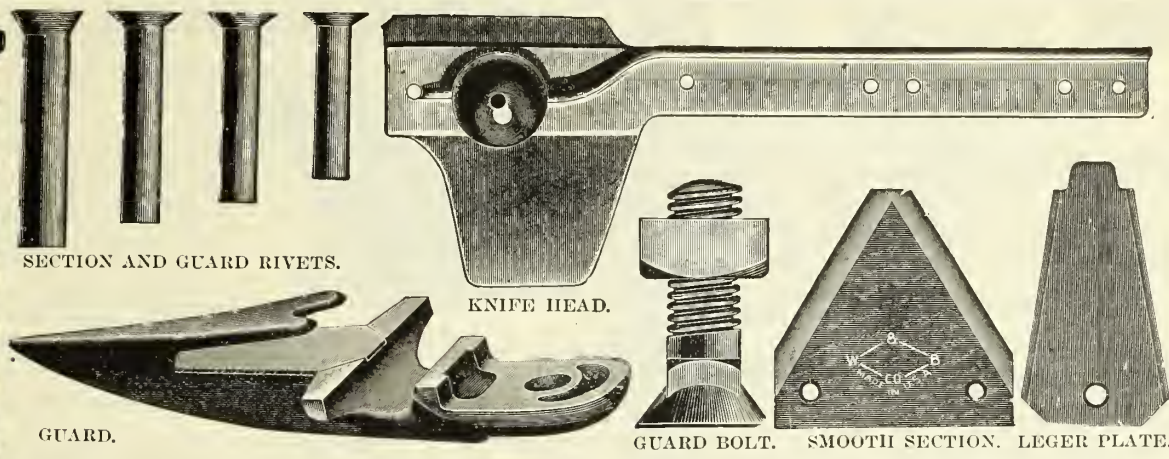
Buckeye, complete with washers... \$ 15
 Champion, H442, with Nut... 15
 Champion, H609, with Nut... 15
 Champion, 1/2-inch, Left, A96... 20
 Champion, 1/2-inch, Right, No. 13... 20
 Champion, 3/4-inch... 20
 Wood, with Nut... 20

KNIFE CLIPS	Price, Each.
To fit the Following Machines:	
Champion, A413, A468, A467, A693...	.10
Deering, F94, E461, F92...	.10
McCormick, M254, M533, H496, H919, L39...	.10
McCormick, M290, M293, M632...	.15
Milwaukee, J1, Osborne, E36...	.10
Osborne (Columbia), K256...	.20
Plano, J46, J106, J325...	.10
Wood, 171, 1432...	.10

PITMAN STRAPS OR CLASPS	Price, Each.
To fit the Following Machines:	
Malleable Deering, D464, D465, D605, D606, D470, D607...	\$.20
Malleable McCormick, M556, M557, M147, M304, M315...	.20
Malleable Milwaukee, PJ9, PJ9 1/2, PH34, PH35, PG34, PG35, PJ34, PJ35...	.20
Malleable Plano, J118, J119, J120, J121...	.20
Plano, J378, Steel (will answer for 355). Plano, J379, Steel (will answer for 356). Plano, J380, Steel (will answer for 357, 358)...	.20

WOOD PITMANS	Price, Each.
(Without Pitman Box and Bolts.)	
To Fit the Following Machines:	
Deering (Ideal Mower), 1901 and since, D1471...	\$1.50
McCormick (Big 4 Mower), 1896 and since, M392...	1.50
Milwaukee (No. 6 Mower), 1894 and since, PN290...	1.50
Plano (Jones Mower), 1901 and since, No. 7394...	1.50

WEARING PLATES	Price, Each.
To Fit the Following Machines:	
Champion, H315, Under Shoe Cap.	
Champion, H282, Under Clips.	
Deering, D1038, Under Clips.	
Deering, 1040, Under Shoe Cap.	
Deering, D1455, Under Shoe Cap.	
McCormick, M468, Under Clips.	
McCormick, M490, Under Shoe Cap.	
Milwaukee, PK156, Under Clip PJ1.	
Milwaukee, PG157, Under Shoe Cap.	
Osborne, K325, Under Clips.	
Osborne, K326, Under Shoe Cap.	
Plano, 7094, Under Clips.	
Plano, 7095, Under Shoe Cap.	
List Price, ea., 15c. Retail Price, ea., 10c.	



SECTION AND GUARD RIVETS.

KNIFE HEAD.

GUARD.

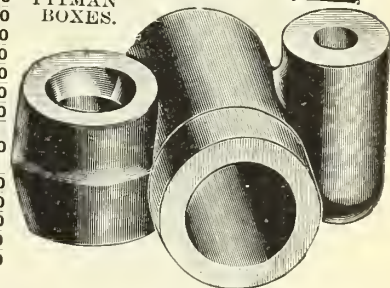
GUARD BOLT. SMOOTH SECTION. LEGER PLATE.

MOWER SMOOTH SECTIONS, KNIVES AND GUARDS

REAPER SICKLE.

MOWER KNIFE.

Made to fit the following Machines.	Size of Section.	Retail Price of Section	No. of Guard.	Retail Price of Guard	No. of Knife Head.	Retail Price of Knife Head	Knives complete.		Pitman Boxes No.	Last Price of Pitman Boxes	Retail Price of Pitman Boxes.
							4 1/2 ft.	5 ft.			
Wood									539-540	\$.60	\$.50
Wood	3x3 1/8	\$.05	L	\$.25	1680	\$.35	\$2.40	\$2.50	291 1/2	.60	.60
Wood	3x2 3/8	.05	P. F.	.25	1810	.35	2.40	2.50	1785	.60	.40
Deering	3x3 1/4	.05	D 698	.25	F 123	.35	2.40	2.50	D 334	.90	.80
Deering	3x3 1/4	.05	F 1/2	.25	F 174	1.00	2.40	2.50			
Deering	2 1/2 x 3 3/8	.05	F 99 1/2	.25	F 74	1.00	2.40	2.50			
McCormick	3x3 3/16	.05	M 462	.25	M 139	.25	2.40	2.50	M 317	.50	.40
McCormick	3x3 3/16	.05	M 253	.25	M 139	.25	2.40	2.50			
Champion	3x3 3/16	.05	A 41	.25	A 415	.50	2.40	2.50			
Champion	3x3 3/16	.05	A 42	.25	A 415	.50	2.40	2.50	A 747	.50	.40
Champion	3x3 3/16	.05	A 811	.25	A 415	.50	2.40	2.50			
Osborne	3x3 High Punch	.05	K 280	.25	K 284	.25	2.40	2.50	K 278	.90	.50
Osborne	3x3 Low Punch	.05	K 72	.25	K 212	.25	2.40	2.50			
Johnston	3x3 3/8	.05	1811	.25	919	.25	2.40	2.50			
Johnston	3x3 1/4	.05	77	.25	124	.25	2.40	2.50	257	.40	.40
Flano	3x3 1/8	.05	J 110	.25	J 94	.25	2.40	2.50	J 100	.30	.25
Flano									J 99	.75	.40
Milwaukee	3x3 1/8	.05	P K 5	.25	P.G. 6	.25	2.40	2.50	P J 50	.80	.25
Milwaukee									P J 173	.25	.25
Adriance Buckeye	3x3 1/8	.05	3087	.25	557 F	.40	2.40	2.50	PITMAN BOXES.		
Akron Buckeye	3x3 3/4 Low Punch	.05	775	.25	301	1.00	2.40	2.50			
Akron Buckeye	3x3 3/4 High Punch	.05	775	.25	301	1.00	2.40	2.50			
Whiteley	3x3 11/32 Low Punch	.05	A 16	.25	A 57	1.00	2.40	2.50			
Whiteley	3x3 11/32 High Punch	.05	A 185	.25	15	1.00	2.40	2.50			
Eureka	3x2 1/2	.05	40	.25	66 B	.50	2.40	2.50			
Eureka	3x3 1/8	.05	40 D	.25	66 B	.50	2.40	2.50			
Manny	3x3 3/8	.05	A	.25	Mal. Lock Nut	1.00	2.40	2.50			
Warrior	2 1/2 x 3	.05	W	.25	1470	1.00	2.40	2.50			
Warrior	2 1/2 x 2 3/8	.05	V	.25	1699	.50	2.40	2.50			
Triumph	3x3 1/8	.05	635	.25	6139	.50	2.40	2.50			
Empire	3x3 3/8	.05	55	.25	Forged	1.00	2.40	2.50			
Bradley	3x3 1/8	.05	400	.25	736	.50	2.40	2.50			



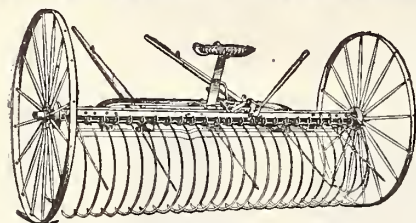
COTTER. Prices on application.

BINDER SICKLE SECTIONS, GUARDS AND KNIVES

Made to fit the following Machines.	Size of Section.	Retail Price of Section.	No. of Guard.	Retail Price of Guard.	No. of Knife Head.	Retail Price of Knife Head.	Knives complete.		
							6 ft.	6 1/2 ft.	7 ft.
Wood Binder	3 x 2 5/8	\$.05	W	\$.25	H 2139	\$.40	\$2.75	\$3.00	\$3.00
Wood Binder	3 x 2 3/10	.05	H 171	.25	H 1150	.35		\$3.00	
Deering Binder	3 1/2 x 2 1/4	.05	286	.25	H 260	.25	2.75		3.00
Deering Binder	3 1/8 x 2 5/16	.05	286	.25	A 46	.50	2.75		3.00
McCormick Binder	3 x 2 1/2	.05	H 495	.25	B 23	.25	2.75		3.00
Champion Binder	3 x 2 5/8	.05	U 53	.25	1852	.50	2.75		3.00
Osborne Binder	3 x 2 1/4	.05	D 300	.25	B 587	.25	2.75		3.00
Johnston Binder	3 x 2 3/8	.05	50 A	.25	L 296	.25		3.00	
Flano Binder	3 x 2 3/16	.05	L 300	.25	L 395	.25	2.75		3.00
Flano Binder	3 x 2 1/2	.05	L 67	.25	L 66	.25	2.75		3.00
Milwaukee Binder	3 1/2 x 2 1/4	.05	J 76	.25	H 41 7/8	.25	2.75		3.00
Adriance Binder	3 x 2 1/2	.05	1265	.25	1245 A	.40	2.75		3.00
Akron Buckeye Binder	3 x 2 1/4	.05	T 35	.25	H 700	1.00	2.75		3.00

Leger Plates for all Machines, 5c. each. Section and Guard Rivets, 15c. lb. Guard Bolts for all Machines, 4c. each. Above we give a table of sizes, numbers and prices of Sections, Guards, Knife Heads and Knives complete, and combinations generally used. In some cases more than one Knife Head and Guard have been used with the same section. In ordering, always give number of Guard and Knife Head, also drawing of Section wanted, showing holes punched in Section. In ordering Knives complete, always give number of old Knife Head.

BALTIMORE STEEL-DUMP HAY RAKE



An efficient, convenient rake of great strength and durability. One-piece angle steel frame; steel axle extends from wheel to wheel and trussed to give double strength. Trip attachment very simple. It is attached to center of axle; equipped with hand lever; oil tempered steel teeth within in- and shafts.

dependent tooth-holders; combined pole
 8 ft., 20 Teeth...List Price, \$34.00. Our Special Price, \$21.50
 8 ft., 24 Teeth...List Price, 36.50. Our Special Price, 22.50

Walter A. Wood Steel Self-Dump Rakes

8 ft., with 20 Teeth. List Price, \$34.00. Our Special Price, \$21.50
 8 ft., with 24 Teeth. List Price, 35.00. Our Special Price, 22.00
 9 ft., with 27 Teeth. List Price, 38.00. Our Special Price, 24.00

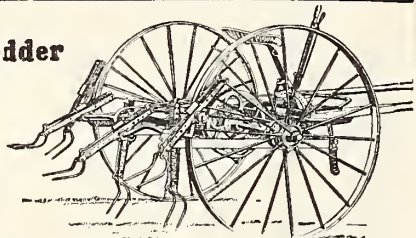
Thomas Reliable Steel Self-Dump Rake

8 ft., 20 Teeth...List Price, \$36.00. Our Special Price, \$23.50
 9 ft., 23 Teeth...List Price, 38.00. Our Special Price, 24.00

THOMAS HAND-DUMP WOOD RAKE—Very popular.
 8 ft., 20 Teeth...List Price, \$34.00. Our Special Price, \$22.00

Lord Baltimore Steel Tedder

Well-built, large ground wheels, free from vibration. Center chain drive.



6-Fork. List Price, \$60.00. Our Special Price, \$35.00.
 8-Fork. List Price, \$66.00. Our Special Price, \$40.00.

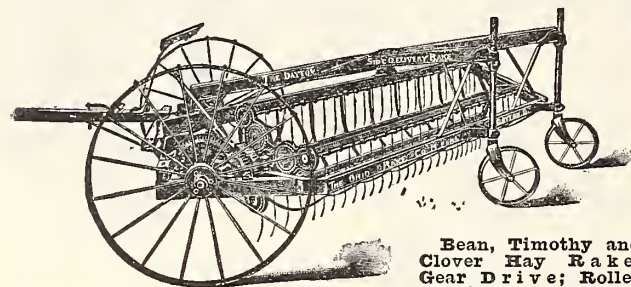
Walter A. Wood Tedder

6-Fork. List Price, \$60.00. Our Special Price, \$35.00
 8-Fork. List Price, 66.00. Our Special Price, 40.00

Thomas Steel Triumph Tedder

6-Fork. List Price, \$64.00. Our Special Price, \$37.00
 8-Fork. List Price, 70.00. Our Special Price, 41.00

Lord Baltimore Side-Delivery Rake



Bean, Timothy and Clover Hay Rake; Gear Drive; Roller Bearings.

Gathers the hay on the ground, and delivers it at one end of the machine in a continuous windrow. It is an all-gear drive machine; heavy, strong and powerful all the way through. List Price, \$100.00; Our Special Price, \$60.00.

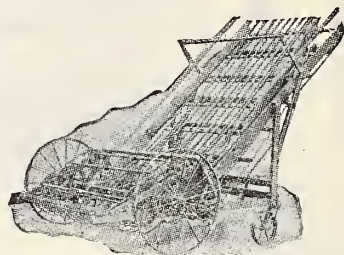
Rake Teeth

FOR ALL LEADING RAKES

In ordering, either send old tooth or exact drawing and avoid errors

List Price, 36c.
 Our Special Price, 25c.

Lord Baltimore Hay Loader



Has been carefully designed and embodies all of the up to date improvements.

By means of a simple adjustment, provided on each axle box, the rake bars can be raised or lowered to meet various conditions of the soil and the hay. This adjustment makes it unnecessary for the hitches on loader to be changed.

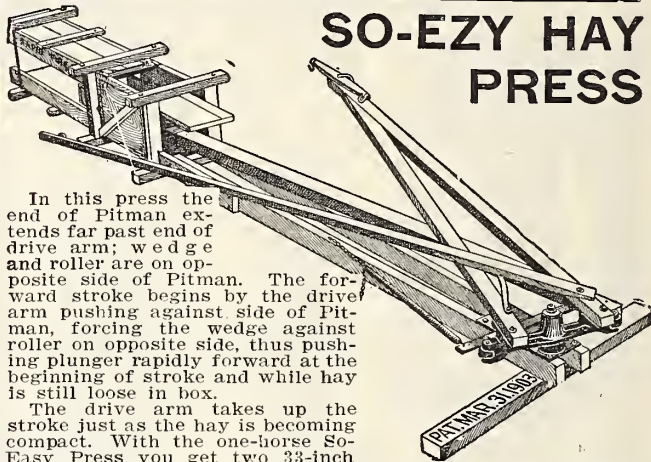
The rake bars are open construction, so that every part is visible.

The Lord Baltimore Hay Loader will certainly meet the wants of every farmer that desires a machine which is free of all complicated and intricate parts. Wheels, 46 inches diameter. Weight, 1213 lbs.

No. 1, with Steel Wheels, List Price, \$104.00; Our Special Price, \$65.00.

WRITE FOR CATALOGUE AND PRICES OF OUR BELT POWER HAY PRESSES.

SO-EZY HAY PRESS



In this press the end of Pitman extends far past end of drive arm; wedge and roller are on opposite side of Pitman. The forward stroke begins by the drive arm pushing against side of Pitman, forcing the wedge against roller on opposite side, thus pushing plunger rapidly forward at the beginning of stroke and while hay is still loose in box.

The drive arm takes up the stroke just as the hay is becoming compact. With the one-horse So-Easy Press you get two 33-inch strokes to one round of horse.

	List Price.	Our Special Price.
1-Horse Press, unmounted.....	\$150.00	\$90.00
1-Horse Press, mounted.....	190.00	120.00

Rapid-Fire Hay Press

Very similar to the above, but a lighter machine. One-horse, full circle, two strokes, light draft, strong, simple, durable. Unmounted, List Price, \$120.00. Our Special Price, \$70.00. Mounted, List Price, \$160.00. Our Special Price, \$90.00.

Baling Ties



Cross Head.

Measure around the bale and add three inches to get the proper length. We carry 8½ and 9-ft. Cross Head and 9 and 9½-ft. Single Loop. Can furnish any other stock size or style.

CROSS HEAD BALE TIES.—9-ft., No. 14, \$2.25. 8½-ft., No. 15, \$1.75.
SINGLE LOOP BALE TIES.—9-ft., No. 14, \$1.50. 9½ ft., No. 14, \$1.60. 8½-ft., No. 15, \$1.30.

A bundle contains 250 ties.

ANNEALED BALING WIRE.—Nos. 11, 12, 13, 14 and 16 always on hand at lowest market prices on application.



List Price, 40c. Our Price, 25c. Special Prices in Quantities.

Tedder Forks

Always on hand, stock of forks for leading styles of hay tedders.

When ordering tedder forks, always state name of tedder, year it was made, if possible, and whether fork is in one or two pieces.

CELEBRATED APPLETON CORN HUSKER

This Husker will do the work. It is no experiment. It is superior to all others. We will be pleased to send anyone names of representative farmers who are using the Appleton Husker and will testify in its favor. We know that most Huskers have failed to give satisfaction. **The Appleton Husker never fails to measure up to the expectation of purchaser. Write for interesting Husker Catalogue.**

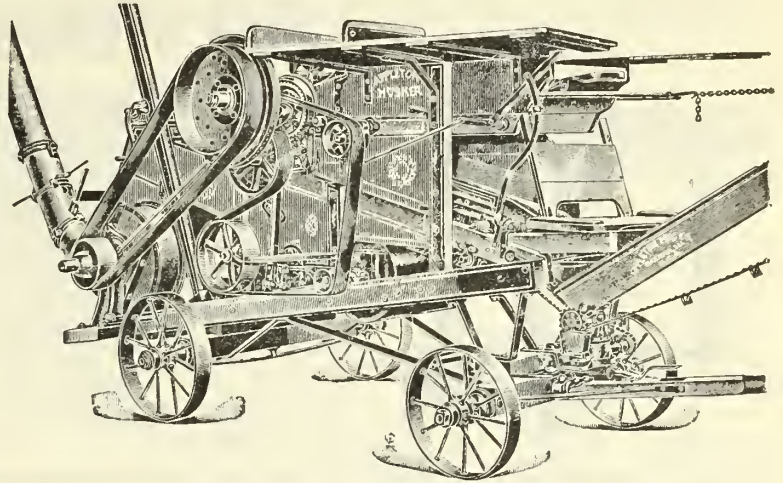
We guarantee that under the same conditions the Appleton Husker will do more and better work than any other Corn Husker on market; that it is simpler and requires less power. It is easier and safer to feed.

Capacity of Appleton Corn Huskers and Power Required.

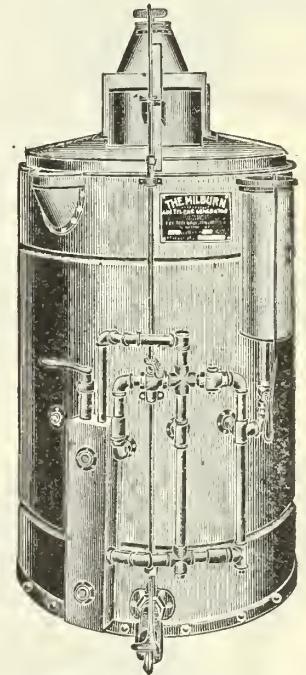
Size.	Horse-Power.	Capacity Per Hour.
No. 14.....	4-6	12-25 Bushels.
No. 18.....	6-10	40-60 Bushels.
No. 24.....	8-12	60-90 Bushels.
No. 32.....	15-20	80-125 Bushels.

Above power for cutter head. For shredder head we recommend 4 H. P. more.

No. 14—Two-Roll Husker, with cutter head, swivel, ear-corn carrier, 20-ft. blower and wheel mounting.....	\$246.88
No. 14—Husker with shredder head instead cutter head.....	256.25
No. 14—Husker with both cutter and shredder head.....	287.50
No. 18—Four-Roll Husker, with cutter head, swivel, ear-corn carrier, 20-ft. blower and wheel mounting.....	308.25
No. 18—Husker with shredder head instead cutter head.....	327.00
No. 18—Husker with both shredder and cutter head.....	345.75
No. 24—Six-Roll Husker, with cutter head, swivel, ear-corn carrier, 20-ft. blower and wheel mounting.....	475.00
No. 24—Husker with shredder head instead cutter head.....	490.00
No. 24—Husker with both cutter and shredder head.....	521.83
Blower Pipe, extra length, per foot.....	1.25
No. 32—Eight-Roll Husker, with cutter head, swivel, ear-corn carrier, 20-ft. blower and 4-wheel mounting, f. o. b. factory.....	625.00
No. 32—Husker with shredder head instead cutter head, f. o. b. factory.....	643.75
No. 32—Husker with both shredder and cutter head, f. o. b. factory.....	681.25



MILBURN GAS MACHINES



FOR LIGHTING COUNTRY HOMES.
In constructing the Milburn Acetylene Gas Machines, it is the sole object of the manufacturers to produce a machine giving the maximum efficiency, requiring the minimum space, and as simple as possible. Thus in the Milburn Machine there is no deterioration of carbide, the feed mechanism being protected from moisture; no over generation, the carbide being fed in predetermined quantity, and being contained in one body, it takes up the least possible space. It has the most approved safety devices, and the feed mechanism, being controlled entirely by the gravity, eliminates all complicated parts. Passed by the National Board of Fire Underwriters. Send for special catalogue.

25-light machine.....	\$120.00
35-light machine.....	150.00
50-light machine.....	175.00
75-light machine.....	250.00
100-light machine.....	300.00
200-light machine.....	600.00

MONARCH SEMI-STEEL STUMP PULLERS

The Old Reliable Monarch Stump Pullers are the strongest and most convenient Stump Pulling Machines made. The grooved drum, the long anchor hook, the double eccentric lever and the improved style of ratchet pawl are distinctive features of these machines.

	List Price.	Our Price.
No. 3—8 ft. 3/4" Anchor Cable. 50 ft. 3/4" Pull Cable....	\$55.00	\$35.00
No. 3—8 ft. 3/4" Anchor Cable. 100 ft. 3/4" Pull Cable....	63.50	40.00
No. 3—8 ft. 3/4" Anchor Cable. 150 ft. 3/4" Pull Cable....	72.00	45.00
No. 4—10 ft. 3/4" Anchor Cable. 75 ft. 3/4" Pull Cable....	98.00	70.00
No. 4—10 ft. 3/4" Anchor Cable. 100 ft. 3/4" Pull Cable....	113.00	80.00
No. 4—10 ft. 3/4" Anchor Cable. 150 ft. 3/4" Pull Cable....	143.00	100.00
No. 5—12 ft. 7/8" Anchor Cable. 100 ft. 7/8" Pull Cable....	135.00	96.25
No. 5—12 ft. 7/8" Anchor Cable. 150 ft. 7/8" Pull Cable....	173.00	122.50
No. 6—12 ft. 1" Anchor Cable. 100 ft. 1" Pull Cable....	154.00	109.50
No. 6—12 ft. 1" Anchor Cable. 150 ft. 1" Pull Cable....	199.00	142.50

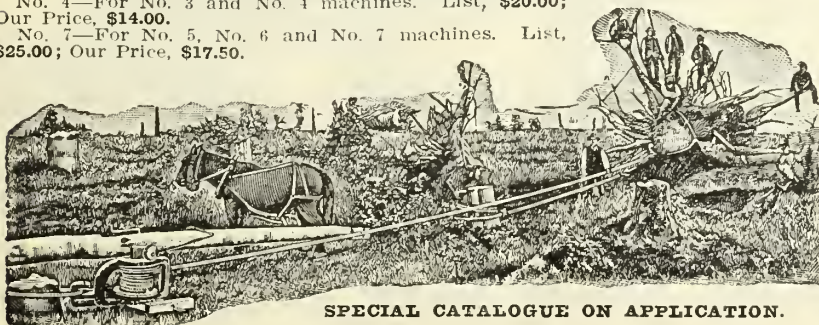
PRICES OF DOUBLE POWER PULLEYS.

No. 3—With 10 ft. 1 in. cable with hook on end. List, \$18.00; Our Price, \$13.50.
No. 4—With 12 ft. 1 in. cable with hook on end. List, \$26.00; Our Price, \$18.00.
No. 5—With 15 ft. 1 1/4 in. cable with hook on end. List, \$30.00; Our Price, \$21.00.
No. 6—With 15 ft. 1 1/4 in. cable with hook on end. List, \$35.00; Our Price, \$24.50.

PRICES OF BULL DOG STUMP HOOKS.

No. 4—For No. 3 and No. 4 machines. List, \$20.00; Our Price, \$14.00.
No. 7—For No. 5, No. 6 and No. 7 machines. List, \$25.00; Our Price, \$17.50.

**No. 3 Stump Pullers
have special steel
cable, while Nos. 4, 5
and 6 have Hercules
Red Strand Pull Cable.**



SPECIAL CATALOGUE ON APPLICATION.

MARYLAND LEVER CUTTER

Strong, Cheap and Durable.

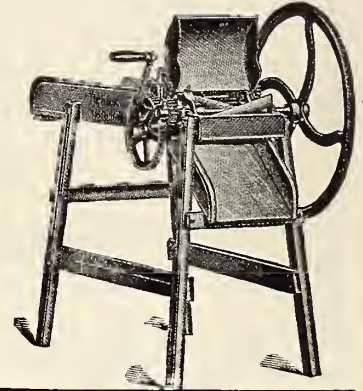


Knife, 11-inch. Wt., 55 lbs.
Retail..... \$3.00

ROSS CYLINDER TYPE HAND CUTTERS

No. 11½—"WONDER."—Ratchet feeding device which can be adjusted to cut from ¼ inch to 2 inches; has wooden side springs for feeding rolls, large heavy flywheel, long reach crank, babbitted bearings, hardwood frame, securely bolted. A strong, easily operated box for cutting hay and fodder; has one knife, 11¼ inches long, with a chilled shear plate, ground to an edge. **List, \$16.00. Retail, \$11.00.**

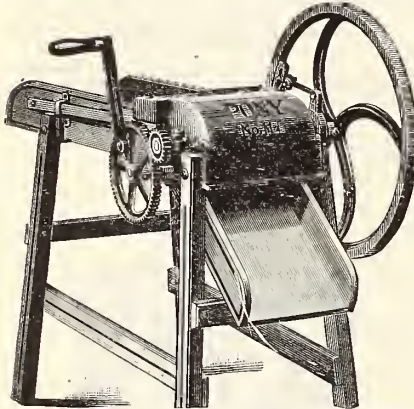
No. 11½—"FLYER."—The feeding rolls on this cutter are operated by means of cog wheels and sprockets. The feed is constant and uniform, and the cutter has large capacity. The feed rolls are equipped with coil tension springs; the cutter has large heavy flywheel, large crank, chilled shear bar and hardwood frame; length of cut, ¼ inch, ½ inch and 1 inch. Special gears for cutting ½ inch can be furnished on order. **List, \$20.00. Retail, \$18.00.**



The Baltimore Pony Cutter

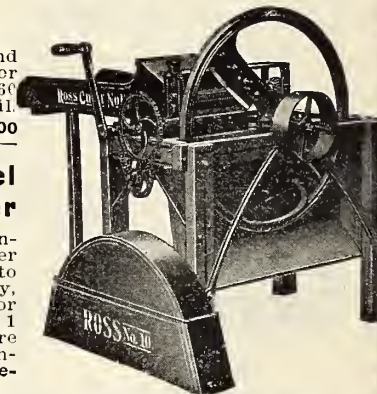
Adapted to cutting hay, straw and corn fodder, and is suitable for persons keeping from one to four or five animals. Weight, K. D., packed for shipment, 160 pounds. **List. Retail.**

One knife, 11¼ in. long..... \$14.00 \$10.00



Ross No. 10 Knife on Fly Wheel Type of Cutter for Hand and Power

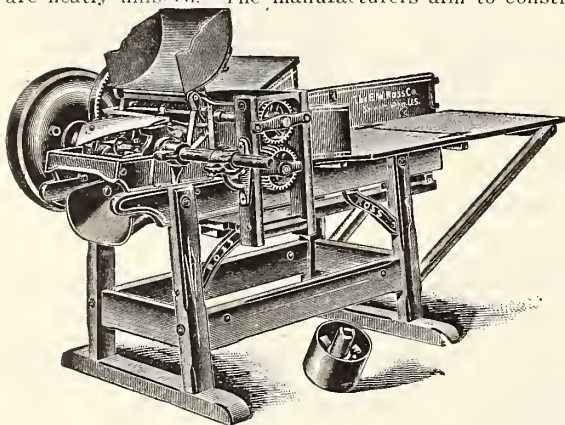
In the No. 10 Ross Cutter we are offering a very convenient machine for cutting corn fodder, hay, etc., either by hand or by power. It will be noted in addition to having a crank for hand use, it is equipped with pulley, so that it can be belted to small gasoline engine or horse power. It can be adjusted to cut ¼, ½, ¾ or 1 inch. It has two 11½-inch knives. All bearings are babbitted. The frame is of hardwood and strongly constructed. Weight, 300 pounds. **List Price, \$30.00. Retail, \$22.50.**



ROSS STANDARD HAY AND FODDER CUTTERS

The excellence of the Ross Fodder Cutters is well known. They are the result of over 50 years' experience in manufacturing this class of machinery. They are built strong and durable, possess valuable features for convenience and efficiency, and are neatly finished. The manufacturers aim to construct a line of cutters which will not only do the work, but do it so well that the buyer is sure to be pleased in every way. On account of lack of space, we cannot give a full description of the exclusive patented features possessed by the Ross Cutters, but will be pleased to mail to anyone interested in the purchase of a cutter a special catalogue of the Ross line. Will mention briefly here that some of these features are:

Very efficient feeding rolls, which are positive, and which are provided with a knuckle-joint arrangement to allow the rollers to readily adjust themselves to uneven feeding of the machine without binding or causing friction; a special comb bar for keeping the spiked roller clear; a four-sided reversible steel cutting plate; an improved type of safety flywheel; a practical and convenient knife adjustment; a special starting and stop lever, and the Ross folding feed table.



CARRIERS FOR ROSS CUTTERS

We list below two styles of carriers which can be furnished with Ross Cutters—the angle and straight carrier and the swivel carrier. These are illustrated and fully described in the Ross special catalogue.

ROSS SHREDDERS

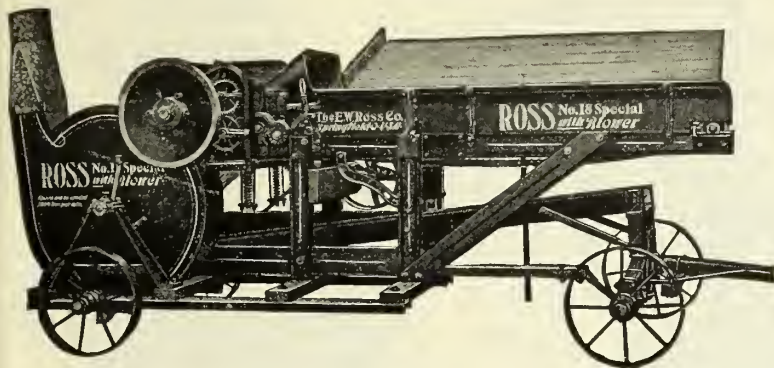
Ross machines can be furnished with either knife or shredder cylinder, as listed below.

Size.	Knives. Inches.	Capacity per Hour on 1-inch Cut.		Power Required. H.-P.	Weight. Pounds.	Price, with Either Cutter or Shredder Cylinder.		Price of 12-Foot Angle and Straight Carrier.		Price of 12-Foot Swivel Carrier.		Extra Carrier per Foot Over 12-Foot.	
		Tons. Ensilage.	Tons. Dry Fodder.			List.	Retail.	List.	Retail.	List.	Retail.	List.	Retail.
*No. 09	2—9½	8 to 10	10 Hd. Stock.	1	265	\$35.00	\$24.50	.....	.....	.....	.....	.....	.....
No. 111	4—11	3 to 4	1 to 1½	2 to 3½	425	50.00	35.00	\$34.00	\$23.80	\$38.00	\$26.60	\$1.75	\$1.25
No. 113	4—13	4 to 6	1½ to 2	2 to 5½	550	65.00	45.50	37.00	25.90	42.00	29.40	2.00	1.40
No. 116	4—16	8 to 10	2 to 3	4 to 6	650	90.00	63.00	37.00	25.90	44.00	30.80	2.00	1.40
No. 108	4—18	12 to 18	3 to 6	5 to 8	825	120.00	84.00	38.00	26.60	45.00	31.50	2.25	1.60

*No. 09 can be furnished with two flywheels for hand use. **List, \$40.00. Retail, \$28.00.**
Shredder Cylinder: If both shredder and knife cylinders are wanted, add, No. 09, **List, \$16.00. Retail, \$11.25.** No. 111, **List, \$20.00. Retail, \$14.00.** No. 113, **List, \$22.00. Retail, \$15.40.** No. 116, **List, \$24.00. Retail, \$16.80.** No. 108, **List, \$32.00. Retail, \$22.40.**

Extra Gears for 4-inch cut for No. 111, No. 113 and No. 116, **List, \$3.50. Retail, \$2.45.** No. 108, **List, \$4.00. Retail, \$2.80.**

ROSS IMPROVED ENSILAGE CUTTER WITH TRAVELING FEED TABLE AND ALL STEEL BLOWER



The improved features of this machine are steel knife hubs (not cast iron), blower made of open-hearth steel, making these parts practically indestructible. In building these machines the object is to produce the strongest and best ensilage cutter and blower in the world. In addition to the features mentioned, this machine has improved mechanism for starting, stopping and reversing the feed rolls and traveling feed. The blower is larger and of greater capacity than formerly used. The method of belting is such as guarded against choking the blower by overfeeding, and in these machines are incorporated all the well-known features of the celebrated Ross Cutters, which are fully described in the special complete cutter catalogue, which we will be pleased to mail to anyone.

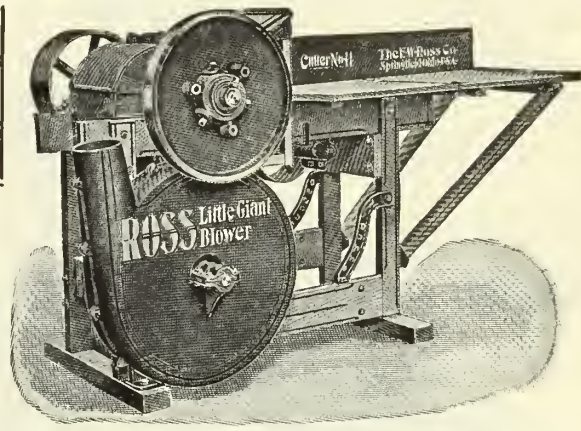
Size.	Knives.	Capacity per Hour on 1-Inch Cut. Ensilage.	Power Required.	Weight With-out Truck.	Cutter with Traveling Feed Table and Blower, not Including Blower Pipe or Elbow.		Galv. Blower Pipe, including Elbow, per Foot.		Shredder Cy-linder, Extra.			
					Pr. with Truck. List.	Pr. without Truck. Retail.	List.	Retail.	List.	Retail.		
No. 16	4—16 inch	10 to 12 tons	10 to 12 H. P.	1800 lbs.	\$260.00	\$208.00	\$210.00	\$168.00	\$.80	\$.56	\$24.00	\$19.20
No. 18	4—18 inch	15 to 18 tons	12 to 16 H. P.	2000 lbs.	290.00	232.00	240.00	192.00	.80	.56	32.00	25.60
No. 20	4—20 inch	18 to 22 tons	14 to 16 H. P.	2200 lbs.	330.00	264.00	280.00	224.00	.80	.56	40.00	32.00

Extra Gears to cut 4 inches long, with 2 knives: No. 16, List, \$7.00; Retail, \$5.60. No. 18 and No. 20, List, \$7.50; Retail, \$6.00.

ROSS TRAVELING FEED TABLE CUTTER WITHOUT BLOWER

Made in four sizes, 16-inch, 18-inch, 20-inch and 24-inch, similar to machines described above, except they have no blower attachment. At prices given is furnished with either cutter or shredder cylinder.

Size.	List	Retail
No. 16	\$120.00	\$96.00
No. 18	155.00	124.00
No. 20	225.00	180.00
No. 24	300.00	240.00



ROSS No. 11 AND No. 13 CUTTERS AND BLOWERS

These are well-built machines, with a very efficient blower with valuable features, and are very popular.

Size.	Length of Knife.	Cutter with Blower, Without Blower Pipe or Elbow.		Gal. Blower Pipe per ft., including Elbow.	
		List.	Retail.	List.	Retail.
No. 11—2 Knife	11 in.	\$95.00	\$66.50	\$.60	\$.42
No. 11—4 Knife	11 in.	100.00	70.00	.60	.42
No. 13—2 Knife	13 in.	120.00	84.00	.60	.42
No. 13—4 Knife	13 in.	125.00	87.50	.60	.42

No. 11—Capacity per hour on green corn, 1-inch cut, 4 to 6 tons; power required, 4 to 8 horse-power. No. 13—Capacity per hour on green corn, 1-inch cut, 6 to 8 tons; power required, 6 to 10 horse-power. Gears for 4-inch cut for either No. 11 or No. 13, List, \$3.50. Retail, \$2.45.

ROSS No. 40, No. 50 AND No. 60 CUTTERS AND BLOWERS

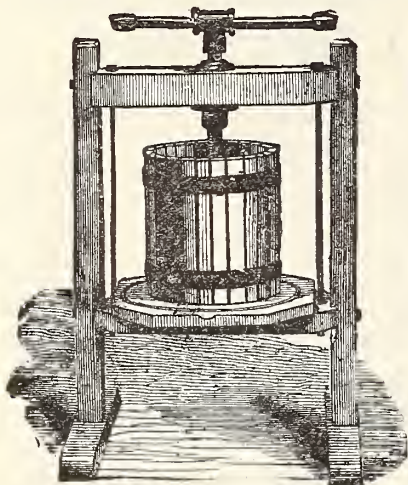


The knives on flywheel type of Ross Silo Filling Machines with Blower have made a home for themselves with all their users. This is due to the fact that they possess the required strength and features to enable them to accomplish the work of filling silos in a way that brings comment from all. Realizing the fact that users of this class of goods expect more and more each year in the line of quality and quantity of work, they possess features fully described in the special catalogue, which we will be pleased to mail, namely: Four-sider reversible steel cutting plate, positive tension to the feeding rolls, special knife adjustment, self-aligning and adjustable main shaft bearings and roller shaft bearings, extra bearings for main shaft, special balanced main frame, etc.

Size.	Throat Capacity.	Capacity per Hour on 1-Inch Cut. Ensilage.	Power Required.	Weight With-out Truck.	Cutter with Traveling Feed Table and Blower, not Including Blower Pipe or Elbow.		Galv. Blower Pipe, including Elbow, per Foot.		Two Shredder Blades and Attachments.			
					Pr. with Truck. List.	Pr. without Truck. Retail.	List.	Retail.	List.	Retail.		
No. 40	55 sq. ins.	6 to 8 tons	6 to 8 H. P.	1250 lbs.	\$239.50	\$167.65	\$184.00	\$128.80	\$.80	\$.56	\$13.25	\$9.30
No. 50	72 sq. ins.	8 to 10 tons	8 to 10 H. P.	1450 lbs.	258.50	180.95	203.00	142.10	.80	.56	13.75	9.65
No. 60	85 sq. ins.	12 to 18 tons	12 to 14 H. P.	1800 lbs.	315.50	220.85	260.00	182.00	.90	.63	14.50	10.15

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

BERRY PRESS



	List Price.	Our Spec'l Price.
No. 1, weight 50 lbs..	\$6.00	\$3.75
No. 2, weight 65 lbs..	7.50	4.50
No. 3, weight 90 lbs..	12.00	7.00

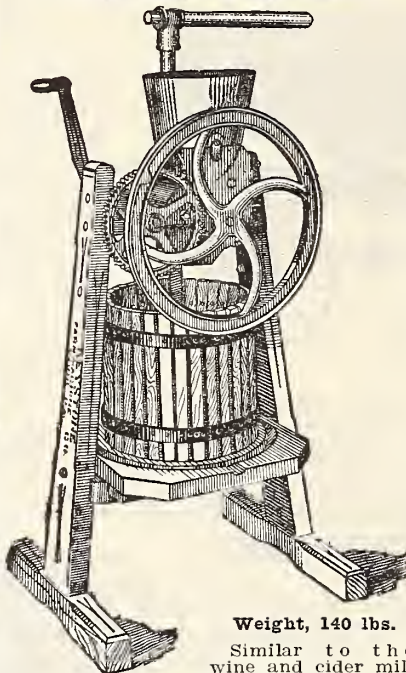
HUTCHINSON PATTERN.

WINE AND CIDER MILL

Will make from 5 to 10 gallons at a time. All of the juice of the apples can be gotten out. It is intended more for grinding grapes and other small fruit for wine, and is so constructed as not to crack the seed.

	List Price.	Our Spec'l Price.
No. 0—Single Cage Mill..	\$15.00	\$9.00
No. 1—Single Cage Mill..	16.50	10.00

BALTIMORE SPECIAL CIDER AND WINE MILL

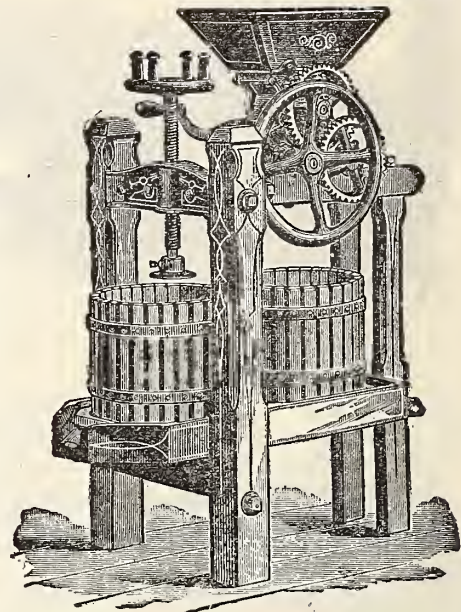


Weight, 140 lbs.

Similar to the wine and cider mill described, only it is larger and will take larger apples, and, being a geared mill, will do much more rapid work.

List Price	\$16.50
Our Special Price.....	10.00

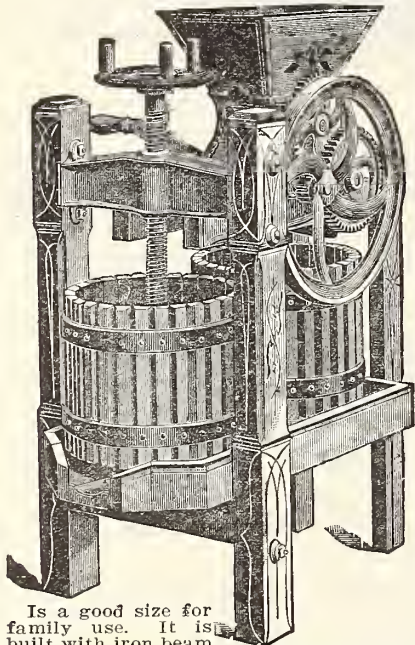
"JUNIOR" DOUBLE CAGE HAND CIDER MILL



This is a small double cage mill of good capacity, and will work in a very satisfactory manner. It is made of hardwood, and, having specially constructed grinders, gives good results. Capacity, 2 to 4 barrels of cider per day. Weight, 220 lbs.

List Price	\$21.00
Our Special Price.....	12.50

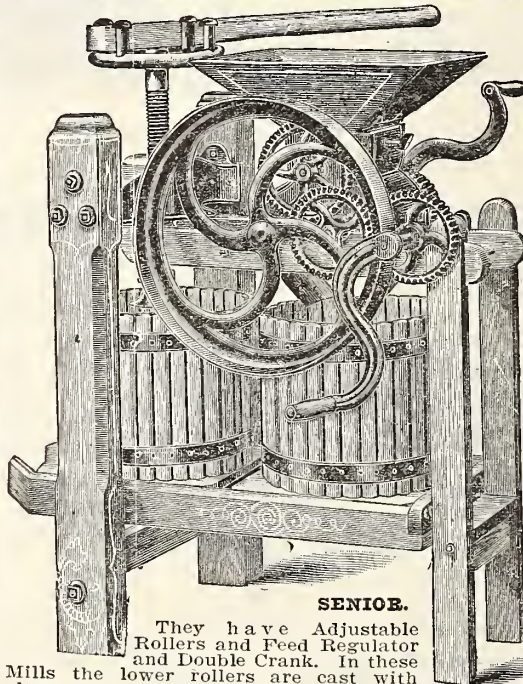
"MEDIUM" DOUBLE CAGE HAND CIDER MILL



Is a good size for family use. It is built with iron beam and heavy gearing, and is perfectly adjustable for all sizes of apples. Capacity 6 to 8 barrels of cider per day. Weight, 240 lbs.

List Price.....	\$26.00
Our Special Price.....	17.50

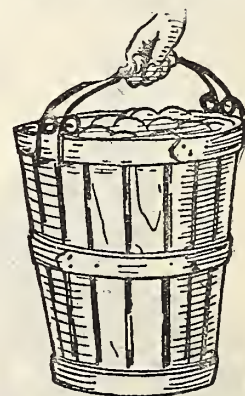
"Senior" Hand and Power Cider Mill



SENIOR.

They have Adjustable Rollers and Feed Regulator and Double Crank. In these Mills the lower rollers are cast with alternate rims and grooves interlocking to draw in the apples. Fruit is mashed between the smooth segments, thoroughly breaking all the cells so that cider is entirely extracted in press. Balance wheels are heavy and mill can be run by power. The mills are very strong. They are made of best material, nicely finished, and are easy to operate. Capacity, 6 to 12 barrels of cider per day. Weight, 475 lbs. List Price, \$35.00; Our Special Price, \$22.50.

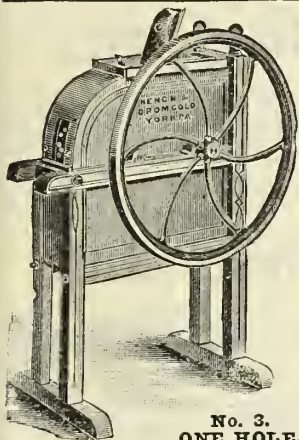
Removable Basket Handles



Easily and quickly adjusted. Saves fruit and time. Baskets carried without mashing fruit.

List Price, dozen.....	\$2.50
Our Special Price, each...	.15

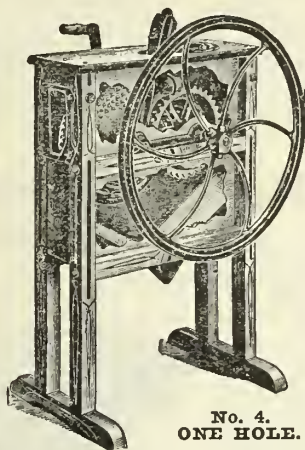
THE BALTIMORE SHELLERS



**No. 3.
ONE HOLE.**

Separates corn and cob. Fan will clean corn for market. Corn discharged beneath Sheller, cobs at end. Easily adjusted for large or small ears. Capacity, 125 bushels a day.

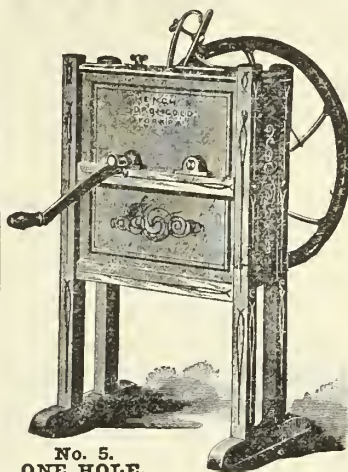
Plain, List Price, \$12.00; Our Special Price, \$7.50. With Fan, List Price, \$14.00; Our Special Price, \$8.50.



**No. 4.
ONE HOLE.**

Screens corn; side delivery; light running; strong, steel shafts. Capacity, 125 bushels a day.

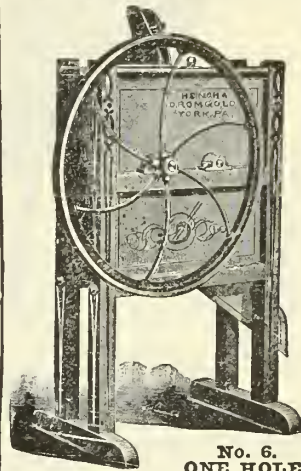
Plain, List Price, \$12.00; Our Special Price, \$7.50.



**No. 5.
ONE HOLE.**

Capacity, 125 bushels per day; single spout; left hand. Corn and cobs separated.

List Price, \$11.50; Our Special Price, \$7.00.

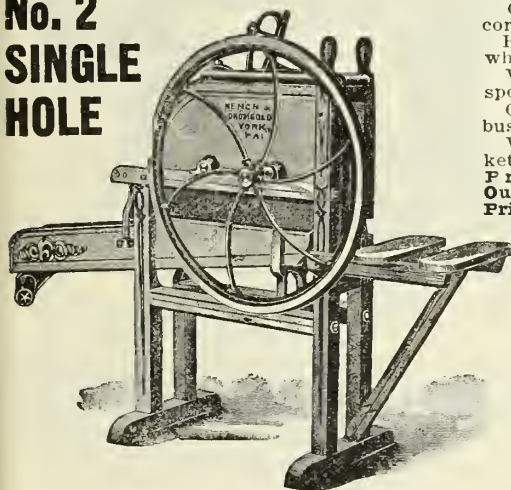


**No. 6.
ONE HOLE.**

Runs shelled corn and cobs together. Capacity, 125 bushels per day.

Plain Sheller, List Price, \$11.00; Our Special Price, \$6.50.

No. 2 SINGLE HOLE



Cleans the corn thoroughly. Heavy flywheel.

Wrought spokes.

Capacity, 125 bushels per day.

Without basket holder, List Price, \$15.00; Our Special Price, \$9.00.

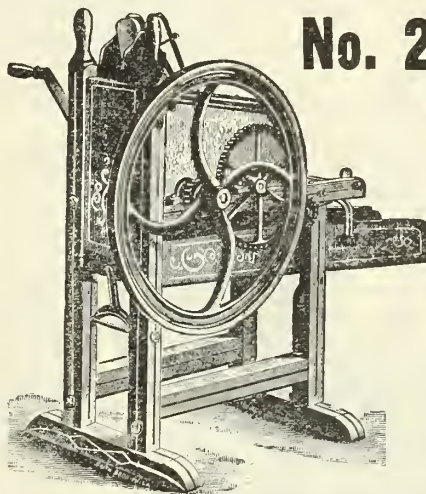
Basket Holder, extra, List Price, \$1.00.

Our Special Price, 75c.

Feed table, extra, List Price, \$1.50;

Our Special Price, \$1.00.

No. 20 Double Spout

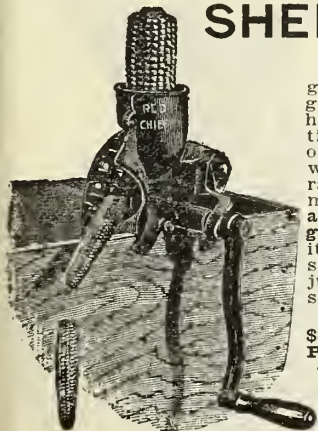


Hand and power, with shaker belt and flywheel. Capacity, 200 bushels per day. Capacity by power, 500 to 600 bushels. No 18 similar to No. 20, but without shaker and with screen at bottom to take out dust or dirt.

No. 20, with shaker, List Price, \$25.00; Our Special Price, \$15.00.

No. 18, without shaker, List Price, \$23.00; Our Special Price, \$14.00.

RED CHIEF CORN SHELLER



This sheller is guaranteed to do good work. It is heavy in construction, with patent oval shaped teeth, which are so arranged to shell more rapidly and avoid injuring the grain, thus making it safe for shelling seed corn. Adjust itself to any size ear.

List Price, doz., \$30.00; Our Special Price, each, \$1.75. Weight, 12 lbs.

"Black Hawk" Corn Sheller

Weight, 14 lbs. Shells Fast, Clean and Easily.

Black Hawk is simple, easily adjusted and will shell clean all kinds of field corn.

List Price, dozen, \$34.00; Our Special Price, Each, \$2.00.



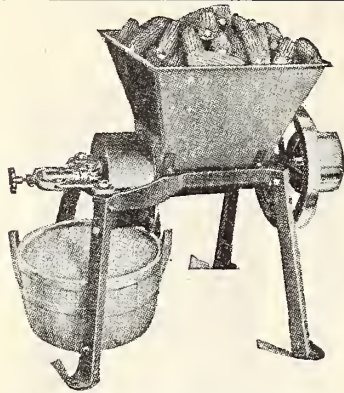
1903
BLACKHAWK
CORN SHELLER

Old Dominion Style P HAND CORN SHELLER



List Price, dozen, \$32.00; Our Special Price, each, \$2.00.

See regulating thumb-screw to set sheller for either large or small ears. Shells clean. Shells popcorn. Clamps with bolts and wrench with each machine. Chilled shaft and bearings. Weight, crated, 20 lbs.



GRITCO No. 2 GRINDING MILL

This is an excellent mill for from 2 to 5 horse-power gasoline engine, and will grind either cob corn, shelled corn, oats, and other small grains. Has heavy flywheel. Regular size pulley is 8x4. Has cold rolled steel shaft, end thrust ball-bearing, 8-inch high carbon grinding plates. A very efficient cob-crushing device, angle steel legs, babbitted shaft boxes, and is furnished with one set of fine and one set of coarse grinding plates; capacity, 8 to 25 bushels per hour; speed, 400 to 500 R. P. M.; weight, 250 pounds. **Price, \$25.00.**

GRITCO No. 3 GRINDING MILL

Same general type of mill as the Gritco No. 2, but is much larger, and has about twice the capacity. Recommended for engines from 7 to 12 horse-power. Capacity, from 20 to 40 bushels per hour; speed, 400 to 500 R. P. M.; grinding plates, 10-inch; weight, 375 pounds. **Price, \$35.00.**

THE SCIENTIFIC CORN AND COB MILLS

These mills are especially valuable for large dairy farms, stables, and for anyone doing custom work. They are provided with double breakers in bottom of hopper, which run at different rates of speed; a second breaker crusher, on main shaft, friction clutch pinion, end thrust, ball-bearing, safety breaker bar. Sizes L, N and T can be furnished with reversible self-sharpening grinding plates, which by reason of their peculiar design produce a smooth, even grade of feed or meal, which cannot be ground on plates of the usual type. They grind cob corn and every kind of small grain.

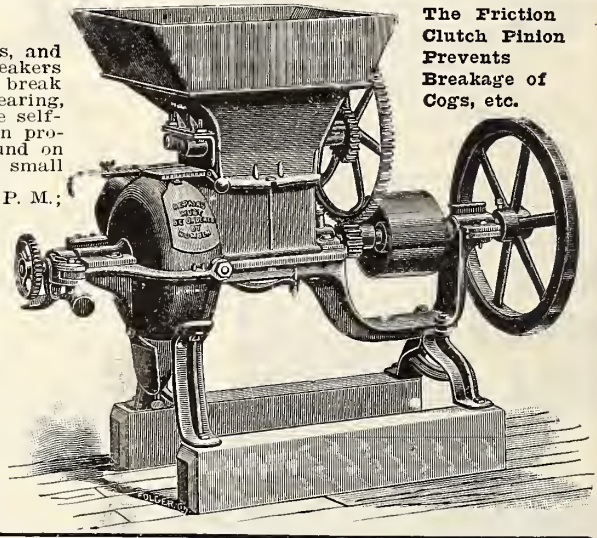
H No. 1.—Capacity, 10 to 20 bushels per hour; speed, 800 to 1000 R. P. M.; horse-power required, 6 to 8; drive pulley, 8x6; weight, 500 pounds. **Price, \$55.00.**

L No. 1.—Capacity, 20 to 40 bushels per hour; speed, 1000 to 1200 R. P. M.; horse-power required, 10 to 20; drive pulley, 8x6; weight, 550 pounds. **Price, \$65.00.**

N No. 1.—Capacity, 20 to 50 bushels per hour; speed, 900 to 1000 R. P. M.; horse-power required, 12 to 15; drive pulley, 10x8; weight, 775 pounds. **Price, \$80.00.**

T No. 1.—Capacity, 50 to 75 bushels per hour; speed, 800 to 1000 R. P. M.; horse-power required, 20 to 25; drive pulley, 14x10; weight, 1400 pounds. **Price, \$125.00.**

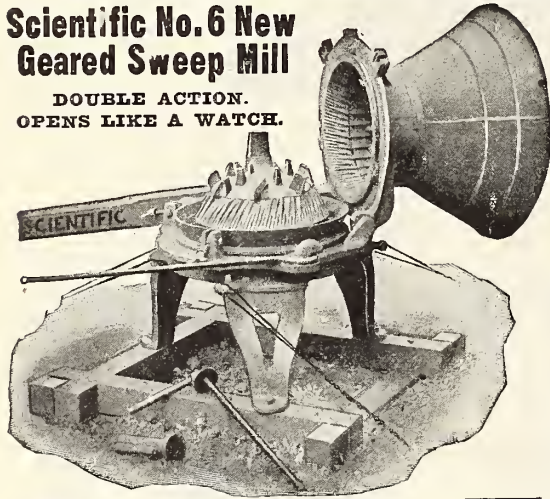
These Prices Are Subject to a Special Discount.



The Friction Clutch Pinion Prevents Breakage of Cogs, etc.

Scientific No. 6 New Geared Sweep Mill

DOUBLE ACTION.
OPENS LIKE A WATCH.



The No. 6 Scientific Mill is the most popular sweep power grinder on the market. By loosening two wing nuts without any wrench the upper part of the mill is opened up, as shown in cut, giving access to every part.

Gearing consists of three gear pinions, which revolve on independent chilled studs. Mill grinds all grains, but is especially effective and rapid on ear corn, and double-action feature, which is applied to these mills, prevents cobs lodging in hopper at end of a run. Its capacity is 10 to 15 bushels per hour. Weight of mill, 700 pounds. **Price of Mill, with extra plates and two baskets, \$32.00.**

Special Discount for Cash.

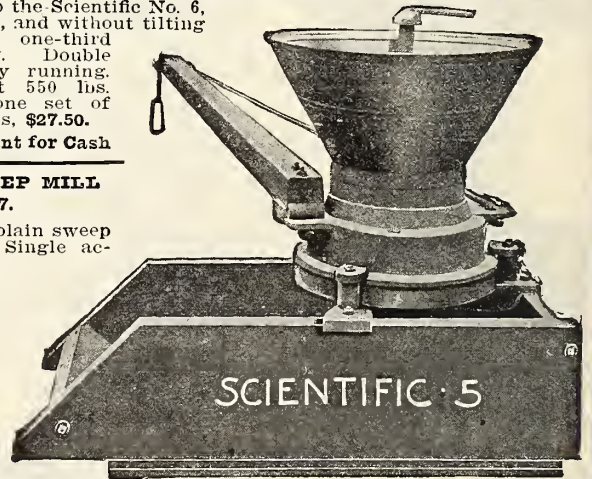
Scientific No. 5 Triple-Geared Sweep Mill

Is similar to the Scientific No. 6, except smaller, and without tilting hopper about one-third less capacity. Double action, easy running. Weighs about 550 lbs. **Price, with one set of grinding plates, \$27.50.**

Special Discount for Cash

PLAIN SWEEP MILL No. 7.

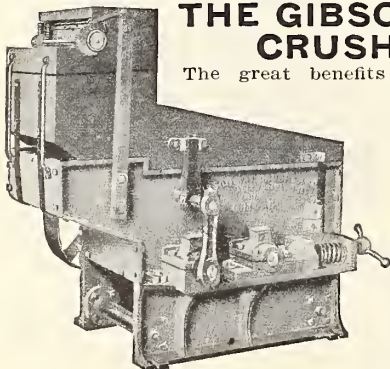
We carry a plain sweep power mill. Single action. Grinds successfully ear corn and all kinds of small grain. One or two-horse, capacity, 5 to 8 bushels per hour. Weighs 400 lbs. **Price \$20.00. Special Discount for Cash.**



SCIENTIFIC 5

THE GIBSON OAT CRUSHER

The great benefits derived from feeding oats crushed on the Gibson Oat Crusher have been clearly demonstrated. Horses are kept in better condition and a considerable saving in feed bill is effected. Write for special catalogue and prices.

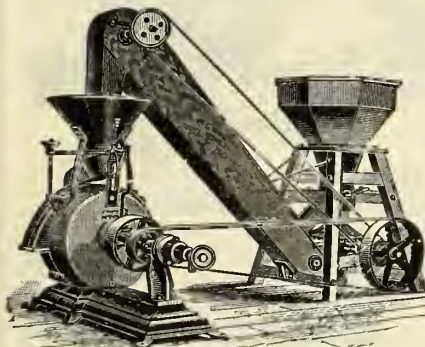


SPROUT WALDRON MONARCH FRENCH BURR MILLS, EAR CORN CRUSHERS AND COMBINED OUTFITS

Monarch French Burr Mills are made of the best material, in the best mechanical workmanlike manner, and when properly installed and operated will do their work nicely. Below will be found a table stating the capacities of the different mills, power required, etc. These mills are suitable for grinding corn and cob, shell corn, oats, barley, etc. It will pay you to write for special booklet describing them more fully.

PRICES, DIMENSIONS, CAPACITY, WEIGHT, ETC., OF MONARCH BURR MILLS:

Size of Mills Inches Diameter	Size of Pulley		Revolutions per Minute	Horse Power Required.	Weight in Pounds	Capacity per hour Feed Meal	Capacity per hour Table Meal	Floor Space Base Occupies Inches.	List Price	Our Price f. o. b. Factory	Our Price f. o. b. Baltimore.
	Diameter Inches.	Face Inches									
12	8	5	1000 to 1200	4 to 6	500	12 to 15 bu.	5 to 7 bu.	20x39	\$137.50	\$75.65	\$86.40
16	10	6	1000	6 to 10	800	20 to 25 bu.	10 to 12 bu.	22x45	180.00	99.00	112.00
20	12	8	900	10 to 15	1350	40 to 50 bu.	15 to 20 bu.	24x54	250.00	137.50	154.00
24	16	8	800	15 to 25	1800	60 to 70 bu.	20 to 25 bu.	27x57	320.00	176.00	192.00
30	20	8	750	20 to 30	2500	70 to 100 bu.	25 to 30 bu.	30x53	420.00	231.00	252.00



This illustration shows the Monarch Standard Burr Mill and Monarch Ear Corn Crusher with elevator.

MONARCH EAR CORN CRUSHERS

No. 1—30x30-inch floor space; capacity, 12 to 30 bushels corn ears per hour; weight, 350 pounds. Factory list, \$56.00. Retail, f. o. b. Factory, \$33.60; f. o. b. Baltimore, \$37.10.

No. 2—36x36-inch floor space; capacity, 40 to 90 bushels corn ears per hour; weight, 750 pounds. Factory list, \$80.00. Retail, f. o. b. Factory, \$48.00; f. o. b. Baltimore, \$52.75.

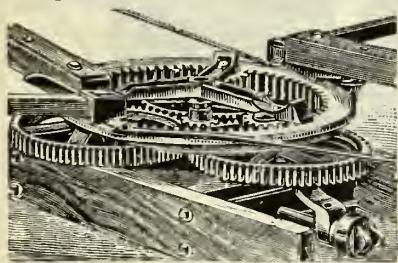
MONARCH COMBINED CORN AND COB OUTFIT

We illustrate here our Monarch Combined Outfit, for grinding either ear corn or shelled grain. The ear is first crushed in the ear corn crusher and then elevated to the hopper of the mill and is ground fine. When shelled grain is to be ground, the corn is placed directly in the hopper of the mill and the ear corn crusher and elevator need not be run. Prices of these outfits, as given below, include mill, crusher, elevator and small belts to run crusher and elevator.

PRICES MONARCH COMBINED OUTFITS.

	Floor Space.	List Price.	Our Special Price. f. o. b. Balto.
12-inch Mill, No. 1 Crusher,	86x46-inch.....	\$214.00	\$117.70
16-inch Mill, No. 1 Crusher,	90x54-inch.....	256.00	140.80
20-inch Mill, No. 2 Crusher,	104x67-inch.....	350.00	192.50

SWEEP HORSE POWER



Two Horse-power, Geared.

60-1, with two sweeps.....\$45.00
Spur Jacks..... 12.00

Gandy Canvas Stitched Belting

Made by the most improved machinery from cotton duck manufactured especially for the purpose.

List.		Retail.		List.		Retail.	
2-in., 4-ply..	.24c. ft.	12c. ft.	6-in., 4-ply..	60c. ft.	30c. ft.	3-in., 4-ply..	35c. ft.
3-in., 4-ply..	.35c. ft.	18c. ft.	6-in., 6-ply..	90c. ft.	45c. ft.	4-in., 4-ply..	.43c. ft.
4-in., 4-ply..	.43c. ft.	22c. ft.	8-in., 4-ply..	80c. ft.	40c. ft.	5-in., 4-ply..	.51c. ft.
5-in., 4-ply..	.51c. ft.	26c. ft.	8-in., 6-ply..	1.20 ft.	60c. ft.		

Prices of Other Widths and Plies to Order.

When Endless Belts are wanted add 3 feet extra for lapping.

RUBBER BELTING

List.		Retail.		List.		Retail.	
3-in., 3-ply..	.30c. ft.	17c. ft.	5-in., 3-ply..	.50c. ft.	28c. ft.	3-in., 4-ply..	.37c. ft.
3-in., 4-ply..	.40c. ft.	22c. ft.	5-in., 4-ply..	.61c. ft.	34c. ft.	4-in., 3-ply..	.40c. ft.
4-in., 3-ply..	.40c. ft.	22c. ft.	6-in., 4-ply..	.72c. ft.	40c. ft.	4-in., 4-ply..	.50c. ft.
4-in., 4-ply..	.50c. ft.	28c. ft.					

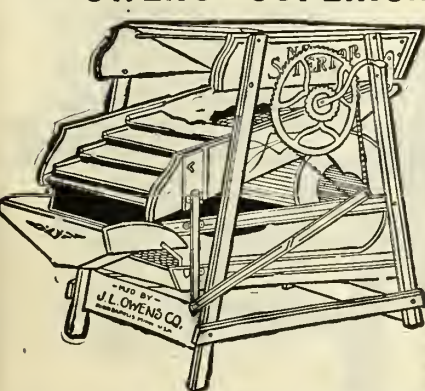
Larger and smaller sizes on application.

Cut Raw-Hide Belt Lacing



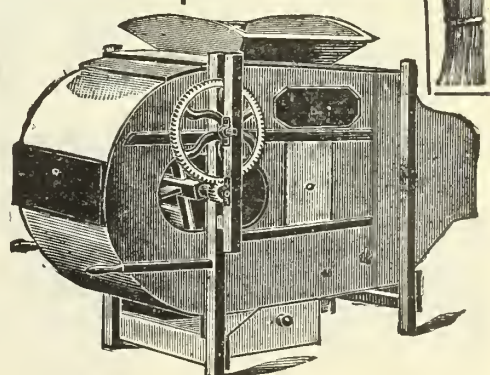
3/4-in., per 100 ft...	\$1.75
1/2-in., per 100 ft...	2.25
5/8-in., per 100 ft...	3.00
3/4-in., per 100 ft...	3.75

OWENS' SUPERIOR FANNING MILL



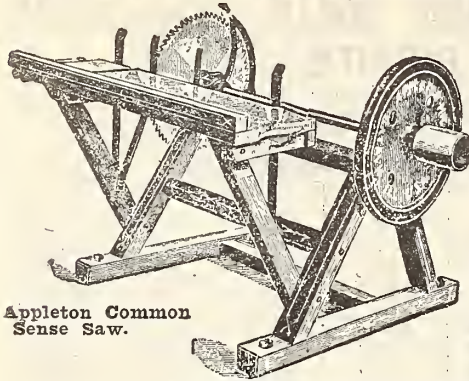
No. 1—Width Sieves, 21 Inches; Weight, 175 lbs.; Price.....\$25.00
No. 2—Width Sieves, 32 inches; Weight, 230 lbs.; Price..... 30.00
Weight Bagging Attachment, 50 lbs.; Price..... 7.50

Baltimore Improved Grain Fan



Will clean from 60 to 100 bushels per hour. Made of best material and finished in a neat and tasty manner. Price.....\$22.00
Sieves, each, \$1.50. Screens, each, \$1.50.

WOOD SAWS



Appleton Common Sense Saw.

We offer two lines of Saw Frames, the **Appleton Frames**, generally recognized as the best saw frames on the market, which are made of heavy hardwood, mortised and tenoned throughout and fitted with patent dust-proof self-aligning babbitted boxes, and are celebrated for their rigidity and durability, and the **Gritco Saw Frames**, made strong with heavy mandrel, with large, well-babbitted boxes.

COMMON SENSE TILTING TABLE WOOD SAW.

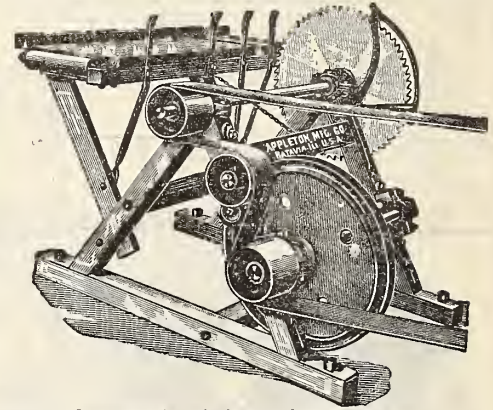
The most popular style for sawing cord wood. Pulley, 6x6 inches. Speed, 1000 to 1500 R. P. M. Weight, 208 pounds.

- Without Saw Blade.....\$19.00
- With 22-inch Saw..... 24.20
- With 24-inch Saw..... 25.10
- With 26-inch Saw..... 26.20
- With 28-inch Saw..... 27.35
- With 30-inch Saw..... 28.50

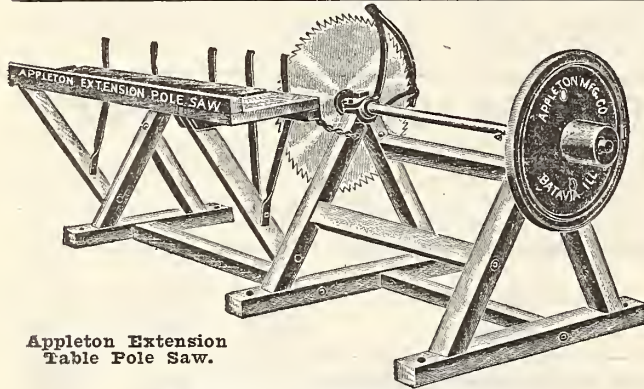
NEW STYLE TILTING TABLE POLE SAW.

A very popular style for sawing long logs. Requires more power to operate than either of the styles mentioned above. Pulley, 6x6 inches. Speed, 1200 to 2000 R. P. M. Weight, 403 pounds.

- Without Saw Blade.....\$27.50
- With 24-inch Saw..... 33.60
- With 26-inch Saw..... 34.70
- With 28-inch Saw.....\$35.85
- With 30-inch Saw..... 37.00



New Style Tilting Table Pole Saw.



Appleton Extension Table Pole Saw.

EXTENSION TABLE POLE SAWS.

As cut shows, the feed table of this frame is a little longer than regular and is arranged so that long sticks can be handled on it. Pulley, 6x6 inches. Speed, 1000 to 1500 R. P. M. Weight, 354 pounds.

- Without Saw.....\$22.00
- With 24-inch Saw.... 28.10
- With 26-inch Saw.... 29.20
- With 28-inch Saw.....\$30.35
- With 30-inch Saw..... 31.50

See Page 131 for Prices of Saws.

APPLETON SLIDE TABLE SAW.

The sliding table has improved anti-friction iron rollers which slide very easily and with the minimum amount of friction over a metal track bolted to the frame. Pulley, 6x6 inches. Speed, 1000 to 1500 R. P. M. Weight, 370 pounds.

- Without Saw Blade.....\$24.00
- With 22-inch Saw..... 29.20
- With 24-inch Saw..... 30.10
- With 26-inch Saw.....\$31.20
- With 28-inch Saw..... 32.35
- With 30-inch Saw..... 33.50

Gritco No. 3 Wood Saw.

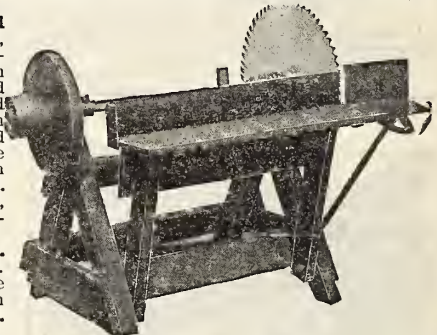
A strong, well-designed, convenient frame, with heavy mandrel and balance wheel, and now equipped with an improved guard for saw. Frame only, \$16.50. With 22-inch Saw, \$21.70. With 24-inch Saw, \$22.60. With 26-inch Saw, \$23.70.

Gritco No. 4 Saw. Similar to Ext. Table Saw. Frame only, \$20.00. With 24-inch Saw, \$26.10. With 26-inch Saw, \$27.20.

Gritco No. 5 Saw.—Similar to New Style Pole Saw. Frame only, \$22.50. With 24-inch Saw, \$28.60. With 26-inch Saw, \$29.70.

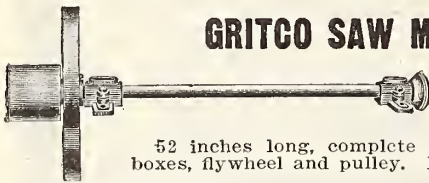
Gritco No. 6 Sliding Table Saw.—Frame only, \$20.00. With 24-inch Blade, \$26.10. With 26-inch Blade, \$27.20.

Rip Table Attachment for Gritco Saw Frame, \$4.00.



Gritco No. 3 Saw.

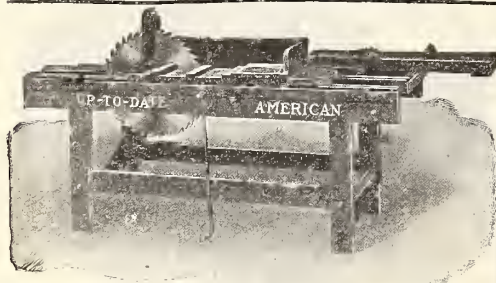
Gritco Saw Mandrels



52 inches long, complete with large babbitted boxes, flywheel and pulley. Price, \$11.00.

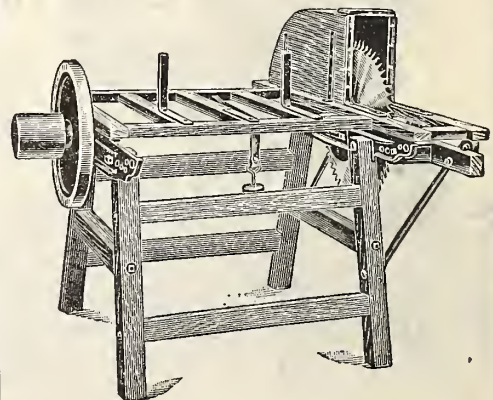
"AMERICAN" SAW MILLS.

On account of lack of space, we are unable to illustrate and fully describe here the American Saw Mills. We offer these as the easiest handled and lightest running line of saw mills that is made. It will pay anyone considering the purchase of a saw mill to write to us for complete illustrated catalogue, which we will be pleased to send on application.



"Up-to-Date" Shingle Machine

Reliable low price shingle machine for small operators. Requires from 4 to 8 H. P. Does not require an experienced operator. 5000 to 10,000 shingles per day. 24-inch shingle saw, 8-inch edging saw With edger, \$85.00; without edger, \$75.00

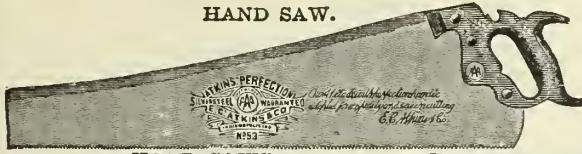


Gritco No. 6 Slide Table Saw.

- Gant Hooks, No. 318B—2½ in. x 4 ft. Price.....\$1.25
- Gant Hooks, No. 318B—2½ in. x 4½ ft. Price..... 1.50
- Peavies, No. 9—2¼ in. x 5 ft. Price..... 1.75

ATKINS' CELEBRATED SAWS

HAND SAW.



HAND SAWS.

No. 38—American straight back; plate on handle. Our special price, 75c. each.
 No. 59—Sheffield Saw Works. Skew back; beech handle; polished edge, 7 to 9 points. Factory list price, \$14.00 per doz. Our special price, \$1.00 each.
 No. 54—Silver steel; beech handle; straight back; polished edge, 7 to 9 points. Factory list price, \$22.00 per dozen. Our special price, \$1.50 each.
 No. 53—Silver steel, skew back; carved and polished apple handle, with Atkins' perfection handle. Factory list price, \$25.50 per dozen. Our special price, \$1.75 each. **Special Prices in Quantities.**

PRUNING SAW.



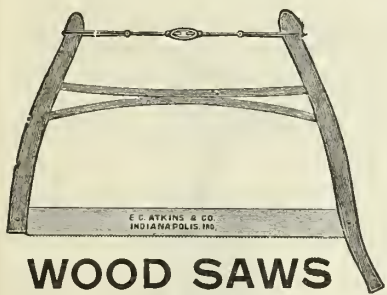
PRUNING SAWS.

No. 2 Duplex Pruning Saws.
 16-inch. Our special price.. 85c.
 18-inch. Our special price.. 75c.
 20-inch. Our special price.. 85c.

ONE MAN CROSS-CUT SAW, American Tooth.
 3 ft., \$1.50; 3½ ft., \$1.75; 4 ft., \$2.00; 4½ ft., \$2.25. **Special Prices in Quantities.**

Gritco Cross-Cut Saws, Narrow American.

NARROW AMERICAN.
 5 ft.—Our special price.....\$1.30
 5½ ft.—Our special price..... 1.40
 6 ft.—Our special price.....\$1.60
Price of Cross-Cut Saws is Without Handle. Climax Handles, 15c. per Pair.



WOOD SAWS

No. 617—Wood brace frame; single rivet; painted red; plain tooth; breasted blade; 2¼ inches wide. Our special price, 60c.
 No. 523—Wood brace frame; single rivet; selected stock; high finish; painted red; jumbo rod tinned; Tuttle tooth; breasted blade, 2¼ inches wide. Our special price, 75c.
 No. 823—Cantilever frame; selected maple stock; fine natural wood finish; jumbo rod tinned; Tuttle tooth blade breasted, 2¼ inches wide. Our special price, \$1.00.

Wood Saw Bucks, 35c.



GRITCO CROSS-CUT SAWS, WIDE BACK, AMERICAN.

Wide American Tooth, Silver Steel, 5, 5½ and 6 Feet. Gauge, 14x16.
 Factory list price, 5 ft.....\$2.30
 Factory list price, 5½ ft..... 2.54
 Factory list price, 6 ft..... 2.76
Our Special Price..... \$2.00
Our Special Price..... 2.25
Our Special Price..... 2.50
Tuttle Tooth, Cast Steel, Gauge, 14x16.
 Factory list price, 5 ft.....\$2.30
 Factory list price, 5½ ft..... 2.54
 Factory list price, 6 ft..... 2.76
Our Special Price..... \$2.00
Our Special Price..... 2.25
Our Special Price..... 2.50
Special Prices in Quantities. Price of Cross-Cut Saws is Without Handle.



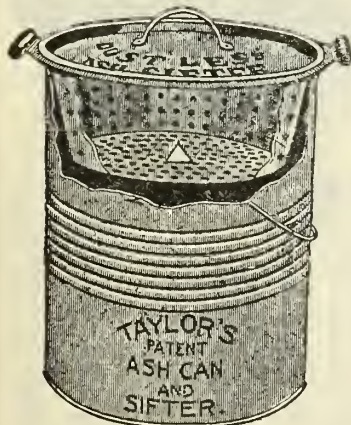
GRITCO CIRCULAR SAWS

These Saws are the result of over 50 years' study and experience. Absolutely the best steel is invariably used and each blade is given a tough, even temper and perfect tension, all of which is essential to the successful running of the saw. The workmanship of these blades is unequalled. The prices given are for saws sharpened and set. We send blades with 1½-inch hole on 24-inch and 26-inch, and 1½-inch on 28-inch and 30-inch.

	List Price.	Retail Price.
22-inch, No. 12 gauge.....	\$11.50	\$5.20
24-inch, No. 11 gauge.....	13.50	6.10
26-inch, No. 11 gauge.....	16.00	7.20
28-inch, No. 10 gauge.....	18.50	8.35
30-inch, No. 10 gauge.....	21.00	9.50

Saw Mandrels.—Write for Special Circular of Sizes and Prices.

DUST PROOF COAL ASH SIFTER AND CAN



This is the most complete dust-less coal ash sifter on the market. You can take the ashes from the furnace or stove and put them in the can, which does the sifting without the least dust. They are made of heavy galvanized iron, which will stand hard usage.

No.	Diam. Ins.	Ht. Ins.	Wt. Lbs.	Price.
1	14	14	8¼	\$2.50
2	14	17	9¼	2.75
3	14	20	10¼	3.00
12	14	18	18	4.00
14	17	26	28	5.50
24	17	26	30	6.25
34	17	26	31	6.75

MONITOR ASH CANS

Galvanized.



No.	Cap. Gals.	Prices.
2½	10	\$2.00
3	17½	2.25
4	22½	2.50

Covers for Cans—2½, 30c.; 3, 40c.; 4, 50c.
 The prices of cans do not include covers.

GARBAGE CANS

Galvanized.

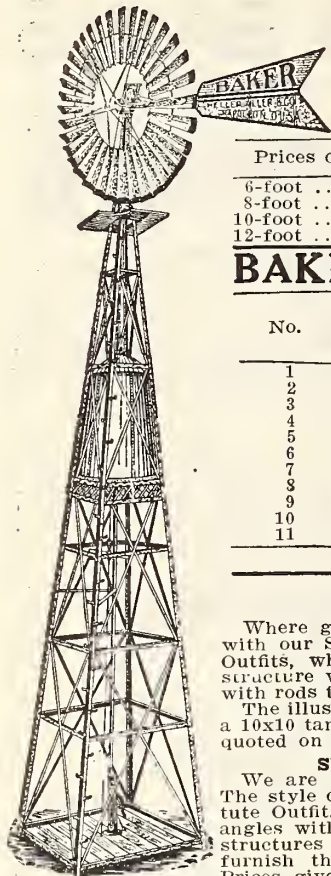


No.	Cap. Gals.	Prices.
00	5¼	\$0.80
02	6¼	.90
03	8¾	1.05
04	10¾	1.25

These prices include covers.

BAKER WINDMILLS AND TOWERS

Baker Windmills and Towers fairly bristle with good points. Lack of space keeps us from describing them here, but we will be pleased to mail a descriptive catalogue to any one contemplating the purchase of a windmill. If you are going to buy a windmill, be sure to buy THE BAKER.



Prices of Baker Windmills.		Prices of Baker Four-Post Towers.					
		Height:—					
		30 ft.	40 ft.	50 ft.	60 ft.	70 ft.	
6-foot	\$37.00	For 6-ft. Mill.....	\$41.50	\$60.00	\$77.75		
8-foot	44.00	For 8-ft. Mill.....	41.50	60.00	77.75		
10-foot	59.40	For 10-ft. Mill.....	46.00	66.00	88.00	\$115.00	
12-foot	109.00	For 12-ft. Mill.....	59.00	83.00	114.00	151.00	
						197.00	

BAKER SUBURBAN OUTFIT

Prices do not include Mill. Add to list for 8-ft. Mill, \$44.00; for 10-ft. Mill, \$59.40.

No.	Height of Tower.	Elevation Bottom of Tank.	Capacity of Tank, Bbls.	List Price with 2-in. Cypress Tank.	List Price with 2-in. Pine or 1½-in. Cypress Tank.	List Price with Galvanized Steel Tank.
1	30 ft.	7 ft. 8 in.	16	\$115.00	\$108.00	\$100.00
2	35 ft.	12 ft. 1 in.	16	120.00	112.00	105.00
3	35 ft.	14 ft.	11	115.00	107.00	100.00
4	40 ft.	19 ft. 6 in.	16	140.00	132.00	120.00
5	50 ft.	19 ft. 6 in.	38	180.00	172.00	165.00
6	50 ft.	26 ft.	20	165.00	158.00	150.00
7	50 ft.	19 ft. 6 in.	32	175.00	168.00	160.00
8	60 ft.	30 ft.	27	205.00	198.00	190.00
9	60 ft.	30 ft.	32	210.00	200.00	195.00
10	60 ft.	19 ft. ½ in.	52	230.00	215.00	205.00
11	60 ft.	19 ft. ½ in.	64	240.00	230.00	220.00

LIBERAL DISCOUNT ON WINDMILLS, TOWERS AND SUBURBAN OUTFITS.

INSTITUTE OUTFITS

Where greater storage or higher pressure than can be obtained with our Suburban Outfits is wanted, we recommend the Institute Outfits, which consist of tank erected on our regular steel sub-structure with windmill and tower anchored to the bottom of tank with rods through to the heavy caps of platform.

The illustration of Institute Outfit shows the 40-foot sub-structure, a 10x10 tank and windmill on 25-foot tower. Prices on these outfits quoted on application.

SUB-STRUCTURES FOR ELEVATING TANKS.

We are offering a good line of angle steel tank sub-structures. The style of these structures is shown by the illustration of Institute Outfit. Prices of these structures as given below include cap angles with foundation rods and plates. We recommend that these structures be erected on concrete or masonry piers, although we can furnish the smaller sizes with anchor plates and anchor posts. Prices given are for galvanized structures, and painted structures can be furnished at a lower price.

Vertical Height.	For 6x6 ft. Tank.		For 7x7 ft. Tank.		For 8x8 ft. Tank.	
	Weight.	Price.	Weight.	Price.	Weight.	Price.
12 feet.....	540	\$47.00	630	\$54.00	800	\$68.00
15 feet.....	600	52.00	700	60.00	880	79.00
20 feet.....	730	67.00	930	79.00	1160	98.00
25 feet.....	950	81.00	1120	94.00	1370	115.00
30 feet.....	1140	98.00	1370	115.00	1660	141.00
34 feet.....	1330	113.00	1560	130.00	1880	154.00
39 feet.....	1530	131.00	1820	151.00	2150	179.00
Steel Beams for under tank..	190	16.00	260	22.00	540	44.00
18" Walkway and Hand Rail..	500	49.00	530	52.00	640	62.00
Steel outside Tank Ladder..	50	5.00	50	5.00	60	5.80
Cypress inside Tank Ladder..	50	2.00	60	2.00	70	2.70

Liberal Discount on Sub-structures.
Wood Tanks for use with these structures listed on page 136.
Larger sizes on application.



Fig. 241. GALVANIZED NIPPLES

Size, inches.....	¼	½	¾	1	1¼	1½	2	2½	3
Close or Short. Price, each.	4	4	4	4	5	6	7	10	22
Long. 2½ to 4 in. Price, ea.	4	5	5	5	6	8	10	12	16
									30
									44

GALVANIZED MALLEABLE PIPE FITTINGS

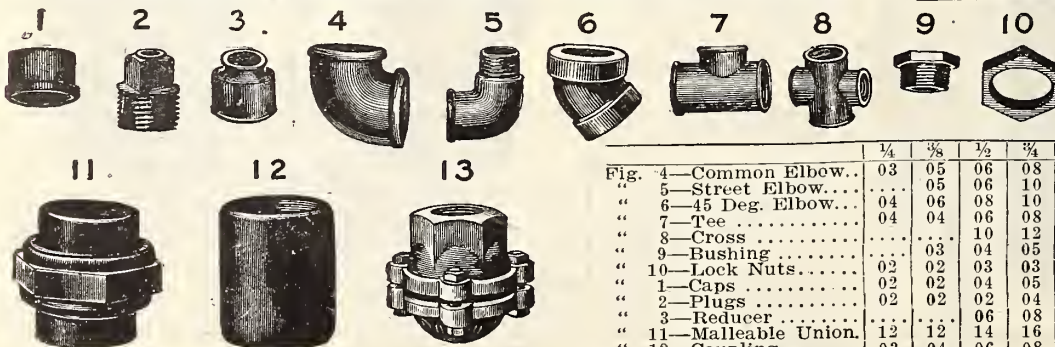


Fig.	¼	¾	½	¾	1	1¼	1½	2	2½
4—Common Elbow.....	03	05	06	08	12	15	20	28	44
5—Street Elbow.....	05	06	10	12	18	26	42	.....	.....
6—45 Deg. Elbow.....	04	06	08	10	14	18	28	45	.....
7—Tee.....	04	04	06	08	12	15	21	36	60
8—Cross.....	.....	10	12	18	24	36	60	110	.....
9—Bushings.....	03	04	05	06	07	09	13	20	.....
10—Lock Nuts.....	02	02	03	03	04	05	07	10	18
1—Caps.....	02	02	04	05	07	10	15	20	28
2—Plugs.....	02	02	02	04	05	06	07	10	15
3—Reducer.....	.....	06	08	15	18	22	30	48	.....
11—Malleable Union.....	12	12	14	16	20	28	36	46	94
12—Coupling.....	03	04	06	08	10	12	16	18	25
13—Foot Valve.....	.....	.....	.....	.....	40	50	60	75	.....

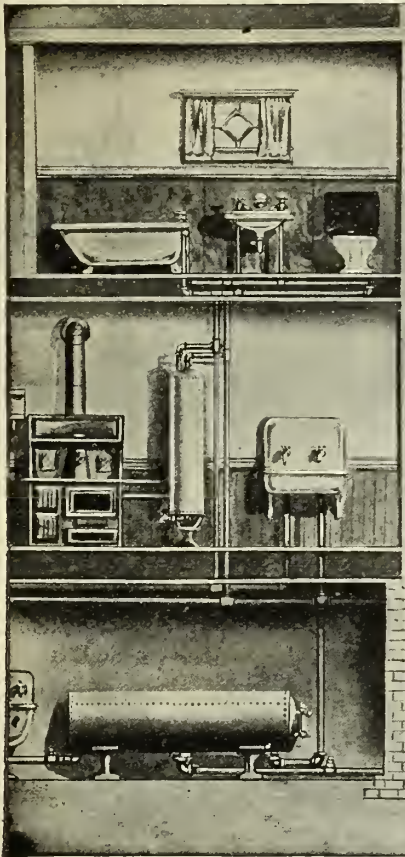
G. & T. Invincible Pneumatic Water Supply Outfits

The Pneumatic Tank is rapidly taking the place of the elevated tank for the storage of water in suburban and country homes. The Pneumatic Tank possesses many advantages, such as freedom from freezing, the fire protection afforded, etc., which are more fully explained in our special circular which we will mail free to any one interested. We have these outfits ranging in price from \$47.50 up. Or we can supply the tanks only, to be used in connection with the pump our customer may already have. These tanks can be used in connection with hand pumps, windmills, gasoline engines or electric motors. We will be pleased to send full information and make special estimate to any one considering the installation of a water supply outfit. Do not fail to investigate this system.

LIST OF INVINCIBLE TANKS.

Diam. in In.	Length in Ft.	Weight	Cap'y. in Gals.	List Price.	Our Price.
24	5	425	120	\$55.00	\$29.70
24	6	445	145	58.00	31.32
24	7	510	176	63.00	34.02
24	8	560	195	68.00	36.72
24	10	675	247	74.00	39.96
30	5	495	180	64.00	34.56
30	6	560	220	70.00	37.80
30	7	625	255	75.00	40.50
30	8	700	295	88.00	47.52
30	10	870	365	102.00	55.08
30	12	900	440	115.00	62.10
36	5	675	265	85.00	45.90
36	6	750	315	92.00	49.68
36	7	825	365	102.00	55.08
36	8	900	420	112.00	60.48
36	10	1050	525	131.00	70.74
36	12	1200	630	141.00	76.14
36	14	1400	735	148.00	79.92
42	8	1450	575	135.00	72.90
42	10	1650	720	150.00	81.00
42	12	1900	865	196.00	105.84
42	14	2200	1000	219.00	118.26
42	16	2400	1150	236.00	127.44
48	12	2320	1130	250.00	135.00
48	14	2610	1300	274.00	147.96
48	16	2900	1500	304.00	164.16
48	18	3600	1700	351.00	179.54
48	20	3950	1830	393.00	212.22
48	24	4650	2260	437.00	235.98

Write for Information Blank, which will enable you to state your requirements clearly.



Invincible Horizontal Tank and Gould's Deep Well Pump.

Price List of Invincible Hand Outfits

- No. A1—For shallow wells and cisterns where level water is not more than 20 vertical feet below pump. Price includes pump, valves and fittings shown in cut, but does not include suction pipe. 24"x6' tank, total capacity, 145 gallons; working capacity, 90 gallons. List Price, \$65.00; Our Special Price, \$52.50.
- No. A2—Same Outfit with 30"x6' Tank. List Price, \$75.00; Our Special Price, \$62.50.
- No. A3—Same Outfit with 36"x6' Tank. List Price, \$90.00; Our Special Price, \$72.50.
- No. B1—The Tank used with this Outfit is set horizontal and the same shallow well pump and fittings are used as with the No. A1 Outfit with 30"x8' Tank. List Price, \$90.00; Our Special Price, \$72.50.
- No. B2—Same as No. B1, but with 30"x10' Tank. List Price, \$100.00; Our Special Price, \$80.00.
- No. B3—Same as No. B1, but with 36"x8' Tank. List Price, \$105.00; Our Special Price, \$94.00.

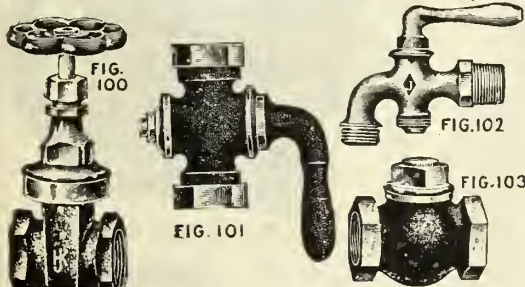
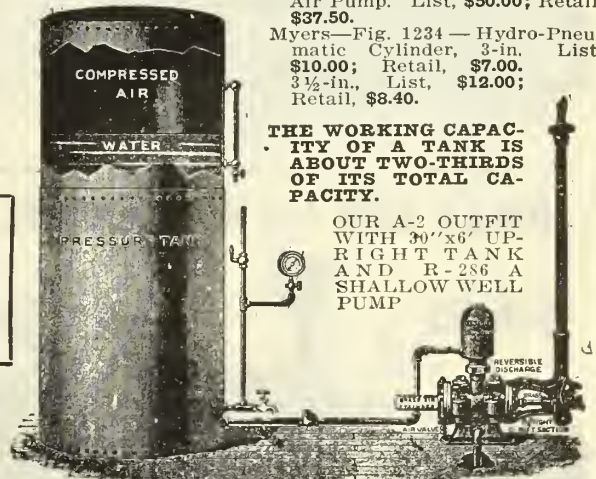
The heads of the above tank 36x14", and smaller are 5-16" thick and shells 3-16" thick. Tanks from 42"x8' to 48"x24' have heads 3/8" thick and shells 1/4" thick.

- Manheads \$10.00 extra, net.
- Water Gauge, extra list, \$2.50. Our price, \$1.50.
- Pressure Gauge, extra list, \$3.00. Our price, \$1.80.
- All Tanks tested to 125 pounds air pressure.
- Larger sizes on application.
- Fig. 1210—Single Cylinder Hand Air Compressor. List, \$10.00; Retail, \$6.75.
- No. 18—Double Cylinder Hand Air Pump. List, \$20.00; Retail, \$12.00.

- No. 1 CF—Single Cylinder Power Air Pump. List, \$50.00; Retail, \$37.50.
- Myers—Fig. 1234—Hydro-Pneumatic Cylinder, 3-in. List, \$10.00; Retail, \$7.00.
- 3 1/2-in., List, \$12.00; Retail, \$8.40.

THE WORKING CAPACITY OF A TANK IS ABOUT TWO-THIRDS OF ITS TOTAL CAPACITY.

OUR A-2 OUTFIT WITH 30"x6' UPRIGHT TANK AND R-286 A SHALLOW WELL PUMP



PRICES ON POWER OUTFITS AND OUTFITS FOR DEEP WELLS QUOTED ON APPLICATION.

BRASS VALVES, ETC.

	1/4"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
Globe Valves.....	\$0.40	\$0.60	\$0.75	\$1.00	\$1.25	\$1.75	\$2.50
Gate Valves (Fig. 100).....	.50	.60	.75	1.00	1.50	2.00	3.00
Angle Valves.....	.40	.60	.75	1.00	1.25	1.75	2.75
Horizontal Check Valves (Fig. 103).....	.40	.55	.65	1.00	1.25	1.75	2.75
Vertical Check Valves.....	.45	.60	.75	1.00	1.25	1.75	2.75
Three Way Cock.....		1.50	1.80	2.25	3.50	4.25	6.00
Lever Handle Stop (Fig. 101).....		.60	1.10	1.50	2.25	3.50	6.00
Lever Handle Stop and Waste.....		.75	1.25	1.65	2.75	3.75	6.40
Compression Hose Bibbs.....		.60	1.00	1.75	.....	.....	.....
Lever Handle Hose Bibb Cocks (Fig. 102).....		.90	1.25	1.90	3.25	.....	.....
Lever Handle, Plain Bibb Cocks.....		.80	1.15	1.60	2.75	.....	.....

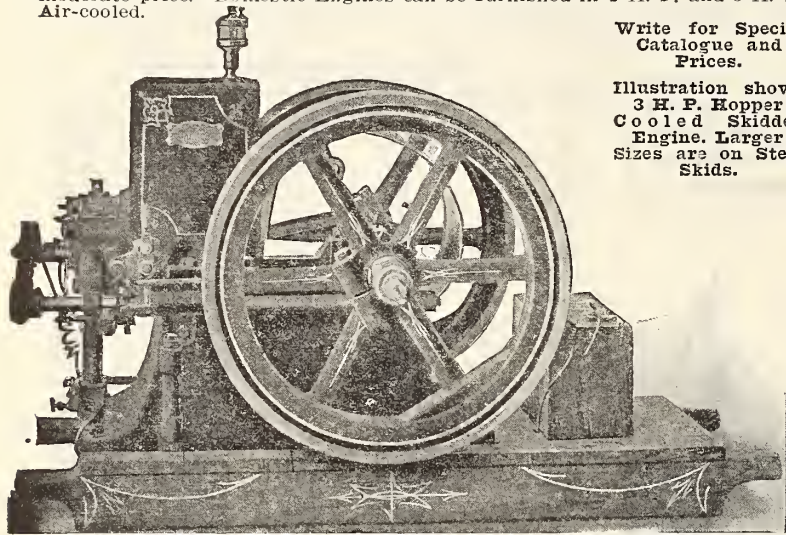
ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

DOMESTIC HOPPER-COOLED ENGINES

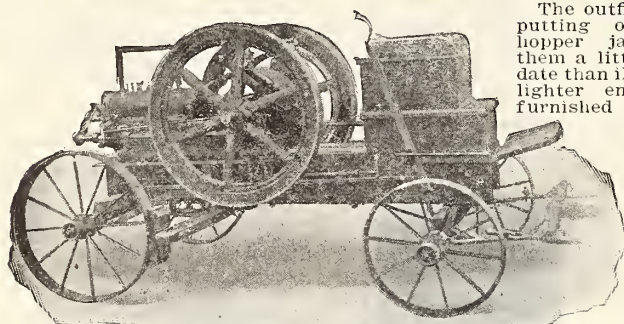
We show here some styles of the well-known Domestic Gasoline Engines. We will be pleased to mail anyone contemplating the purchase of an engine a special catalogue describing the line fully. The Domestic Engine is not a cheap trappy affair, but is designed in accordance with the modern ideas of gasoline engine construction, of the best material by high-class skilled mechanics, and the result is a thoroughly dependable engine at a moderate price. Domestic Engines can be furnished in 2 H. P. and 3 H. P. Air-cooled.

Write for Special Catalogue and Prices.

Illustration shows 3 H. P. Hopper Cooled Skidded Engine. Larger Sizes are on Steel Skids.



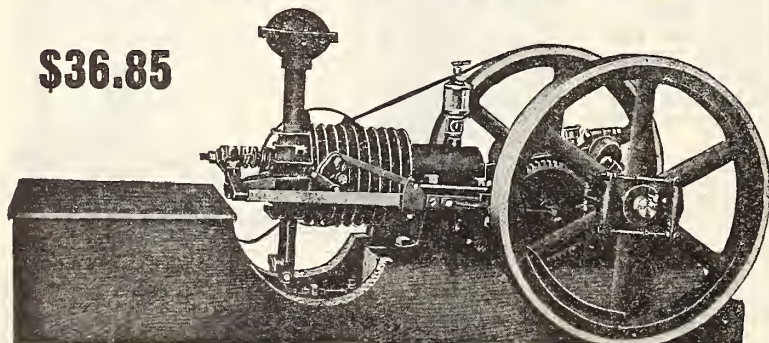
DOMESTIC PORTABLE ENGINES



The outfits we are now putting out have the hopper jacket, making them a little more up to date than illustrated. The lighter engines can be furnished on one-horse truck if so desired. We are also prepared to furnish portable wood-sawing outfits, and will quote prices and mail circulars on application.

BULLY BOY 1 1/2 H. P. ENGINE, AIR COOLED

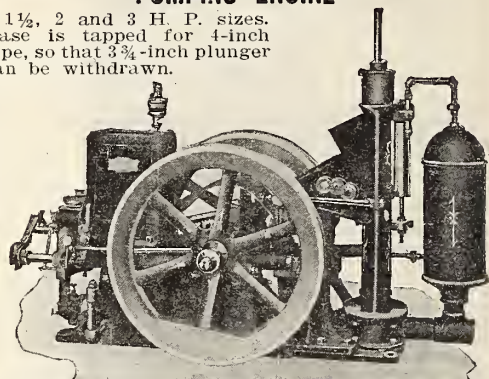
\$36.85



Designed especially for close regulation of speed, economy in fuel, reliability in operation; durable and simple, combining the lowest possible cost in construction with the highest degree of mechanical perfection. Horse-power, 1 1/2; feed suction; speed, 350 to 500 revolutions; cylinder, 3 3/4 x 5; flywheel, 18 inches in diameter; ignition, make and break; floor space, 24x48. Being carefully designed to meet the requirements of unskilled power users.

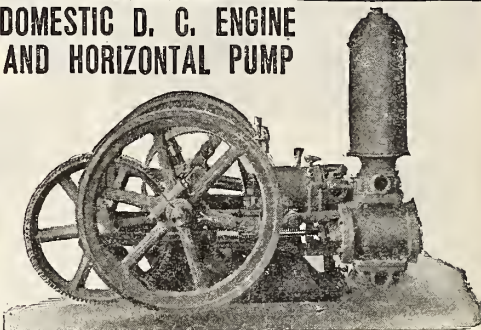
DOMESTIC DIRECT CONNECTED DEEP-WELL PUMPING ENGINE

1 1/2, 2 and 3 H. P. sizes. Base is tapped for 4-inch pipe, so that 3 3/4-inch plunger can be withdrawn.



It is an ideal outfit for artesian wells or for deep dug wells. It is largely used in connection with compressed air water supply outfits. A cog gear handle attachment can be furnished with this outfit. An auxiliary air pump can be furnished for pneumatic tank work.

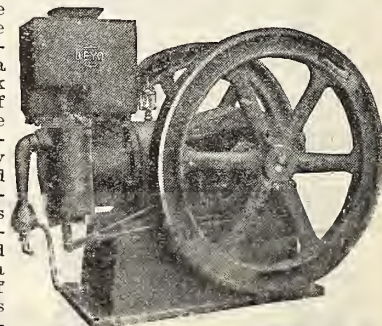
DOMESTIC D. C. ENGINE AND HORIZONTAL PUMP



For use in shallow wells, springs or streams. A compact and powerful equipment. Made in 1 1/2, 2 and 3 H. P. The cut shows this engine with plain cylinder, but we are now furnishing all of them with hopper cylinder, same as illustrated on the deep well pumper. Special catalogue and prices on application.

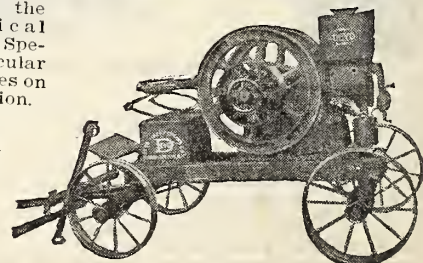
DEYO ENGINES

In the Deyo Engine we are offering a jump spark engine of high grade construction, very simple and very efficient. It is nicely balanced, and possesses a number of features which recommend them to the practical buyer. Special circular and prices on application.



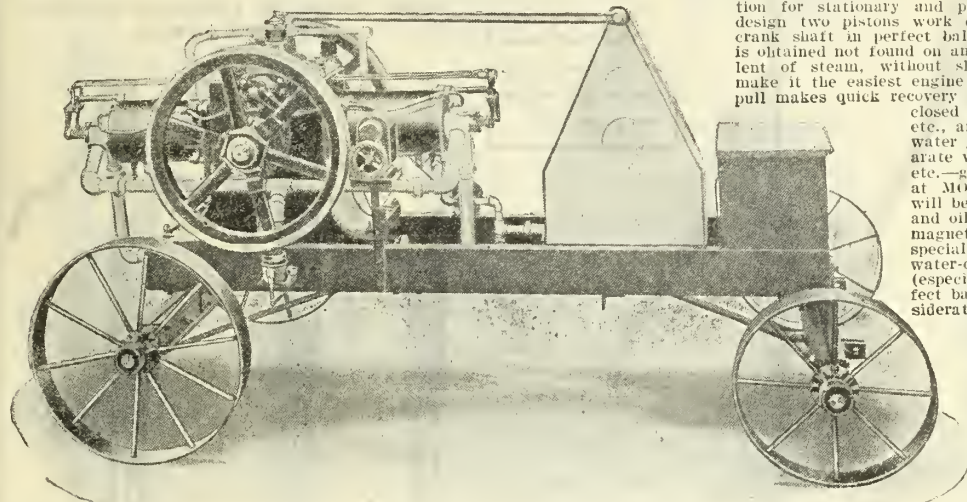
Deyo Hopper Cooled Engine.

Deyo Portable Engine.



THE TWO-CYLINDER
OPPOSED HORIZONTAL

MANLEY GASOLINE ENGINE



The MANLEY line is the last word in gasoline-engine construction for stationary and portable use. In the TWO-CYLINDER design two pistons work opposite each other on a double-throw crank shaft in perfect balance. A quiet, steady running quality is obtained not found on any other gasoline engine, and the equivalent of steam, without shock or vibration. TWO CYLINDERS make it the easiest engine to start. A steady and increased belt-pull makes quick recovery when overloaded. Many new features—closed crank case, keeping out all grit, chaff, etc., and allowing the splash system of oiling; water jacket cast separate from cylinder; separate valve-cages; early and late spark device, etc.—give an engine of the HIGHEST TYPE at MODERATE PRICE. Extreme simplicity will be noticed. Economical in use of gasoline and oil. Friction clutch pulley and high-grade magneto. Portable engines are mounted on specially designed all-steel truck, with screen water-cooling device. The reduction in weight (especially of flywheels) resulting from perfect balance of two cylinders is important consideration. Ten horse-power; weight, truck and all, but a trifle over 2000 lbs. Write for prices and special catalogue.

For Electric Lighting, especially where lights are taken direct from generator, a steady running of the Manley TWO-CYLINDER makes it very much superior to a single-cylinder gasoline engine. The Manley Engine, on account of the absence of vibration, can be installed on the upper floors of mills and manufacturing plants.

Manley Single-Cylinder Engines in sizes up to 7 H. P. have exclusive features.

QUALITY ENGINES FROM EVERY STANDPOINT.

Galvanized Steel Storage Tanks



All dimensions given are measured outside over all. All List Prices and weights based on Tanks and Troughs made from No. 20 Gauge Galvanized Sheets unless otherwise ordered. For No. 18 Gauge Tanks add 30 per cent. to No. 20 Gauge Lists. For No. 16 Gauge Tanks add 60 per cent. to No. 20 Gauge Lists. Every tank carefully inspected before leaving factory to insure tank being watertight.

ROUND-END GALVANIZED TANKS.

No.	Width.	Height.	Length.	Capacity.	Weight.	List.	Retail.
	Ft.	Ft.	Ft.	Bbls.	Lbs.		
101	2	2	4	91	74	\$9.00	\$6.75
102	2	2	5	117	88	10.50	8.08
103	2	2	6	144	102	11.50	8.63
L	2 1/2	2 1/2	5	145	93	12.00	9.00
M	2 1/2	2 1/2	6	178	110	13.00	9.75
N	3	2 1/2	6	213	134	15.00	11.25
108	2 1/2	2 1/2	8	245	141	16.00	12.00
111	3	2 1/2	8	295	156	17.00	12.75
112	3	2 1/2	10	384	185	19.50	14.62
116	4	2 1/2	8	386	169	18.50	13.88
117	4	2 1/2	10	496	203	23.00	17.25

ROUND GALVANIZED TANKS.

No.	Diameter.	Height.	Capacity.	Weight.	List.	Retail.
	Ft.	Ft.	Gals.	Lbs.		
1	3	2	91	69	\$9.00	\$6.75
2	4	2	166	97	11.00	8.25
3	4	2 1/2	215	106	12.50	9.38
4	4	3	254	115	14.00	10.50
5	4	4	338	145	16.50	12.38
6	4	5	423	168	19.00	14.25
7	4	6	508	191	22.00	16.50
8	5	8	688	220	28.00	21.00
9	5	2	262	129	14.50	10.88
10	5	2 1/2	342	141	16.00	12.00
11	5	3	411	154	17.50	13.13
12	5	4	548	181	21.00	15.75
13	5	5	675	211	25.50	19.13
14	5	6	810	240	29.00	21.75

Prices on larger sizes and special tanks quoted on application.

CYPRESS TANKS

These storage tanks are made of carefully selected red gulf cypress. We avoid the use of upland or cheaper grade of cypress, and in getting tanks from us you can rely upon high-grade material and workmanship. Tanks are made with round hoops and draw lugs, which give more strength and which do not rust like flat hoops.



Diameter.	Stave.	Capacity.	1 1/2 in. cypress.		2 in. cypress.	
			List.	Retail.	List.	Retail.
Ft.	Ft.	Gals.				
3	3	110	\$12.00	\$8.50		
4	4	315	21.00	14.00		
5	2 1/2	272	21.00	14.00		
5	4	467	25.50	17.25	\$32.50	\$21.75
5	5	597	28.90	19.50	37.00	25.00
6	4	688	31.80	21.50	41.00	27.50
6	6	1072	42.00	28.00	55.00	37.00
7	7	1738	58.00	39.00	74.00	50.00
8	6	1940	61.00	41.00	78.00	52.50
8	8	2639	76.00	51.00	97.00	65.00
10	10	5300			155.00	108.50

Prices on other sizes quoted on application.

SPARKO DRY BATTERIES

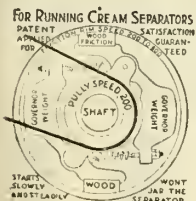


Our dry batteries are made by the most experienced and reliable manufacturers. Consequently we are able to offer a thoroughly reliable line of high-grade dry batteries, manufactured especially with a view to satisfactory service on gasoline engines. We carry two sizes, the No. 6 and the No. 8. While the No. 8 is much higher in price, it is a much larger and longer life battery. It is our aim to always carry fresh batteries that can be depended on for high efficiency.

No. 6 Battery, size 2 1/2 x 6-inch, 25c.
No. 8 Battery, size 3 1/2 x 8-inch, 75c.

THE STRITE GOVERNOR PULLEY

By the use of this pulley, using a gasoline engine, tread-power or any other unsteady motive power, there is no jar on the separator, and in case something should go wrong with the governor of the engine, and the engine should run up to a very high speed, it would not increase the speed of the separator, and will not in any case damage the separator by uneven speed, as is often done when an ordinary pulley is used. This pulley is made to set-screw on any size of line shaft, or to set-screw on the engine shaft, or bolt on the balance wheel on small engines. Be sure to give size of shaft when ordering, or number of bolts, and bow far from center. Price, \$12.00.



BUCKEYE IRON FORCE AND LIFT PUMPS

SINGLE AND DOUBLE ACTING.

FOR DEEP OR SHALLOW WELLS—HAND OR POWER.

For the prices of fittings for these pumps, see page 139.

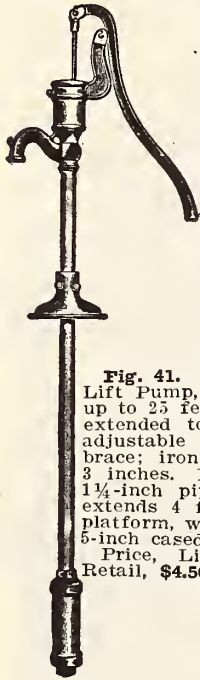


Fig. 41.



Fig. 22.



No. 32.



Fig. 56.



Fig. 14.

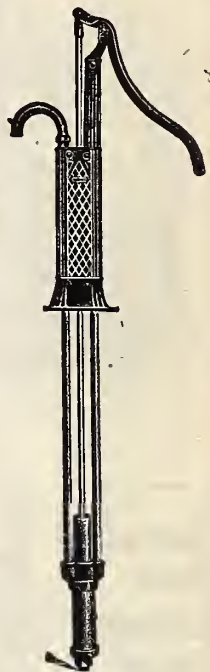


Fig. 13.

Fig. 41. No. 392.—Lift Pump, for wells up to 25 feet; can be extended to 40 feet; adjustable base and brace; iron Cylinder, 3 inches. Fitted for 1 1/4-inch pipe. Pump extends 4 feet below platform, will fit in a 5-inch cased well. Price, List, \$6.75; Retail, \$4.50.

No. 22.—Single Acting. Set Length. Heavy Standard Bolted Spout Hand Force Pump, 6-inch stroke, 3-inch Iron cylinder. Fitted for 1 1/4-inch Pipe. Same as Fig. 41, but can be extended 50 feet; will fit 5-inch ed well. List Price, \$11.00; Retail Price, \$6.75.

No. 22.—Same as above, but has 3-inch brass-lined Cylinder. List, \$12.75; Retail, \$7.75.

No. 32.—Same Pump as No. 22, but has Windmill Head and Cock Spout, with 3-inch brass-lined Cylinder. List, \$15.25; Retail, \$9.25.

No. 33.—Same as the No. 32, except that it has 3 1/2-inch brass-lined Cylinder instead of 3-inch. List Price with Windmill Head and Cock Spout, \$16.25; Retail, \$10.00.

Fig. 13. No. 200.—4-ft. Set Length Force Pump for wells under 25 feet deep, 3-inch porcelain-lined Cylinder, fitted for 1 1/4-inch pipe. List, \$13.00; Retail, \$9.00.

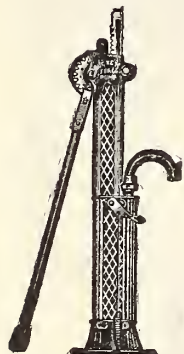
Fig. 13. No. 201.—5 1/2-ft. Set Length for wells under 25 feet deep, 3-inch brass-lined Cylinder, fitted for 1 1/4-inch pipe. List, \$14.00; Retail, \$10.00.

Fig. 14. No. 215.—Deep Well Force Pump for wells from 30 to 70 feet deep, 3-inch brass-lined lower Cylinder, 6-inch stroke. Fitted for 1 1/4-inch pipe. List, \$15.00; Retail, \$10.50.

Fig. 14. No. 518.—Deep Well Force Pump, for wells from 30 to 60 feet deep, 3-inch stroke, 2 1/2-inch brass lower Cylinder. List, \$17.00; Retail, \$11.75.

Fig. 14. No. 515.—Similar to the above, except that it has a three-inch brass-lined lower Cylinder. For wells up to 50 feet. List, \$16.00; Retail, \$11.25.

No. 987. Fig. 56. No. 836.—Deep Well Force Pump, with Windmill Head, for wells from 30 to 70 feet deep; with 3-way cock, 2 1/2-inch brass lower Cylinder, 6 to 9-inch stroke, with one-inch air chamber and discharge pipe. List, \$20.50; Retail, \$14.50.



No. 982.



No. 987.



Fig. 4.

IMPROVED BUCKEYE LIFT PUMP.

The Improved Buckeye is the most beautiful in design, most elaborately finished, best constructed and most desirable Lift Pump in every particular ever offered to the trade.

A good stock pump for wells not over forty feet deep.

Fig. 4—No. 325—5-foot set length, with 4-inch brass-lined cylinder. List, \$13.25; Retail, \$9.50.

Fig. 4—Stand only. List, \$6.25; Retail, \$4.75.

Buckeye Ratchet Head Pumps

Cog gear used on these Pumps is a complete wheel and not a small segment of the circle. Handle readily adjusted to height most convenient for operator. It has been the factory's aim to make this the most perfect line of ratchet pumps on the market.

	List.	Retail.
No. 902.—Corresponds with No. 392, but with 3-in. B. L. Cylinder.....	\$8.00	\$5.50
No. 922.—Corresponds with No. 22, but with 3-in. B. L. Cylinder.....	12.50	7.75
No. 987.—For deep drilled wells, 3-in. B. L. Cylinder.....	15.00	10.50
No. 982.—Corresponds with No. 215, but with 3-in. B. L. Cylinder.....	15.00	10.50
No. 991.—Corresponds with No. 836, but with 2 1/2-in. B. L. Cylinder.....	20.50	14.50

GOULD'S PUMPS

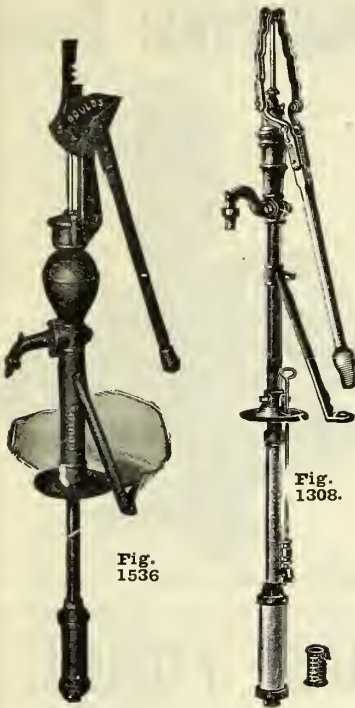


FIG. 1276—WINDMILL HEAD DOUBLE-ACTING THREE-WAY FORCE PUMP.

Has upper brass cylinder and differential plunger, which contributes to a smooth, uniform flow. A splendid pump; 6-in. hand stroke; 10-in. windmill stroke. Has 3x14 brass-lined lower cylinder. **List, \$19.50. Retail, \$14.00.**

FIG. 1482—SINGLE-ACTING WINDMILL HEAD THREE-WAY PUMP HEAD.

For 6, 8 or 10-in. stroke cylinders. Can be fitted for 3-in. suction pipe, so that any size plunger up to 2 3/4 ins. can be withdrawn without removing pipe from well. A splendid pump head for artesian wells. **List price without cylinder, \$19.50. Retail, \$14.50.**

FIG. 1536.—An old favorite, made with improved ratchet handle. With 3-in. Iron Cylinder. **List, \$7.00. Retail, \$6.00.** Brass lined, **List, \$8.00. Retail, \$7.00.** Cock Spout, extra, **List, \$1.50. Retail, \$1.25.**

FIG. 1308—LIFT AND FORCE PUMP.

For deep or shallow wells. Will go in 4-in. cased well. Base adjustable. One-inch discharge pipe can be fitted back of spout or underground T can be placed under platform.

No. 2.—2 1/2 x 14-in. Brass Cylinder, 10-in. stroke for 60 to 85-ft. wells. **List, \$17.00. Retail, \$11.00.**

FIG. 1309.—Same pump with cock spout. **List, \$19.50. Retail, \$12.75.**

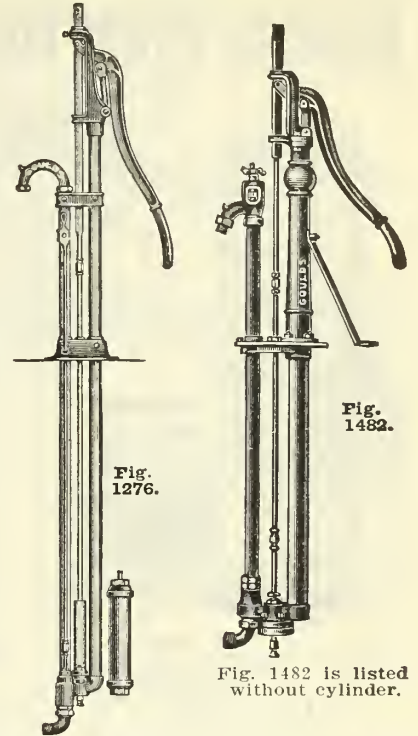


Fig. 1276.

Fig. 1482.

Fig. 1482 is listed without cylinder.

ADDITIONAL FOR FITTING BUCKEYE OR GOULD'S PUMPS

We give below a table of the additional charge for fitting, and the amount stated in table has to be added to the price of the pump selected. In fitting pumps we use galvanized pipe and galvanized pump rod and a strainer foot valve. For wells 26 feet deep or less we leave the cylinder 5 feet below platform. For wells deeper than 26 feet we place the cylinder close to the bottom of the well.

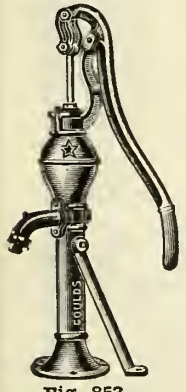


Fig. 853.

Illustrated by Fig. 853. Provided with revolving top, brass packing gland and air chamber tube. Tapped for 1 1/4 or 1 1/2-in. pipe. **List, without cylinder, \$9.00. Retail, \$6.00.**

GOULD'S STAR FORCE PUMP STANDARD

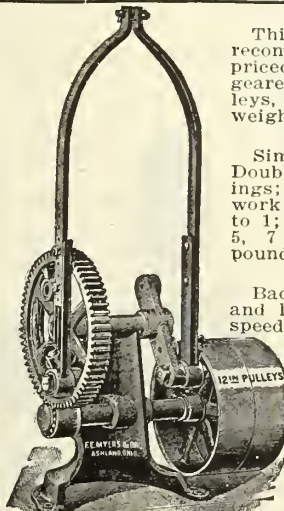
Depth of Well.	With 1 1/4" Pipe for 2 1/2" and 3" Cylinder Pumps.		With 1 1/2" Pipe for 3 1/2" Cylinder Pumps.		With 2" Pipe for 4" Cylinder Pumps.		Depth of Well.	With 1 1/4" Pipe for 2 1/2" and 3" Cylinder Pumps.		With 1 1/2" Pipe for 3 1/2" Cylinder Pumps.		With 2" Pipe for 4" Cylinder Pumps.	
		Special Prices		Special Prices		Special Prices			Special Prices		Special Prices		Special Prices
10 feet.....	\$1.45		\$1.65		\$2.05		32 feet.....	\$4.59	\$5.46	\$5.46		\$6.88	
12 feet.....	1.60		1.85		2.23		34 feet.....	4.87	5.80	5.80		7.30	
14 feet.....	1.60		2.08		2.51		36 feet.....	5.15	6.14	6.14		7.72	
16 feet.....	1.90		2.20		2.65		38 feet.....	5.43	6.48	6.48		8.14	
18 feet.....	2.10		2.44		2.93		40 feet.....	5.71	6.81	6.81		8.56	
20 feet.....	2.30		2.68		3.21		42 feet.....	5.99	7.15	7.15		8.98	
22 feet.....	2.50		2.92		3.49		44 feet.....	6.27	7.49	7.49		9.40	
24 feet.....	2.70		3.16		3.77		46 feet.....	6.55	7.83	7.83		9.82	
26 feet.....	2.90		3.40		4.05		48 feet.....	6.83	8.17	8.17		10.24	
28 feet.....	4.03		4.78		6.04		50 feet.....	7.11	8.51	8.51		10.66	
30 feet.....	4.31		5.12		6.46		Each additional foot..	.14	.17	.17		.21	

Special Prices Quoted on Application for Fig. 1482 Pump Head Fitted Complete.

PUMP CYLINDERS

Iron.			Brass Lined.		
Size.	List.	Retail.	Size.	List.	Retail.
2 1/2 x 10..	\$4.35	\$1.50	2 1/2 x 12..	\$8.50	\$3.40
3 x 10..	5.00	1.75	3 x 10..	9.00	3.60
2 1/2 x 12..	6.00	2.25	3 x 12..	9.50	3.80
3 x 12..	7.00	2.75	3 1/2 x 13..	8.50	3.40
			3 1/2 x 13..	9.50	3.80
			2 1/2 x 14..	9.25	3.70
			3 x 14..	10.25	4.10

Brass.		
Size.	List.	Retail.
2 1/2 x 12.....	\$9.75	\$4.25
3 x 12.....	11.00	4.75
2 1/2 x 13.....	9.75	4.25
3 x 13.....	10.75	4.75
2 1/2 x 14.....	10.50	4.50
3 x 14.....	11.75	5.00



Myers Pump Jack.

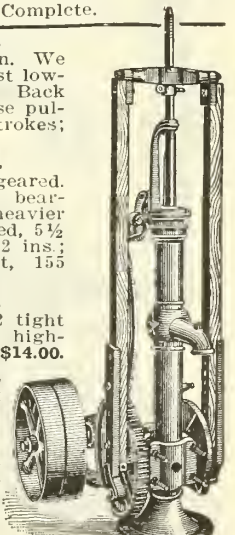
No. 1 G. & T. PUMP JACK.
This jack is shown by illustration. We recommend it as absolutely the best low-priced pump jack on the market. Back geared four to one; tight and loose pulleys, 13x2 inches; 5, 7 and 10-in. strokes; weight, 95 pounds. **Price, \$7.50.**

No. 2 G. & T. PUMP JACK.
Similar to No. 1, but double geared. Double foot-rest, babbitted main bearings; made very substantial. For heavier work than the No. 1. Back geared, 5 1/2 to 1; tight and loose pulleys, 13x2 ins.; 5, 7 and 10-in. strokes; weight, 155 pounds. **Price, \$12.00.**

No. 3 G. & T. PUMP JACK.
Back geared 12 to 1, with 13x2 tight and loose pulleys. Desirable for high-speed motors or engines. **Price, \$14.00.**

No. 365. — MYERS UNIVERSAL PUMP JACK, back geared 6 to 1, with 12-in. tight and loose pulleys, and 5, 7 1/2 and 10-in. strokes. This is a very convenient and a very popular jack. **List, \$16.00. Retail, \$12.00.**

Extra for long side arms to attach to ratchet head pump, 50c.



No. 1 G. & T.

Buckeye Power Working Head | Gould's Pyramid Power Pump

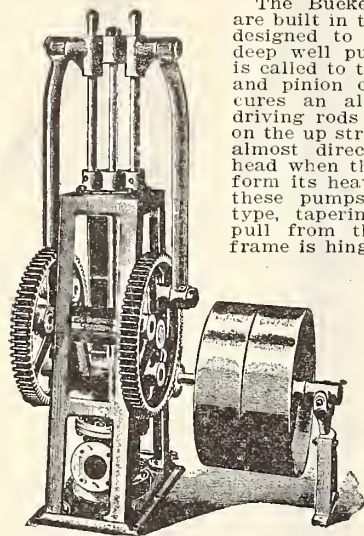


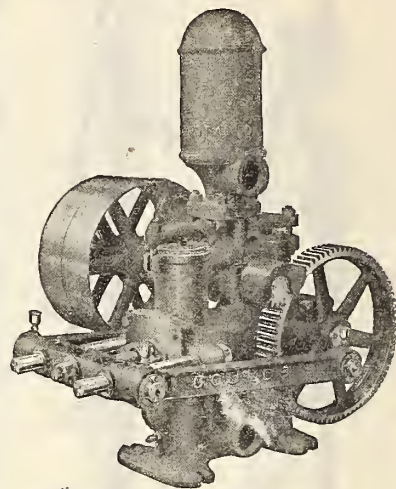
Fig. 1478.

The Buckeye Power Working Heads are built in three sizes and are carefully designed to meet the requirements of deep well pumping. Especial attention is called to the arrangement of the gear and pinion on these pumps, which secures an almost vertical lift on the driving rods when the pump plunger is on the up stroke, bringing the wrist pins almost directly underneath the cross-head when the pump is required to perform its heaviest work. The frames of these pumps are of the angle corner type, tapering in the line of the belt pull from the base to the top. The frame is hinged to the base, and by disconnecting the piston rod just above the packing nut and removing the four cap screws which attach the frame to the base, the body of the pump can be hinged out of the way when removing the plunger rod and valves from the well.

The cross-head and guides are unusually well constructed and prevent wear of the piston rod in the packing box of the pump.

This cut shows the improved pattern of the Pyramid Double Acting Belt Power Force Pump. Lack of space prevents us from describing it fully here, but we recommend it to our trade as the most desirable pump of its kind. The illustration is of the 3-inch Cylinder, 5-inch stroke pump, with brass lined cylinder, 1 1/4-in. suction and 1 1/4-inch discharge. Suitable for wells not more than 25 feet deep; capacity at 40 strokes per minute, 725 gals. per hour. List Price, \$55.00; Retail Price, \$45.00.

If interested in Power Pumps of any description, or for any special purpose or deep well working heads, write for special quotations and circulars.



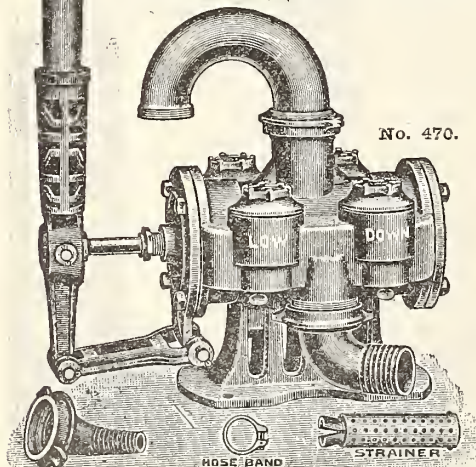
No.	Maximum Well Cylinder and Elevation.	Stroke.	Size Pulleys.	Floor Space.	Speed of Pulley Shaft.	Price.
139	3'-150'	5, 7 1/2, 10	20x4 in.	20x31	210	\$50.00
141	5'-150'	8, 10, 12	20x4 in.	26x39	180	75.00
143	8'-100'	12, 16, 20	30x6 in.	39x47	150	150.00

Air Chambers Extra. Ratio of Gear, Six to One.

Century Double-Acting Force and Tank Pump

The construction of this pump is such that all the valves are located on top of the pump. Each valve can be reached independently by removing the individual cap located immediately over it. The valve seats are brass, with a full 2-inch water-way which does not restrict the flow of water, and causes the pump to operate easily. The valves are metal, faced with rubber, and are of the poppet pattern, which raise clear from the seat, preventing any foreign substance from lodging under them. The Cylinder is highly polished. The piston rod is made from 13-16-inch drawn polished steel, and has a heavy brass stuffing nut. The handle is reversible; can be placed on either end, making it a right or left hand pump. The suction and discharge ports are fitted for hose and threaded on the inside for 2-inch iron pipe. The base is separate from the pump to which it is firmly bolted.

5x5 Cylinder, capacity at 40 strokes per minute, 2000 gals. per hour.
No. 470—Pump with hose nipple, hose attachment, hose band and strainer. Price, \$7.00.



No. 470.

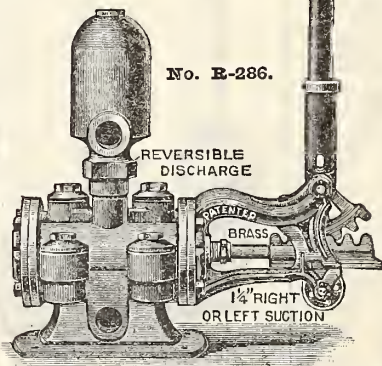
HOUSE FORCE PUMP

Has a 3-inch brass-lined cylinder, brass valve seats, rubber-faced valves and brass-covered piston rod. Strongly and carefully made and tested under pressure before leaving factory. Working parts are readily accessible, making it an easy pump to repair.

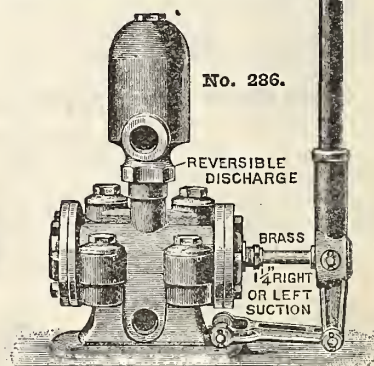
No. 286—Pump with plain lever handle. List Price, \$14.00; Our Price, \$10.00.

No. R 286—Same as No. 286, but with cog gear handle. List Price, \$15.00; Our Price, \$11.00.

For either of the above, fitted with Brass Air Cylinder to be used with compressed air water supply tanks, add to List, \$3.00; to Our Price, \$2.00.



No. R-286.



No. 286.

BALTIMORE WOOD PUMPS

With and Without Porcelain Cylinder.
PRICES OF PUMPS FITTED COMPLETE.

Depth of Well.	6x6 Unlined.		6x6 Lined.		7x7 Lined.	
	List Price.	Retail Price.	List Price.	Retail Price.	List Price.	Retail Price.
10 feet....	\$7.50	\$5.25	\$9.00	\$6.30	\$10.75	\$7.60
12 feet....	7.90	5.60	9.40	6.65	11.15	7.80
14 feet....	8.30	6.00	9.80	7.00	11.55	8.25
16 feet....	9.10	6.50	10.60	7.50	12.35	9.00
18 feet....	9.70	7.00	11.00	8.00	12.95	9.25
20 feet....	10.50	7.50	11.75	8.25	13.50	9.50
23 feet....			12.75	9.00	14.90	10.50
25 feet....			13.50	9.50	16.05	11.25
28 feet....			15.00	10.50	18.35	13.00
30 feet....			16.30	11.50	20.45	14.50
33 feet....			19.50	13.75	22.50	16.00
35 feet....			21.50	15.25	23.50	16.50
40 feet....			24.50	17.25	26.50	18.75
45 feet....			28.10	20.00	30.10	22.00
50 feet....			31.10	22.00	33.10	24.00

BALTIMORE WOOD PUMPS

NOT FITTED.

"No. 0."—STOCK PUMPS. 7x7 Inches, 4-inch Bore.
 List Price, List Price,
 Unlined, Porc. Lined.

6 feet long.....	\$7.00	\$8.75
7 feet long.....	8.00	9.75
8 feet long.....	9.00	10.75
10 feet long.....	11.00	12.75
12 feet long.....	13.00	14.75
6 feet long, reamed for 6x6 extension pipe, unlined 7.25		

Retail Prices on Pump Stocks 30 Per Ct. from List Prices.

"No. 1."—THE FAVORITE HOUSE PUMPS.
 6x6 in., 3 1/2-in. Bore.

	List Price,		List Price,	
	Unlined.	Porc. Lined.	Unlined.	Porc. Lined.
6 feet long.....	\$5.50	\$7.00		
7 feet long.....	6.10	7.60		
8 feet long.....	6.70	8.20		
10 feet long.....	7.90	9.40		
12 feet long.....	9.10	10.60		
6 feet long, reamed for 6x6 extension pipe, unlined 5.50				

Retail Prices on Pump Stocks 30 Per Ct. from List Prices.

PUMPS FOR DRIVE WELLS

To Fit 1 1/4, 1 1/2, or 2-inch Iron Pipe.

Special No. 1 House, 5 feet wood, Porcelain-lined Cylinder, entire length 6 feet.

List Price, \$7.50.

30 Per Cent. from List Price.

TUBING AND MISCELLANEOUS

	List Prices.
4x4, 12 feet long and under, per foot.....	\$0.20
4x4, over 12 feet, per foot.....	.22
6x6 Extension Tubing, per foot.....	.60
Cylinder Block, Porcelain Lined, 3 feet long.....	3.30
	3.90

- Cylinder Block, Porcelain Lined, 4 feet long..... 4.50
- Cylinder Block, Porcelain Lined, 5 feet long..... 5.10
- Cylinder Block, Porcelain Lined, 6 feet long..... 5.70
- Cylinder Block, Porcelain Lined, 7 feet long..... 6.30
- Cylinder Block, Porcelain Lined, 8 feet long..... .50
- 6x6 Couplings for 4x4 Tubing..... 1.00
- Buckets, 5-in., ea., No. 00, List, \$1.25; 4-in., ea., No. 0..... .65
- Buckets, 3 1/2 in., No. 1, ea., List, 80c.; 3-in., No. 2, ea..... .25
- Handle, any size, ea., List, 30c.; Handle Links or Knuckles..... 1.50
- Check Valves, per dozen..... 1.00
- Iron Connection for Drive Wells, fitted for 1 1/4-inch and 1 1/2-inch iron pipe..... .40
- Extra Iron Spout, with loose collar..... .15
- Extra Wood Spouts, ea., List, 15c.; Extra Spout Braces, ea..... .10
- Extra Bands, each..... .40
- Extra Ears or Brackets, Nos. 35 and 36, each..... .40
- 1-in. Rod Couplings, pair, List, 40c.; Ex. Frost Faucets, each..... .03
- Plunger Rod, per foot..... .03

The Queen Rubber Bucket.



Price, 8c.

Victor Anti-Freezing.



Price, 10c.

Crosby Swivel Link Bucket. Price, 10c.



Crosby Plain, 8c.

IXL RUBBER BUCKET



Price, 8c.

PUMP LEATHERS

Our pump leathers are cut from the best grade of selected Oak Tan leather. We offer only such leathers as we can recommend as being absolutely high grade.



Plunger Leather Crimped.



Plunger Leather not Crimped.



Suction Valve Leather.



Ring Packing for Cylinders.

Crimped Plunger or Cup Leathers

	Pr. Gr.	Each.		Pr. Gr.	Each.
1 in....	\$3.50	\$.05	3 1/4 in....	\$18.50	\$.16
1 1/4 in....	4.50	.05	3 1/2 in....	24.50	.18
1 1/2 in....	6.00	.08	3 3/4 in....	29.00	.22
1 3/4 in....	8.00	.08	4 in....	31.50	.25
2 in....	9.00	.10	4 1/4 in....	37.50	.30
2 1/4 in....	10.00	.10	4 1/2 in....	40.00	.30
2 1/2 in....	13.00	.12	4 3/4 in....	43.00	.32
2 3/4 in....	14.50	.14	5 in....	49.00	.40
3 in....	16.50	.16			

Plunger and Lower Valve Leathers and Ring Packing

Outside Diam.	Cylinder Diam.	Per Gross.	Each.
2 in.	1 1/2 in.	\$5.00	\$.05
2 1/4 in.	1 3/4 in.	6.00	.08
2 1/2 in.	2 in.	6.50	.08
2 3/4 in.	2 1/4 in.	8.00	.10
3 in.	2 1/2 in.	8.50	.10
3 1/4 in.	2 3/4 in.	10.00	.12
3 1/2 in.	3 in.	10.50	.12
3 3/4 in.	3 1/4 in.	13.00	.14
4 in.	3 1/2 in.	15.50	.16
4 1/2 in.	3 3/4 in.	18.00	.18
5 in.	4 in.	19.50	.20

Cups for Buckeye Upper Plungers

- 1 3/4 in. goes with 2 1/2 in. lower cylinder... 10c.
- 2 3-16 in. goes with 3 in. lower cylinder... 12c.
- 2 9-16 in. goes with 3 1/2 in. lower cylinder, 15c.
- 2 13-16 in. goes with 4 in. lower cylinder, 20c.

Wood Pump Rods

Wood Pump Rod for artesian wells is made of selected material and fitted with forged couplings.

Size of Rod	Size of Artesian Well Cylinder	List per ft.	Retail per ft.	Steel Substitute
1 in.	1 1/4 in.	\$.12	\$.10	\$1.50
1 1/4 in.	2 in.	.15	.12	1.50
1 1/2 in.	2 1/4 in.	.20	.16	2.00
2 in.	3 in.	.25	.20	2.50

The above prices are for rod in standard lengths of from 16 to 20 feet, forged couplings included.

Artesian Well Cylinders

Prices on Application.

Galvanized Pump Rod and Couplings

3/8-inch Round Galvanized Pump Rod in 20-foot lengths, not threaded, 2 1/2c. per foot.

In cut lengths, threaded and coupled, lengths not less than 6 feet, 5c. per foot.

Galvanized Pump Rod Couplings for 3/8, 7-16 or 1/2-in. rod, 5c. each. 25c. per lb.

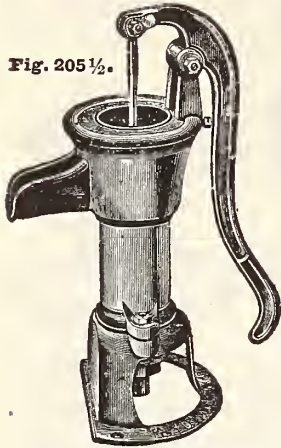


WOOD PUMP ROD.



Closed Top Pitcher Spout Pump

Fig. 205 1/2.



SIZES AND PRICES.

No. 1—Diameter of Cylinder, 2 1/2 in.; Suction, 1 in. Polished Iron Cylinder. List, \$4.25. Retail, \$1.00.

No. 2—Diameter of Cylinder, 3 in.; Suction, 1 1/4 in. Polished Iron Cylinder. List, \$4.75. Retail, \$1.15.

No. 3—Diameter of Cylinder, 3 1/2 in.; Suction, 1 1/2 in. Polished Iron Cylinder. List, \$5.25. Retail, \$1.30.

PITCHER PUMP LEATHERS.

No. 1—Valve and flat Plunger Leathers, each, 10c.

No. 2—Valve and flat Plunger Leathers, each, 12c.

No. 3—Valve and flat Plunger Leathers, each, 15c.

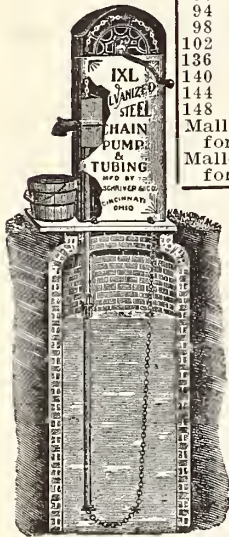
No. 1—2 1/2-inch Leather Cups, 12c.

No. 2—3-inch Leather Cups, 16c.

No. 3—3 1/2-inch Leather Cups, 20c.

Brass Jacket Drive Well Points

No.	Diameter of Pipe.	Length.	No. 60 Gauge, Retail	
			List Price, Per Doz.	Price, Each.
90	1 1/4	24 in.	\$36.00	\$.90
94	1 1/4	30 in.	46.00	1.15
98	1 1/4	36 in.	56.00	1.40
102	1 1/4	48 in.	76.00	1.90
136	1 1/2	24 in.	48.00	1.20
140	1 1/2	30 in.	60.00	1.50
144	1 1/2	36 in.	72.00	1.80
148	1 1/2	48 in.	96.00	2.40
Malleable Drive Caps, Hexagon-shaped, for 1 1/4-inch Pipe.....			20c.	
Malleable Drive Caps, Hexagon-shaped, for 1 1/2-inch Pipe.....			25c.	



IXL Galvanized Steel Chain Pump

Being made of No. 24 gauge galvanized steel, this pump will not rot, rust nor accumulate filth like pumps of less desirable construction, and it makes the water clear and pure. It is anti-freezing, as the reservoir piece has a small hole which allows the water to run out. This style of pump is practical for use in wells as deep as 40 feet. The term curb means the complete upper part of pump with fixtures.

PRICES.

I X L Curb.....	\$3.00
Gem Curb.....	2.50
Tubing, per foot.....	.08
Coupling.....	.20
Rubber Buckets.....	.08
Iron Platform.....	4.50
Iron Platform for Gem.....	1.00
Chain, per lb.....	.08

Gem Galvanized Steel Chain Pump

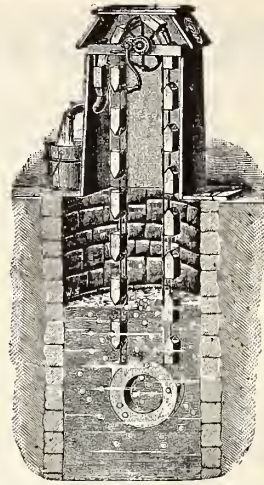
Has extension base, which also projects below platform and is easily fitted by cutting a square hole in the platform the length and the width of bottom of pump.

The fixtures are first-class and anti-freezing.

The pump is painted stone color, with two coats of the best paint, and is neatly stenciled and varnished.

Made entirely of galvanized steel in four pieces, locked together with its own metal.

There are neither rivets nor solder on it, making it very strong. **Price, \$2.50.**



No. 2 National Water Elevator and Purifier

Purifies by means of oxygen forced into water.

Price: Elevator, with 25-foot chain and jappaned bottom wheel for 10-foot cistern, \$7.00.

Same, with 30-foot chain for 12-foot cistern, \$7.75.

Extra chain, 15c. per foot.

No. 30 Star Water Elevator and Purifier

Similar to the No. 2 Water Elevator, except that the buckets are slightly smaller and there is a slight difference in the way the buckets are coupled together. On account of the smaller bucket, it is considered by some better for deep wells.

Price: Elevator and 25-foot chain and jappaned bottom wheel for 10-foot cistern, \$6.00. Extra chain, per foot, 15c.

Wood Chain Pump

This Wood Curb Chain Pump is first-class in every respect; nicely painted and striped.

PRICES.

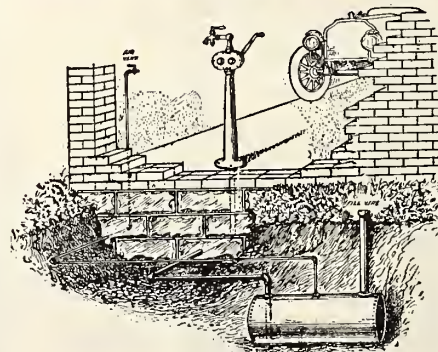
Chain Pump Curbs, each.....	\$2.25
Chain Pump Tubing, per foot.....	.06
Chain (running 3 1/2 feet to pound), per lb.....	.08

DIRECTIONS FOR FITTING UP CHAIN PUMPS.

1. Use one foot more tubing than depth of well.
2. Multiply length of tubing by two and add 3 feet 6 inches to get proper length of chain.
3. Rubber buckets should be placed 6 or 7 feet apart.
4. See that tubing is held securely by tubing brace at bottom of curb.



Underground Gasoline Storage Plant



Just what is required by every automobile or gasoline engine owner who wishes to maintain a supply of gasoline on his premises. The illustration shows the plant installed with tank buried on the outside. Prices include tank, rotary pump, pipe cock and air vent cock. Prices do not include the other pipes shown in cut. Capacity at 50 revolutions per minute, 5 1/2 gallons.

Special circular on application.

	List Price.	Retail.
24-in. diam., 36-in. long, capacity 85-gallon.	\$35.00	\$28.00
30-in. diam., 36-in. long, capacity 110-gallon.	38.00	30.40
34-in. diam., 48-in. long, capacity 180-gallon.	44.00	35.20
40-in. diam., 48-in. long, capacity 260-gallon.	50.00	40.00

CORN BARRELS

Without handles.....Each. \$4.50
With handles.....5.00

GALVANIZED STEEL BASKETS

With Reinforced or Double Steel Bottoms.

Bushel—A 101.....Each, \$1.00

Utility Steel Baskets.

Japanned. Dry Measure. With Bale and Side Handles. Half Bushel, 45c. With Patented Clips and Drop Handles. Half Bushel, 45c. Bushel, 60c. 1 1/2 Bushels, 75c.

Utility Steel Baskets Galvanized.

With Bale or Side Handles, 1/2 Bushel, 50c. 1 Bushel, 65c. 1 1/2 Bushels, 90c.

Oak Baskets.

No. A101.
One Bushel with Rim, 80c. 1 1/4 Bushels with Rim, 90c.
1 1/2 Bushels with Rim, \$1.00.



CEDAR AND OAK MEASURES

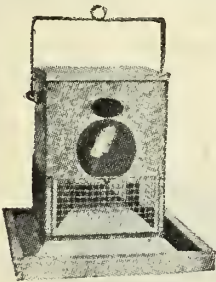
	Each.
1/4 Peck, wire hoops.....	\$.35
1/4 Peck, 2d quality, flat hoops.....	.25
1/2 and 3/4 Peck comb, wire hoops.....	.45
1/2 and 3/4 Peck comb, 2d quality, flat hoops.....	.35
1/2 Peck and 1/2 Peck comb, wire hoops.....	.50
1/2 Peck and 1/2 Peck, 2d quality, flat hoops.....	.40
1/2 Bushel, wire hoops.....	.75
1/2 Bushel, 2d quality, flat hoops.....	.50
1/2 Bushel, oak, iron cross-bar.....	1.25

Coates Automatic Feeder and Exerciser

Insures Larger Profit to Poultrymen.

These feeders are made of galvanized iron, and will last a lifetime. They are perfectly constructed, and never fail to give satisfaction. Rats and mice cannot get at the food in these feeders. They require no floor space, being suspended from the ceiling. Hens eat from all sides. Exercise means larger egg production, and at the same time keeps flock healthy.

- No. 1**—Cylinder-shaped, for chicks, capacity 6 qts.....\$1.50
- No. 2**—Cylinder-shaped, for hens, capacity 10 qts..... 2.00
- No. 3**—Square-shaped, for hens, capacity 20 qts..... 3.50



NORWICH AUTOMATIC EXERCISER AND FEEDER

This machine will pay for itself in the actual saving of grain in ninety days at the present price of grain. It is absolutely Rat and Bird proof; also Rain and Damp proof. Every kernel of grain put in the hopper will go into your flock.

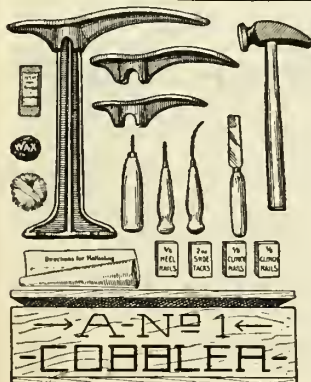
This machine will positively increase the egg production. Poultrymen the world over agree that exercise is indispensable in the production of eggs.

No.	Size of Hopper.	Shipping Weight.	Price.
1	8 Qts.	13 lbs.	\$2.50
2	14 Qts.	15 lbs.	3.25
3	20 Qts.	20 lbs.	4.10

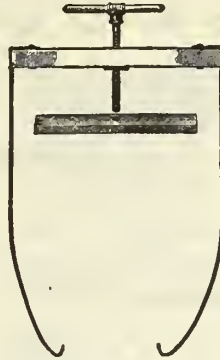


The A No. 1 Cobbler's Outfit

This Cobbler's Outfit should be in every home. Do your own shoe repairing. It is expensive to have a cobbler repair them. Each set includes the following: 1 Stand for Lasts, 1 Extra Large Last, 1 Medium Last, 1 Small Last, 1 Shoe Knife, 1 Hammer Head, 1 Hammer Handle, 1 Sewing Awl, 1 Sewing Awl Handle, 1 Harness Awl, 1 Harness Awl Handle, 1 Peg Awl, 1 Peg Awl Handle, 1 Pkg. 4-8 Clinch Nails, 1 Pkg. 5-8 Clinch Nails, 1 Pkg. 5-8 Heel Nails, 1 Pkg. (6) Shoe Needles, 1 Ball Shoe Wax, 1 Ball Shoe Thread, 1 Copy Directions.
Price, per set.....75c.



IMPROVED BARREL HEADERS



The Nos. 1 and 2 Barrel Headers have the followers attached to the screw, which device is patented. The follower attached thus can revolve, and is taken up with the screw after the barrel is headed. The side clamps are steel and fastened with two bolts.

Prices.

No. 1 and No. 1A, with 7/8-inch screw.....\$1.50
No. 2, with 1-inch screw..... 2.00
No. 6, with lever..... 1.50

DANDELION PULLER

A WEEDLESS LAWN WITH LITTLE WORK.

To Kill
Dandelions,
You Must
Get the
Roots.

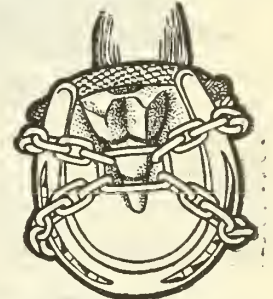
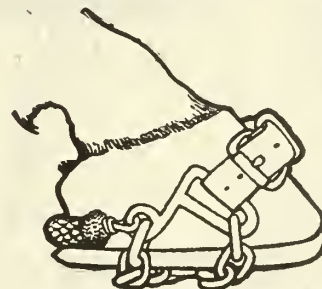


You slide the steel trowel shaped blade of the puller straight down into the soil, close to weed. Then push the handle toward the weed and pull up. The root is caught by a patented double-tooth prong which projects from inside of blade, and up comes the root to the last inch, nothing left to start new growth. As the pull is directly up, the ground and lawn around the weed is undisturbed. The clog-proof prong which gets the root is the patented feature. **Besides Dandelions, it pulls plantain and other weeds.**

Price, 50c.

Kinnell Emergency Chain Overshoe for Horses

NO EXCUSE FOR HORSES SLIPPING.



Put the Kinnell Emergency Shoe on your Horses. Prevents suffering and loss.

Just the thing to prevent Horses from breaking legs, causing innumerable falls, delay, suffering and financial loss on account of icy, snowy weather.

Special Chain Shoes for Mules, small, medium and large.
The average 1400 lb. horse requires a No. 5.
The average 1600 lb. horse requires a No. 6.
Price, per set of four.....\$4.00

RAT CORN

Safe, Sane and Sanitary Manner in which to rid your premises of Rats and Mice.

Rat Corn mummifies Rats and all Rodents, and therefore leaves no odors. It will not kill cats, dogs or human beings. There are over 500,000,000 Rats in this country, and it is the place of each individual to get rid of his share. It is said that rats are the greatest spreaders of disease on earth. Rid your premises of them by using Rat Corn.
Prices: 25c., 50c. and \$1.00 Cans.



WATER TRUCKS AND COMBINATIONS With Wood or Steel Wheels

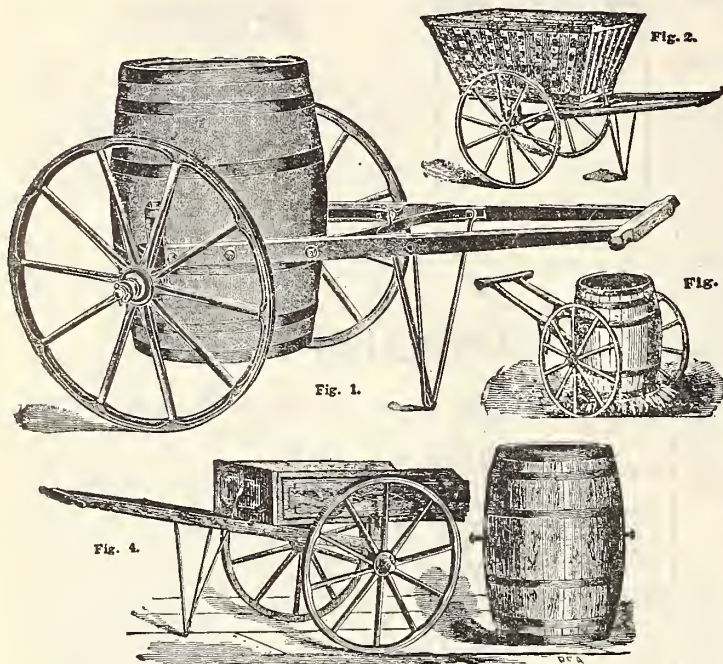


Fig. 1 represents our Barrel Cart, to which can be attached any of our Barrel Spray Pumps. This is a convenient combination, and may be found useful in various ways, such as watering gardens, spraying fruit trees, etc.

Fig. 2 shows Truck with Leaf Rack Attachment. Fig. 3 shows Truck and Barrel with Sprinkler Attachment.

Fig. 4 shows Truck and Box, with Barrel Detached. Dimensions: Height of Wheels, 2 ft. 9 in.; Distance between Trunnions, 2 ft. 2 1/2 in.; Width Tire, Steel, 1 1/2 in., 2 1/2 in., 3 1/2 in.; Wood, 1 1/2 in., 2 1/2 in., 4 inches.

Box Inside Measure Width, 22 1/2 in.; Length, 24 in.; Height, 8 1/2 in. Box has tail door.

PRICES.

	List Price.	Special Price.
Water Truck with 1 1/2-inch tires.....	\$10.00	\$6.00
Water Truck and Barrel.....	15.00	8.50
Water Truck and Box.....	15.00	8.50
Water Truck, Barrel and Box.....	20.00	11.50
Sprinkling Attachment.....	5.00	3.25
Leaf Racks.....	8.00	4.75
New Barrel.....	5.00	3.00
Box.....	5.00	3.00
Trunnions—List, per pair, 75c.; Retail, per pair, 50c.		
For 2 1/2-inch Tires on Trucks, add to the above price, List, \$1.20; Retail, 75c.		
For 3 1/2-inch Tires on Trucks, add to the above price, List, \$2.40; Retail, \$1.50.		

EXTRA TRUCK WHEELS.

	List Price.	Special Price.
Reg. Tire, wood or steel, each.....	\$3.00	\$2.00
2 1/2-inch Tire, wood or steel, each.....	4.00	2.50
4-inch Tire, wood, each.....	4.50	2.75
3 1/2-inch Tire, steel, each.....	4.50	2.75

EXTRAS FOR WATER TRUCK.

	List Price.	Special Price.
Handles, each.....	\$1.30	\$.80
Cross-Bars, each.....	.65	.40
Three Leg Support, each.....	2.40	1.50
Axle with Trunnion Holder.....	1.20	.75

Wheelbarrow Leaf-Rack Attachment



Can be attached to any style or size wheelbarrow with removable sides. Most convenient for gathering leaves, cut grass and rubbish. One of these attachments should be in use on every small suburban place, as well as the larger estates. Capacity, 10 bushels; made of galvanized wire, bolted to a wooden base. List Price, \$6.50; Our Special Price, \$4.00

"LITTLE GEM" SPRINKLER



Track, 4 feet 6 ins. center to center of tires on the ground. Capacity, 150 gallons. Weight, 780 pounds, approximately. Axles, 1 1/2 inches. Tire, 4x 1/2 inches. Wheels, wood hub, 4 feet 6 inches, patent slope-shouldered spokes. The gear is painted red and the tank green.

Ease of operation. The sprinkling device or head is so arranged that it can be adjusted in one minute to any width of spray from 12 inches to 18 feet. The valves are located in the tank and are operated from the driver's seat, thus giving the driver perfect control of the flow of water at all times, each side working independently of the other. Complete with gear, tank and frame, valves and attachments. List Price, \$160.00; Our Special Price, \$85.00.

BALTIMORE PUSH CART

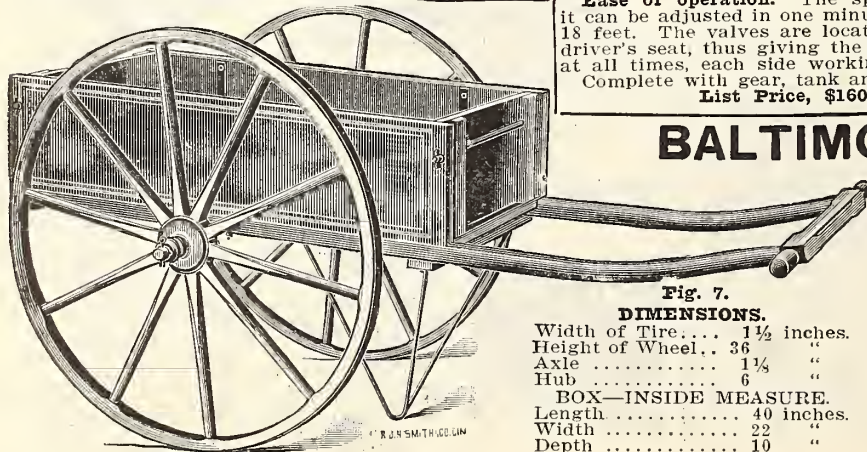


Fig. 7.

DIMENSIONS.

Width of Tire.....	1 1/2 inches.
Height of Wheel.....	36 "
Axle.....	1 1/4 "
Hub.....	6 "
BOX—INSIDE MEASURE.	
Length.....	40 inches.
Width.....	22 "
Depth.....	10 "

For the merchant, printer, farmer, etc., to have one of these carts on his premises it will be found a most useful vehicle. There are so many purposes for which they can be employed—carrying bundles, printers' forms, farmers' tools and light implements, etc. It is never out of place, and always ready to pick up at short notice. They are nicely finished; higher wheels, better ironed and altogether superior to anything of its kind on the market. There is now an immense demand for these carts, but notwithstanding we have placed the price low. Retail.....\$7.50 List.....\$13.00 Extra wheels, each—List, \$5.00. Retail, \$3.00.

REX FLINTKOTE ROOFING

This roofing is acknowledged the world over to be the highest quality prepared roofing manufactured. It has several exclusive features not found in any other prepared roofing. They add greatly to the life of roofing. One of the exclusive features is the flint coating which goes next to the roof boards, preventing dry rot and excluding resinous pitches in the roof boards from attacking the roofing. It insulates against heat and cold. It neutralizes the attacks of acid and alkali fumes. It prevents the roofing from sticking together in the rolls. It permits the roofing to be laid on green lumber.

The felt used in the Rex Flintkote Roofing is the highest quality it is possible to produce.

The patent caps, made of the same material as the roofing, are another exclusive feature. The caps cannot rust, corrode, countersink, cut and weaken the roofing, as is the case with large-headed nails. The cement has wonderful adhesive qualities. Sufficient nails, caps and cement packed inside of each roll.

It comes in rolls containing 108 square feet.

Prices: One-Ply, \$2.25; Two-Ply, \$3.25; Three-Ply, \$4.00.
Less 10 per cent. in ten-roll lots.



GRITCO ROOFING

Gritco is an exceedingly high-grade roofing, made especially for us and fully guaranteed. It does not possess the exclusive features found in the Rex Flintkote, although climate conditions will not affect it for many years. The ingredients used in the Gritco are especially selected for their chemical adaptability, and in manufacture the utmost care is used to produce a uniform and dependable article.

Sufficient nails and cement packed in each roll.

Prices: One-Ply, \$1.75; Two-Ply, \$2.00; Three-Ply, \$2.25.
108 Square Feet to Roll.



TURCO ROOFING

Turco is a reliable roofing, but cannot be expected to give the same service as the Rex Flintkote or Gritco, because its price is less; but for temporary buildings and small buildings where conditions are not severe, Turco will give you good service.

The materials used in the manufacture of Turco are selected with care, and are put together with care, and are carefully examined before shipped.

Sufficient nails and cement packed in each roll.

Prices: One-Ply, \$1.25; Two-Ply, \$1.50; Three-Ply, \$1.75.
108 Square Feet to Roll.



GRIFFTURNOID RUBBER ROOFING

This is a high-grade roofing, made of wool felt, thoroughly saturated with a non-drying gummy compound that remains soft and pliable in either hot or cold weather, and is absolutely water-proof. It is coated with a non-oxidizing water-proof coating. This combination produces a roof covering good for all time, in all climates, under all conditions. It is strong, durable and easy to lay. It is acid and alkali-proof and fire-resisting. Is made in one, two and three-ply weighing 35, 45 and 55 pounds, respectively. Each roll is packed with nail-caps and cement paint. 108 square feet to roll.

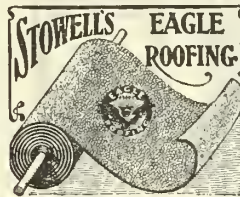
1-Ply, \$1.50. 2-Ply, \$1.75. 3-Ply, \$2.00.



"AMATITE" ROOFING

Amatite is even more than ready to lay; it is all but laid. It is heavily coated and mineral surfaced at time of manufacture. After simply nailing in place on the roof, it needs no painting—in fact, no care or attention of any kind for years. It is made of roofing materials that have been time-tried and tested in every climate and under all conditions.

No painting, no repairs, no tinkering, no care or attention of any kind for a long time. A fire retardant; requires no skilled mechanic to lay it. Rolls 32 inches wide; 110 square feet, sufficient to cover 100 square feet of roof, allowing 3-inch laps. Cement and nails packed with each roll. Price, per roll, \$2.00; five rolls, \$9.50.



This is a high-grade gravel surface wool felt roofing, saturated with natural Trinidad Asphalt; will not dry out and become brittle when exposed to the weather, as roofings do; manufactured from coal tar materials.

Rolls are 32 inches wide; each roll contains 108 square feet.

Special nails and cement are furnished free with every roll.

Per roll, \$2.10; five rolls, \$10.00.
Special Price in Larger Quantities.

LORD BALTIMORE ROOFING

This is a high-grade gravel surface Asphalt Roofing at a very low price.

PRICE, PER ROLL, \$1.75.

GALVANIZED ROOFING NAILS

With extra large heads, per lb. 2c.

GALVANIZED CAPS

Per lb. 6c.

GRITCO ROOFING PAPER

2-ply Gritco Roofing, paper, per roll of 108 square feet.	\$.65
3-ply Gritco Roofing, paper, per roll of 108 square feet. . . . .	.90
D. & C. Asphalt Rubber Paint for Coating, in 1 and 2-gal. cans (1 gal. covers 300 square feet of surface), per gal. . . . .	.60
D. & C. Coal Tar Pitch, in 70-lb. kegs, per keg.	1.50
Roofing Nails and Caps (about one pound each per roll), per pound . . . . .	.05

"PABCO" SATURATED FELT

A Waterproof Sheathing.

Per roll of 500 square feet. \$1.50

SINGLE PLY TARRED FELT

No. 3—500 square feet to roll. \$1.25

SLATERS FELT

500 square feet to roll. \$1.00

ROSIN SIZED SHEATHING PAPER

In Rolls of 500-Square Feet Each

20-lb. Sheathing Paper, per roll of 500 square feet.	\$.65
40-lb. Sheathing Paper, per roll of 500 square feet. . . . .	.80

Special Prices in 10-roll lots; also by the ton.

REGAL BLACK ROOF COATING

It is made from the best grade of hard asphalt known, melted, specially treated and combined with pure linseed oil, which is kettle boiled and carefully prepared under special formulas. It has a high gloss and is durable. Will not run; can be applied on tin or any of the various composition roofings. Price, per gallon, 60c. Special prices in large quantities.

"DIAMOND" Wide Mouth Swivel and Reversible Carrier with Independent Single Trucks.
 Steel Track Car, List, \$7.00; Retail, \$4.25.
 Wood Track Car, List, \$7.00; Retail, \$4.25.
 Steel Track, per foot, List, 20c.; Retail, 12½c.
 Special discount for cash.



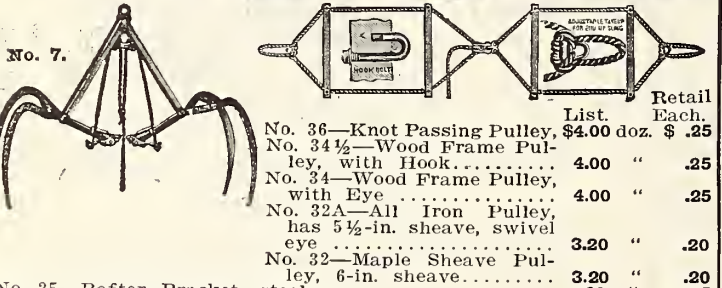
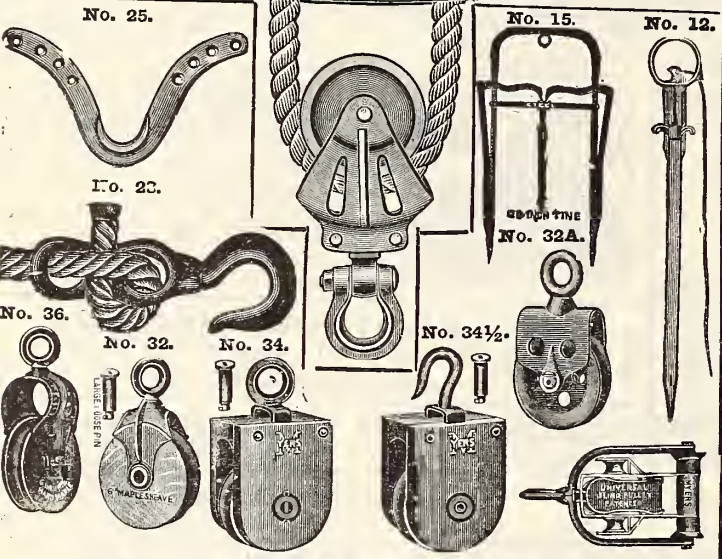
GRITCO SWIVEL REVERSIBLE STEEL TRACK HAY CARRIER No. 4



NO WEAK POINTS
 Steel Track, List Price, Per Foot, 20c.
 Our Special Price, 12½c.
FOR FORK OR SLING.
 Car is easily and quickly reversed from the floor, contains no lugs or pins to break; heavier than cars ordinarily sold through this section.

Entirely of malleable iron and high grade. Track traveler and rope pulley sheaves revolve on turned iron bushing. Car will not pass the trip-block while in operation.
 Steel Track Carrier, List, \$7.00; Retail, \$4.25. Wood Track Carrier, List, \$7.00; Retail, \$4.25. Special Discount for Cash.

ROPE
 Always on hand, the best Manila, Sisal and Cotton Rope, in coils or by the piece.
Prices on Application.
 Approximate length of Manila and Sisal Rope, per lb: ¾ diameter, 6 feet to pound; 13-16 diameter, 6 feet to pound; ¾ diameter, 4 feet 3 ins. to pound. We recommend 13-16-in. Rope for hay forks. Fodder Yarn, Binder Twine, Prices on application.



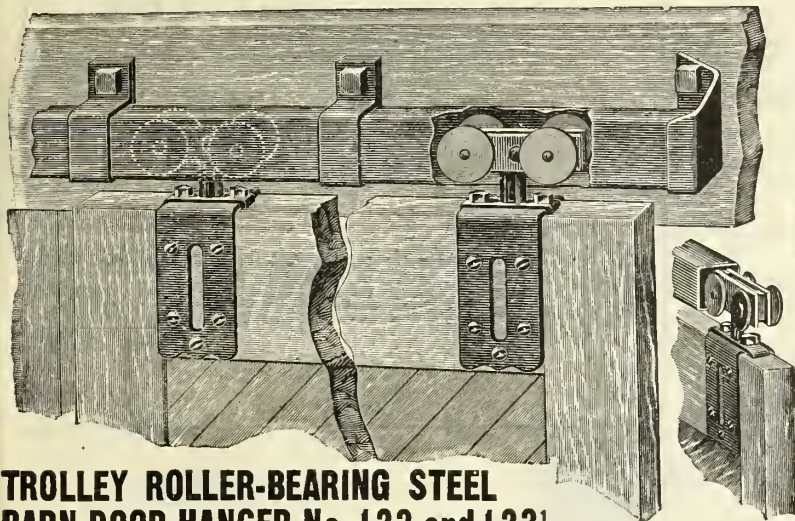
	List	Retail
No. 36—Knot Passing Pulley, 4.00 doz.	\$4.00	\$.25
No. 34 1/2—Wood Frame Pulley, with Hook	4.00	".25
No. 34—Wood Frame Pulley, with Eye	4.00	".25
No. 32A—All Iron Pulley, has 5 1/2-in. sheave, swivel eye	3.20	".20
No. 32—Maple Sheave Pulley, 6-in. sheave	3.20	".20
No. 25—Rafter Bracket, steel	.60	".05
No. 25—Rafter Bracket, malleable	.60	".05
No. 23—Swivel Rope Hitch	3.20	".20
Hoisting Single Tree	1.60 ea.	1.25
Rafter Grapple, steel	10.00 doz.	.60
No. 15—Double Harpoon Hay Fork, 25-in. tines	1.60 ea.	1.00
No. 16—Double Harpoon Hay Fork, 31-in. tines	2.00	1.50
No. 17—Double Harpoon Hay Fork, 34-in. tines	2.50	2.00
No. 12—Nellis Single Harpoon Fork	3.00	2.00
No. 42—Snatch Block	11.00 doz.	.75
No. 7—4-Tine Aut. Grapple Fork	7.00 ea.	4.50
No. 8—6-Tine Aut. Grapple Fork	8.50	5.25
Center Trip Sling, 4-ft. bars	3.20	2.00
Center Trip Sling, 5-ft. bars	3.80	2.50
Center Trip Sling, 6-ft. bars	5.00	3.50
Universal Sling Pulley	3.00	2.00
Ideal Sling Pulley	3.00	2.00
Baltimore Sling Pulley	3.00	2.00
No. 21—14-in. Hanging Hook, wood track	1.20 doz.	.08
Hanging Hook, steel track	1.40	.08
No. 20—Floor Hook, 5/8-in.	1.20	.08
Floor Hook, 3/4-in.	1.40	.08
Extra Trips or Stops for Cars	.60 ea.	.50
Couplings for Track	.10	.10
Rafter Nails, per lb.	.10	.10
Steel Track, per foot	.20	.12½



List Price, \$7.00.
 Our Special Price, \$4.25.
 Steel Track, per ft., List Price, 20c.
 Our Special Price, 12½c.
 Special Discount for Cash.

MYERS' WOOD TRACK CARRIER
 List Price, \$7.00.
 Our Special Price, \$4.25.
 Discount for Cash.

Material Required for a Steel Track Outfit.
For a 40-Foot Barn—One Carrier, 40 feet of steel track, 21 hanging hooks, 21 rafter brackets, 5 knot passing pulleys, 1 D. H. Fork, 6 floor hooks, 110 feet 13-16-inch manila rope, 40 feet ¾-inch reverse rope.
For a 50-Foot Barn—One Carrier, 50 feet of steel track, 25 hanging hooks, 25 rafter brackets, 5 knot passing pulleys, 6 floor hooks, 130 feet 13-16-inch manila rope, 50 feet ¾-inch reverse rope.
For a 60-Foot Barn—One Carrier, 60 feet of steel track, 31 hanging hooks, 31 rafter brackets, 5 knot passing pulleys, 6 floor hooks, 160 feet 13-16-inch manila rope, 60 feet ¾-inch reverse rope.



TROLLEY ROLLER-BEARING STEEL BARN DOOR HANGER No. 123 and 123¹/₂

The only difference between the No. 123 and 123¹/₂ is, the No. 123¹/₂ has return apron as shown in No. 224¹/₂ cut below, and the No. 123 has not. Weight, per pair, 10 lbs. Pendant 6 inches long, 3¹/₂ inches wide, 3-16 inch thick. These Hangers have lateral adjustments, and are suitable for doors from 1¹/₂ to 2¹/₄ inches thick. Hangers and track are sold separately. A pair of Hangers consists of two hangers and carriers, one right-end bracket, No. 51; one left-end bracket, No. 50, and one center bracket, No. 52, complete with wood screws for hangers and lag screws for brackets. **When ordering always give thickness of doors, the exact width of opening, and state whether for double or single doors.** No. 131 track, No. 16 gauge, price Nos. 123 and 123¹/₂, each, per pair, \$1.75.

No. 124¹/₂ Roller-Bearing Steel Barn and Fire Door Hanger

A pair of hangers consists of two hangers, one each right and left-end brackets, and one center bracket complete with wood and lag screws. The only Adjustable Double Apron made. Suitable for doors weighing 400 to 600 lbs. Adjustment lateral only. No. 1—For doors 1³/₄ to 2¹/₄ inches thick; weight, 12 lbs. No. 2—For doors 2¹/₄ to 3 inches thick; weight, 12 lbs. **This Hanger has return or double apron. Per pair, \$2.25.**

No. 224¹/₂ Trolley Roller Bearing Steel Barn Door Hanger

Has two adjustments—vertical and lateral. Has return apron same as in No. 124¹/₂, described above. (See cut). Pendant 9 inches long, 3¹/₂ inches wide, 3-16 inch thick. Suitable for doors 2 to 3 inches thick and weighing from 400 to 600 pounds. Made to run on No. 13 track. A pair of hangers consists of two hangers and carriers, one right and one left-end bracket, complete with screws for hangers and lag screws for brackets. **Hangers and track sold separately.** When ordering, always give thickness of door, exact width of opening, and state whether for single or double door. The ¹/₂ in the No. 224¹/₂ signifies the return or double apron. Per pair, \$2.50.



Stay Rollers

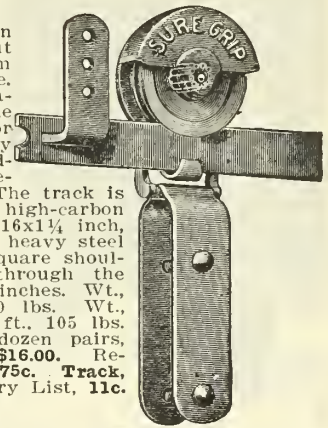
For use on Barn Door Hangers. Price, each, 15c.

No. 131—Track for all of the above Hangers, per foot, 12¹/₂c.
Extra Brackets or any of above Hangers, each, 12c.
One Bracket should be placed every 5 feet.

Flexible Hinge Barn Door Hanger

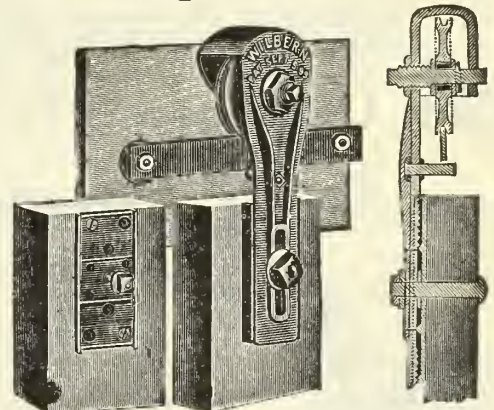
No. 843.

The door can be swung out from the bottom at any angle. The flexible feature allows the top of the door to move away from the building at least one-half an inch. The track is heavy special high-carbon flexible steel, 3-16x1¹/₄ inch, supported by a heavy steel bracket with square shoulder mortised through the track every 17 inches. Wt., dozen pairs, 70 lbs. Wt., track, per 100 ft., 105 lbs. Hangers, per dozen pairs, Factory List, \$16.00. Retail, per pair, 75c. Track, per foot, Factory List, 11c. Retail, 6c.



No. 0 Wilbern Adjustable Barn Door Hanger

Vertical and Lateral Adjustment.

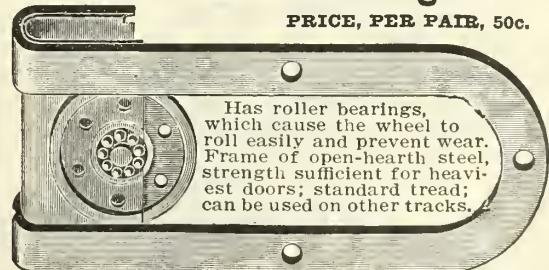


This hanger is designed especially for barn doors and for light factory doors. In the vertical adjustment a half-inch bolt passing entirely through the door is used instead of a cap screw. The plate is fastened to the door with flat-head screws. Will run on any stock track from 1-inch to 1¹/₄-inch wide without jumping. Weight, per dozen pairs, 80 pounds.

ITS MERITS.—It has lateral adjustment, which is secured by a threaded axle. This permits a door to be moved in or out, so that it can be hung close to the wall, or chafing on the wall can be easily corrected. **It has vertical adjustment, which is secured by a plate and a ratchet.** This permits a door to be moved up or down, so that it can be hung close to the floor, or scraping on the floor can be easily corrected. Double doors can be fitted snugly together. **It can't jump the track, being tied on by an adjustable stop, which passes under the rail.** Price, per pair, \$1.00. One-inch Track, per foot, 4c.; 1¹/₄-inch Track, per foot, 6c.

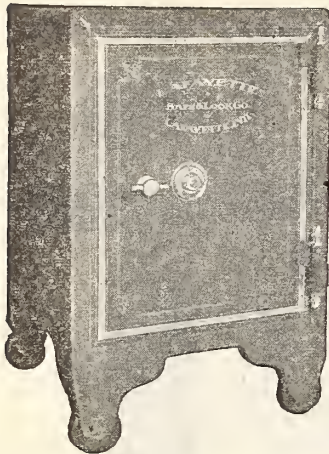
Anti-Friction Barn Door Hanger No. 2

PRICE, PER PAIR, 50c.



Has roller bearings, which cause the wheel to roll easily and prevent wear. Frame of open-hearth steel, strength sufficient for heaviest doors; standard tread; can be used on other tracks.

The track is made of special carbon open-hearth steel, 1x3-16 stock; has heavy brackets well and substantially riveted every 12 inches. Ends made with tongue and groove to match. Track made in 4, 6, 8 and 10-foot lengths. Price, per foot, 4c.



SAFES

For Business and Home Use

The best protection and preservation of money, books and valuable papers from the ravages of **Fire and Thieves**. These safes are the best that skill and experience can produce. They are made of the best wrought steel, and are strong and heavy. All of these safes are secured and protected by the Yale combination lock. Each lock has a large number of different combinations, which can be easily made. Directions with each safe.

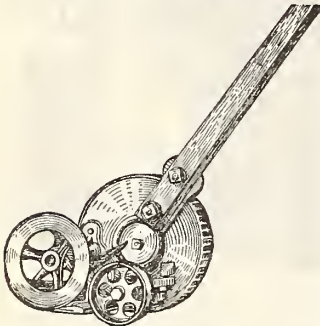
Each safe has one or more of the following, according to size: **Subtreasury, Lock Drawer, Knob Drawer, Pigeon Hole and Book Space.**

No.	Outside Dimensions.			Approximate	Price	Regular
	Hgt.	Width	Depth.	Wgt.	With	Price
	Ins.	Ins.	Ins.	Lbs.	Door.	Price
125	28½	19	18	400	\$30.00	\$28.50
130	31	19	20	600	35.00	32.00
140	34½	23	24	800	48.00	44.00
150	42	27	25	1100	57.00	.....
160	46½	28½	25	1250	65.00	.....
166	49¾	35	25	1650	96.00	.....

Other Sizes, Prices on Application.

The Utica Lawn Trimmer

Price, \$3.50



Made of high quality steel. Cuts every blade of grass left by a lawn mower close to buildings, fences, shrubbery, trees, flower beds, etc. Does better work in one-third the time it would take with shears or grass hooks.

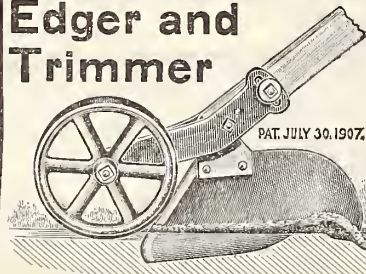
Can be used with one hand. Weighs only 12 pounds. Strong and well made. Knives keen edged with a 5-inch cut. Price, \$3.50.

Barton Lawn Trimmer



Doing away with sickle and shears. No stooping down. Can be worked around where the lawn mower cannot cut. The machine is all ready for use. You get full directions and an emery stone along with each machine, with which it is no trouble to keep it sharp.

"Diamond" Lawn Edger and Trimmer



Price, \$5.00.

For trimming the edges of laws along cement walks, drive-ways and gravel walks, and may also be used for outlining flower beds, of various shapes, such as stars, circles, diamonds, crescents, etc. Price, \$2.00.



STRAP HINGES

	Ligat Strap.		Heavy Strap.	
	List, Doz. Pairs.	Retail, Per Pair.	List, Doz. Pairs.	Retail, Per Pair.
4 in.	\$1.10	10c.	\$1.60	10c.
6 in.	1.70	10c.	2.50	15c.
8 in.	2.40	15c.	4.50	20c.
10 in.	3.30	20c.	6.80	25c.
12 in.	4.90	25c.	10.40	30c.



SCREW HOOK AND STRAP HINGES

6 to 12 inches, per lb.	7c.
14 to 20 inches, per lb.	6c.
22 to 36 inches, per lb.	5c.



T-HINGES

	Light T.		Ex. Heavy T.	
	List, Doz. Pairs.	Retail, Per Pair.	List, Doz. Pairs.	Retail, Per Pair.
4 in.	\$.30	5c.	\$1.10	10c.
6 in.	1.20	10c.	3.00	15c.
8 in.	1.50	15c.	5.00	20c.
10 in.	2.20	20c.	7.40	25c.
12 in.	3.00	25c.	10.70	30c.



HINGE HASPS

3-inch.....	List, Doz. \$.50	Retail, Each \$.05
4-inch.....	.60	.05
6-inch.....	.80	.10
8-inch.....	1.05	.15

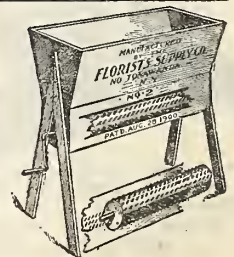
Iron Flat Head Wood Screws

½-inch.		¾-inch.	
List, Gross.	Retail, Dozen.	List, Gross.	Retail, Dozen.
No. 4 \$.75	\$.05	No. 6 \$.85	\$.08
No. 5 .78	.06	No. 7 .90	.09
No. 6 .80	.08	No. 8 .95	.10
No. 7 .84	.09	No. 9 1.00	.10
1-inch.		1½-inch.	
List, Gross.	Retail, Dozen.	List, Gross.	Retail, Dozen.
No. 8 \$1.05	\$.10	No. 10 \$1.30	\$.13
No. 9 1.10	.11	No. 11 1.40	.14
No. 10 1.20	.12	No. 12 1.55	.15
No. 11 1.30	.13		
No. 12 1.40	.14		
1½-inch.		2-inch.	
List, Gross.	Retail, Dozen.	List, Gross.	Retail, Dozen.
No. 11 \$1.50	\$.15	No. 12 \$2.00	\$.20
No. 12 1.65	.16	No. 13 2.25	.22
No. 13 1.80	.18	No. 14 2.45	.24

In Gross Lots, Retail, 60 Per Cent. from List.

Florists' Soil Pulverizer

JUST THE THING
To Pulverize Soil, Crush Sod and Mix Fertilizer. Simple, Durable, Easily Operated. Made in 3 Sizes.
No. 1—6x21-inch roll and 46 inches high. Suitable for houses of 5000 or less feet of glass. Price, \$15.00.
No. 2—6x42-inch roll and 46 inches high. Suitable for larger establishments. Price, \$20.00.
No. 3—Same as No. 2, with one extra roll and two extra side plates for reducing the soil finer. Price, \$30.00.

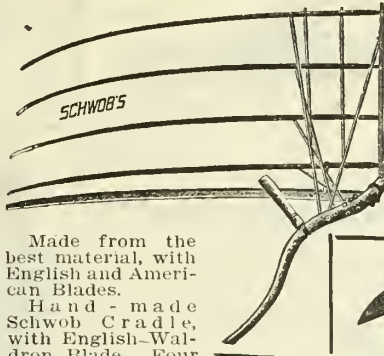


Scythe Stones



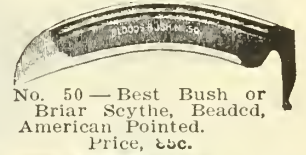
White Mountain. 10c. each.
 Green Mountain. 10c. each.
 Indian Pond, No. 2 (red end), 5c. each.
 Mowing Machine (beveled). 10c. each.
 Darby Creek. 10c. each.
 Imported English Talacre. 20c. each.
 Lectro, 10c. each.
 Emery Scythe Rifles, two-coat. 10c. each.
 Emery Scythe Rifles, three-coat. 10c. each.
 Emery Scythe Rifles, four-coat. 15c. each.

HAND-MADE GRAIN CRADLES



Made from the best material, with English and American Blades.
 Hand - made Schwob Cradle, with English-Waldron Blade. Four finger, \$5.00; Five finger, \$5.25.
 Hand - made Schwob Cradle, with four finger American Blade, \$4.00; Five finger, \$4.25.
 Oil Sprung Cradle Fingers, each, 20c.

WE CARRY IN STOCK ALL SIZES OF ENGLISH WALDRON SCYTHES



No. 52—Weed, Beaded.....85c.

American No. 23.....80c.
 Backs polished, polished web.
 American Grain Scythes, No. 60....\$1.25

English T. Waldron, 36-inch.....\$1.50
 English T. Waldron, 38-inch..... 1.55
 English T. Waldron, 40-inch..... 1.60

English Waldron Grain Scythes, 50-inch..... 1.85
 English Waldron Grain Scythes, 52-inch..... 1.90
 English Waldron Grain Scythes, 54-inch..... 1.95
 German Scythes, No. 4, 34-inch and 36-inch, each..... 1.00

Combination Garden Tool



This is a Hoe, Bake, Weeder and Cultivator in one. It has been devised to meet the scientific gardener's requirements, cultivating at the right place—up to the plant and over the root. This tool is so constructed that it can be used in a comfortable standing position, being an anti-back breaker. Price, 75c.

NOVELTY LAWN WEEDER



A Great Back-Saver.
 The curved edge of the blade enters and loosens the soil; pressure on the lever then causes the toothed jaw to grasp the plant, and a slight pull will dislodge it without disturbing the surrounding sod. Price, 75c.



THE AMERICAN SICKLE EDGE HAY KNIFE
 The best cutting knife made. Right or left hand. Section can be easily replaced. Price\$1.25

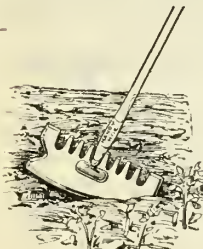


LIGHTNING PATTERN HAY KNIFE
 Price75c.



SCYTHE SNATHS
 Retail Price.
 No. 80—Ring Fastening Socket, iron trimmed.....\$.70
 No. 55—Patent Loop, solid plate, iron trimmed..... .80
 No. 100—Two Rings, Bush Snath..... .90
 No. 105—Patent Bush Snath..... 1.00

Mehler's Handy Hoe



its way until the full width of the hoe has entered the ground. Price\$1.00

Giant Corn Thinner and Weed Puller

With proper care corn may be pulled out of hard ground with no breaking off. No more tired backs, but a pleasure to thin corn. The entire implement is made of steel, except the handle, making it very durable.
 It will be found very useful for taking up all kinds of weeds, briars, narrow plantain, etc.
 Weight, 3 1/2 pounds. Price, \$1.25.

SILVER & DEMING DRILLS



No. 112. SHORT LENGTH.
 Fitting Boynton & Plummer and Silver & Deming Blacksmith's Drill Presses, Nos. 1 and 2, with shanks 1/2-inch diameter.

Diam.	Lg'th in.	List Pr. ea.	Retail Pr. ea.	Diam.	Lg'th in.	List Pr. ea.	Retail Pr. ea.
1-8	4 7/8	\$0.45	\$0.23	13-16	6	\$1.35	\$0.67
5-32	4 7/8	.48	.24	27-32	6	1.40	.70
3-16	5 5/8	.50	.25	7-8	6	1.45	.73
7-32	5 5/8	.55	.28	29-32	6	1.50	.75
1-4	6	.60	.30	15-16	6	1.60	.80
9-32	6	.65	.33	31-32	6	1.70	.85
5-16	6	.70	.35	1	1-32	6	1.80
11-32	6	.73	.36	1	1-16	6	1.90
3-8	6	.75	.37	1	3-32	6	2.00
13-32	6	.78	.39	1	1-8	6	2.20
7-16	6	.80	.40	1	5-32	6	2.25
15-32	6	.83	.41	1	3-16	6	2.30
1-2	6	.85	.43	1	7-32	6	2.35
17-32	6	.88	.44	1	1-4	6	2.40
9-16	6	.90	.45	1	9-32	6	2.50
19-32	6	.95	.48	1	5-16	6	2.60
5-8	6	1.05	.53	1	11-32	6	2.70
21-32	6	1.10	.55	1	3-8	6	2.80
11-16	6	1.15	.58	1	13-32	6	2.90
23-32	6	1.20	.60	1	7-16	6	3.00
3-4	6	1.25	.63	1	15-32	6	3.10
25-32	6	1.30	.65	1	1-2	6	3.20

The above drills have shanks 2 1/4 inches long and 1/2 diameter.

Bit-Stock Drills

FOR METAL OR WOOD, No. 109.



Diameter.	List Price, per dozen.	Retail Price, per dozen.	List Price, Each.	Retail Price, Each.
2-32	\$1.50	\$0.75	\$0.14	\$0.07
3-32	1.65	.85	.16	.08
4-32	2.10	1.05	.20	.10
5-32	2.60	1.30	.24	.12
6-32	3.10	1.55	.29	.15
7-32	3.60	1.80	.33	.18
8-32	4.10	2.05	.38	.20
9-32	4.70	2.35	.43	.25
10-32	5.40	2.70	.48	.26
11-32	6.30	3.15	.54	.27
12-32	7.20	3.60	.62	.31
13-32	8.00	4.00	.68	.34
15-32	9.60	4.80	.82	.41
16-32	10.30	5.15	.87	.45
9-16	14.35	....	1.20	.60
5-8	16.15	....	1.35	.65
3-4	19.75	....	1.65	.85

These Drills will fit any brace on the market. Will drill steel, iron or other metals as well as wood. Will bore any kind of wood without splitting.

GARDEN HOES.

- Each.
- No. G 02—Solid Steel Garden Socket Hoe, XX Handle, \$.55
- G 2—Solid Steel Garden Shank Hoe, XX Handle, .50
- No. R.O.A.—Riveted Shank Garden Hoe, .25
- No. L Y 5—Solid Steel Lady's Shank Hoe, XX Handle, .50
- No. 2 P—Two-Point Solid Steel Weed Hoe, .30
- No. 1 P—Sharp-Point Steel Blade Weed Hoe, .25

PLANTER HOES.

- No. P 7—Heavy Handled Planter Shank Hoe, 7-inch blade, \$.55
- No. P 7½—Heavy Handled Planter Shank Hoe, 7½-inch blade, .60
- No. P 8—Heavy Handled Planter Shank Hoe, 8-inch blade, .65

COTTON HOES.

- No. R. C. 7—7-inch Handled Cotton Hoe, \$.50
- No. R C 7½—7½-inch Handled Cotton Hoe, .55
- No. R C 8—8-inch Handled Cotton Hoe, .60

MORTAR HOES.

- No. 9—9-inch blade, solid steel shank, 5½-foot handle, \$.60
- No. 10—10-inch blade, solid steel shank, 6-foot handle, .75
- No. S 9—9-inch blade, solid socket, 5½-foot handle, .75
- No. S10—10-in. blade, solid socket, 6-ft. handle, .85

STREET HOE.

- No. 12—12-inch blade, steel shank, 6-foot handle, \$.90

SPROUTING HOES.

- No. 64½—Heavy Handled Sprouting Hoe, 4½-in. blade, special temper, \$.65

HEAVY HANDED MATTOCK HOE.

Sharp-pointed like a pick at one end, mattock at the other.

No. 75—Heavy Handled Mattock Hoe, special temper, \$.70

CRESCENT DOUBLE-BIT HOE.

- No. 70—Crescent Double-Bit Hoe, Blades 3¼-inch and 7-inch, \$.60

CRESCENT CULTIVATOR.

- No. 67—7-inch steel blade, 4¾-foot handle, \$.40

DIG-EZY MATTOCK HOES.

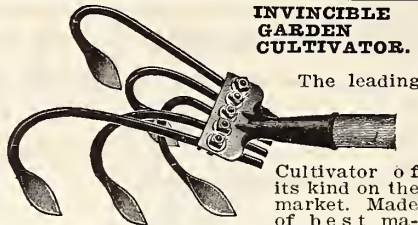
This Hoe is similar to Crescent Double-Bit Hoe, and is made in three sizes.

No. D E 2—1½-in. and 2-in. blades, \$.50c.

No. D E 3—1¾-in. and 3-in. blades, .55c.

No. D E 3½—1¾-inch and 3½-inch blades, .60c.

INVINCIBLE GARDEN CULTIVATOR.



The leading

Cultivator of its kind on the market. Made of best material.

Tines can be adjusted by simply turning a nut. Price, 75c.

"FEATHER-WEIGHT" GARDEN CULTIVATOR.

This is a new tool for maximum surface pulverization and weeding, with lightest weight and least effort.

Made with either 3 or 4 tines and 4½ feet. Ash Handles. Every truck farmer needs one of them.

- No. FW3—3 Broad Oval Prongs, \$.50c.
- No. FW4—4 Broad Oval Prongs, .60c.

EVANS GARDEN CULTIVATOR.

No. EC6—6 steel tines, adjustable, malleable head, common ferrule, 5-foot handle, \$.75c.

THE "VICTOR" GARDEN CULTIVATOR.



The Victor Garden Cultivator is popular because it is made of best material. The shanks and blades are of extra good stock and are easily adjusted.

No. 90—Complete, on 5-foot handle with 3x5 blades. Each, \$1.00

ICE HOOKS.

- No. IH6—6-ft. Hdle., Strapped Ferrule, 65c.
- No. IH7—7-ft. Hdle., Strapped Ferrule, 80c.
- No. IH8—8-ft. Hdle., Strapped Ferrule, 90c.

SIDEWALK CLEANERS.

- No. X 8—8-in. Steel Blade, \$.50c.
- No. OSC7—7-in. Solid Socket; Hdle., .60c.

WARREN HOE.

Very useful in making rows and weeding onions. Hilling, drilling and weeding, covering seeds, etc.

W 7—Polished Steel Garden, \$.80

W 7½—Polished Steel Field, .90

HOE AND RAKE COMBINED

- No. 3 P—Three-Point Steel Weed Hoe and Rake, \$.45c.
- No. 4 P—Four-Point, Steel Weed Hoe and Rake, 50c.

SCUFFLE HOES.

- 4 in., Eng... \$.50
- 6 in., Eng... .60
- No. X G S Brace or Shank Scuffle Hoe, 8-inch Steel Blade, with Handle, .60
- No. 040—Solid Steel, Turf Edger, .55
- No. 39 D—Steel Thistle, Dock Cutter, .65
- 8 in., Eng... .70
- 10 in., Eng... .80

BUSH PULLER.

A great labor saver. Do your grubbing with this tool. One man can do the work of five.

Price \$4.00



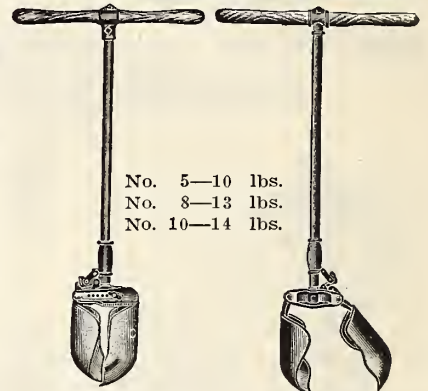
GIBBS' POST-HOLE DIGGER



Digs faster, works easier than any other on the market. All wearing parts have steel pins. Makes a hole of any desired diameter. First-class for tree-planting.

Price \$1.75

THE STANDARD EARTH AUGER



- No. 5—10 lbs.
- No. 8—13 lbs.
- No. 10—14 lbs.

Closed

Open

Prices.

No. 5 bores four different size holes, 5, 6, 7 and 8 inches in diameter, 3½ feet deep. Each, \$2.75.

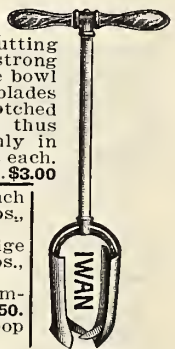
No. 8 bores seven different size holes, 8, 9, 10, 11, 12, 13 and 14 inches in diameter, 3½ feet deep. Each, \$3.00.

No. 10 bores nine different size holes, 8, 9, 10, 11, 12, 13, 14, 15 and 16 inches in diameter, 3½ feet deep. Each, \$3.50.

IWAN'S IMPROVED POST HOLE AND WELL AUGER CONSTRUCTION.

Two crucible steel blades, each with two scientifically formed cutting edges, and riveted to a strong malleable arch, form the bowl of the auger. The two blades interlock, having notched edges for this purpose, thus holding each other firmly in place. Weight, 11 pounds each. Price, 10-inch blades, \$3.00

- Crowbars with Pinch Point, from 20 to 25 lbs., per lb., 6c.
- Crowbars with Wedge Point, from 20 to 25 lbs., per lb., 6c.
- Digging Bar and Rammer combined, each, \$1.50.
- Digging Bar with Loop Handle, each, \$1.50.



MANURE FORK HANDLES WITH PLAIN AND STRAP FERRULE.

- No. X—4½ ft., with plain ferrule, no cap, List, Doz., \$2.95; Retail, Each, 25c.
- No. X—4½ ft., with strap ferrule and cap, List, Doz., \$4.10; Retail, Each, 30c.

MANURE FORK HANDLES.

- Plain, List, Ret'l, Doz. Ea.
- No. X—4½ ft., \$2.20 \$.20

HAY FORK HANDLES.

- Plain, Doz. Ea.
- No. X—6 ft., \$2.60 \$.25
- No. X—7 ft., 3.60 .30
- No. X—8 ft., 5.00 .35

GARDEN HOE HANDLES.

- Doz. Ea.
- No. X, \$1.50 \$.15

EYE HOE HANDLES.

- List, Ret'l, Doz. Ea.
- No. X—5 ft. 2 in. butt, \$2.50 \$.20

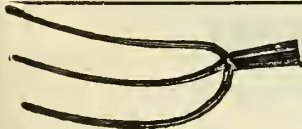
SHOVEL HANDLES.

- Doz. Ea.
- No. X—L. H., 4½ feet, \$3.00 \$.25
- No. X—D. H., 3.50 \$.35
- No. X—D. H., Spade Handles, 3.35 \$.35

RAKE HANDLES.

- List, Ret'l, Doz. Ea.
- No. X—5 ft., \$1.75 \$.15

Hay Forks



- Each.
- No. 26.—1 wo-tine hay, common ferrule, 6-foot straight handle.....\$.75
 - No. 026.—Two-tine, strap ferrule, 6-foot straight handle..... .85
 - No. 027.—Two-tine, strap ferrule, 7-foot straight handle..... .95
 - No. 028.—Two-tine, strap ferrule, 8-foot straight handle..... 1.00
 - No. 36.—Three-tine, 6-foot handle, common ferrule..... .80
 - No. 035.—Three-tine, 5-foot handle, strap ferrule..... .80
 - No. 036.—Three-tine, 6-foot handle, strap ferrule..... .90
 - No. 037.—Three-tine, 7-foot handle, strap ferrule..... .95
 - No. 038.—Three-tine, 8-foot handle, strap ferrule..... 1.00

Long Handle Manure Forks



- Each.
- No. 4 1/2 Z.—Oval, four-tine, light, not strapped.....\$0.60
 - No. 044 1/2 Z.—Four-tine, 4 1/2-foot handle, strap ferrule..... .75
 - No. L 044 1/2 Z.—Four-tine, patent locked, strapped..... .80
 - No. L 044 1/2.—Patent locked, extra heavy, full polished, strapped.... 1.00
 - No. 054 1/2 X.—Five-tine, ferrule, long handle..... .90
 - No. 064 1/2 X.—Six-tine, ferrule, long handle..... 1.10

BACHELOR FORK

- No. 044 1/2.—Four-tine, 4 1/2-ft. handle, strap ferrule..... .75
- No. 44 1/2.—Bachelor Fork, four-tine, 4 1/2-ft. handle, plain ferrule..... .70

D-HANDLE MANURE FORKS

- No. 04DZ.—D Handle, four-tine....\$.75
- No. 4 W.—D handle, four-tine, plain ferrule..... .90
- No. 04 D.—D handle, four-tine, cap ferrule..... .80
- No. 05 D.—D handle, five-tine, cap ferrule..... 1.10
- No. 06 D.—D handle, six-tine, cap ferrule..... 1.15
- No. 151.—Four-tine, diamond tine, heavy, malleable D handle..... 1.25
- No. 1153.—Four 16-inch extra heavy tines, 27-inch wood D handle.... 1.50
- No. 1157.—Five 16-inch extra heavy tines, 27-inch wood D handle.... 1.75

STEEL BARLEY FORKS

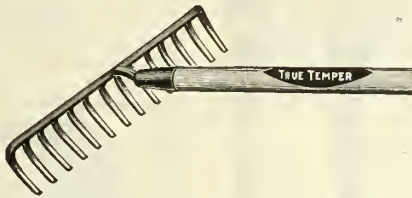
- No. B 185.—Four 18-in. oval tines, plain ferrule, 5-ft. bent handle.\$1.10
- No. B 0185.—Four 18-in. oval tines, strap ferrule, 5-ft. bent handle. 1.25

SPADING FORKS

- No. A H O L W.—Pat. Locked Spading Forks, extra heavy, strap ferrule. Price, \$1.15 each.
- No. H W.—Four-tine, angular back. Price, \$1.10 each.
- No. O L D.—Medium weight, angular tine, malleable D handle, strap ferrule. Price, 85c. each.
- No. S 4.—Columbia Socket, 4 heavy polished angular tines, solid socket, 4-foot handle. Price, \$1.00 each.
- No. S D.—4 heavy polished angular tines, solid socket, iron D handle. Price, \$1.00 each.
- No. J O W.—Jumbo, 4 polished tines, extra heavy strapped ferrule, wood D handle. Price, \$1.10 each.
- No. J O 4.—4 polished tines, extra heavy strapped ferrule, 4-ft. handle. Price, \$1.00 each.
- No. B 4 D.—Boys, four-tine. Price, 55c. each.

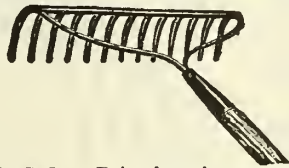


STEEL RAKES



- Each.
- No. 10 C.—Curved tooth, 10-tooth....50c.
 - No. 12 C.—Curved tooth, 12-tooth....55c.
 - No. 14 C.—Curved tooth, 14-tooth....65c.
 - No. 16 C.—Curved tooth, 16-tooth....70c.
 - No. 10.—Straight tooth, 10-tooth....50c.
 - No. 12.—Straight tooth, 12-tooth....55c.
 - No. 14.—Straight tooth, 14-tooth....65c.
 - No. 16.—Straight tooth, 16-tooth....70c.
 - No. 18.—Straight tooth, 18-tooth....80c.

Solid Bow Steel Garden Rakes



- No. B 12.—Prize bow-braced rake, solid steel, 12 teeth. Price, 70c. each.
- No. B 14.—Prize bow-braced rake, solid steel, 14 teeth. Price, 85c. each.
- No. B 16.—Solid bow-braced rake, solid steel, 16 teeth. Price, 90c. each.

MALLEABLE RAKES

- Each.
- No. 10 S M.—10-tooth, single shank..20c.
 - No. 12 S M.—12-tooth, single shank..25c.
 - No. 14 S M.—14-tooth, single shank..30c.
 - No. 16 S M.—16-tooth, single shank..35c.

- No. 10 B M.—10-tooth, braced shank.25c.
- No. 12 B M.—12-tooth, braced shank.30c.
- No. 14 B M.—14-tooth, braced shank.35c.
- No. 16 B M.—16-tooth, braced shank.40c.

EXTRA HEAVY STEEL ROAD RAKES

- No. X 12.—12-tooth.....\$.95
- No. X 14.—14-tooth..... 1.00
- No. X 16.—16-tooth..... 1.10

STEEL ASPHALT RAKES

- No. 914.—14-tooth, strap ferrule....\$1.30

AUTOMATIC SELF-CLEANING LAWN RAKES



A backward motion of the rake from operator will clean all the teeth at once, thus avoiding the disagreeable task of cleaning the teeth with the fingers.

22 Teeth, 60c. Each. 26 Teeth, 70c. Each.

HARVEST RAKES



No. 211.—The malleable brace is fastened to the rake head with two rivets and two extension lugs that grip around the rake head. It has 10 teeth. With Handle, 25c. each.

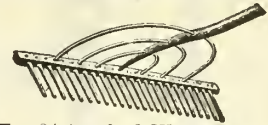
SPLIT HEAD RAKES

- 8-Tooth, All-Wood Hay Rake, 25c.
- 10-Tooth, All-Wood Hay Rake, 30c.
- 20-Tooth, All-Wood Lawn Rake, 50c.

OLE OLSEN LAWN RAKES

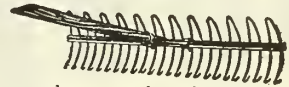
Malleable Ferrule. Price, 50c.

GRITCO WOOD RAKES



- No. 36 X.—24-tooth, 3 Wood Bows...\$.50
- No. 37 X.—24-tooth, 3 Steel Tube Bows..... .50
- No. 06 C.—12-tooth, 2 Wood Bows... .25
- No. 05 B.—12-tooth, 2 Steel Tube Bows..... .40

WIRE LAWN RAKES No. 24



As can be seen by the shape of the teeth, these rakes run smooth and will not dig in the sod. By reversing the double teeth are used for leaves and rubbish, 21-inch head. 24 Teeth, with Handle, 35c. each.

Reversible, Heavily Tinned.

True Temper Garden Outfit

No. T T G O.—7-piece set, consisting of one each extra quality tools, Laid Edge Hoe, Bow Rake, Spading Fork, Weeder, Garden Trowel, Turf Edger and two Stakes with 45-ft. lines. Price, \$4.50.

GARDEN SETS

- No. 3 P F.—3-piece, 5-T Rake, Shovel and Hoe. \$1.00 set.

GENERAL UTILITY FORK



- Each.
- No. 910.—Ten-tine, scoop shape, malleable D handle, strap ferrule...\$1.80
 - No. 912.—Twelve-tine, scoop shape, malleable D handle, strap ferrule. 2.10
- Especially for handling beets, onions, apples, corn, etc. Tine points are flattened and rounded, so as not to injure potatoes, etc.
- No. 714.—Coke Forks, fourteen-tine, D handle, strap ferrule..... 2.30
 - No. 100 S.—Ten-tine, D handle, stone fork..... 1.90
 - No. 102 S.—Twelve-tine, D handle, stone fork..... 2.25

ENSILAGE FORKS

- No. 508 F.—Eight 16-inch tines, strap ferrule, iron D handle, each.\$1.50
- No. 510 F.—Ten 17-inch tines, strap ferrule, iron D handle, each..... 2.00

OAT AND BARLEY FORKS

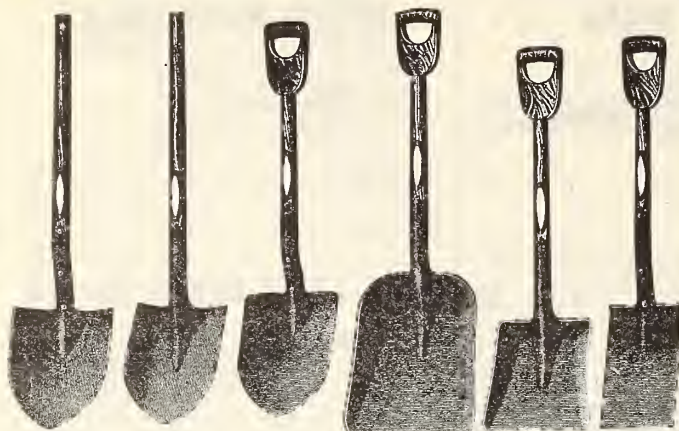


- No. 4 W B.—Price, each.....\$.90
- No. 6 W B.—Each..... 1.10

STABLE FORKS



- Each.
- Three-prong Hickory, Bonner.....\$.80
 - Three-prong Oak Wood Stable Forks..... .75
 - Four-prong Oak Wood Stable Forks. 1.00



No. 542. No. 242. No. 732. No. 263. No. 212 No. 552.

Always Order Shovels and Spades by Number

PLAIN BACK SHOVELS—Carbon Steel

No.	Each.
542 Griteo—Long Handle, Round Point Shovels, Size No. 2.	\$1.00
512 Griteo—D Handle, Square Point Shovels, Size No. 2.	1.00
513 Griteo—D Handle, Square Point Shovels, Size No. 3.	1.05
514 Griteo—D Handle, Square Point Shovels, Size No. 4.	1.10
532 Griteo—D Handle, Round Point Shovels, Size No. 2.	1.00
533 Griteo—D Handle, Round Point Shovels, Size No. 3.	1.05
742 Balto.—Long Handle, Round Point Shovels, Size No. 2.	.75
722 Balto.—Long Handle, Square Point Shovels, Size No. 2.	.75
732 Balto.—D Handle, Round Point Shovels, Size No. 2.	.75
712 Balto.—D Handle, Square Point Shovels, Size No. 2.	.75
713 Balto.—D Handle, Square Point Shovels, Size No. 3.	.80
714 Balto.—D Handle, Square Point Shovels, Size No. 4.	.85
No. 2—Long Handle, Riveted Back, Round Point Shovels.	.60

SNOW SHOVELS Long Handle, Steel Socket....\$0.50

HOLLOW BACK SHOVELS—Carbon Steel

No.	Each.
242 Oriole—Long Handle, Round Point Shovels, Size No. 2.	\$0.60
222 Oriole—Long Handle, Square Point Shovels, Size No. 2.	.60
212 Oriole—D Handle, Square Point Shovels, Size No. 2.	.60
213 Oriole—D Handle, Square Point Shovels, Size No. 3.	.65
214 Oriole—D Handle, Square Point Shovels, Size No. 4.	.70
215 Oriole—D Handle, Square Point Shovels, Size No. 5.	.75
216 Oriole—D Handle, Square Point Shovels, Size No. 6.	.80

HOLLOW BACK SCOOPS

No.	Size.	Each.
263 Oriole—D Handle, Eastern Pattern or Coal Scoop, No. 3.	\$0.70	
264 Oriole—D Handle, Eastern Pattern or Coal Scoop, No. 4.	.75	
265 Oriole—D Handle, Eastern Pattern or Coal Scoop, No. 5.	.80	
266 Oriole—D Handle, Eastern Pattern or Coal Scoop, No. 6.	.85	
274 Oriole—D Handle, West. Pattern or Grain Scoop, No. 4.	.80	
276 Oriole—D Handle, West. Pattern or Grain Scoop, No. 6.	.85	
278 Oriole—D Handle, West. Pattern or Grain Scoop, No. 8.	.90	

Long Handle Scoops same price as D Handle.

PLAIN BACK SPADES

No. 552 Griteo—D Handle Spades, Size No. 2.	Each, \$1.00
No. 554 Griteo—Long Handle Spades, Size No. 2.	1.00
No. 752 Balto.—D Handle Spades, Size No. 2.	.75
No. 754 Balto.—Long Handle Spades, Size No. 2.	.75

HOLLOW BACK SPADES

No. 252 Oriole—D Handle Spades, Size No. 2.	Each, \$0.75
No. 254 Oriole—Long Handle Spades, Size No. 2.	.75

HATCHETS

Beatty's Hatchets. Half Pattern and No. 2 Shingling, best quality, each, 60c.

GRASS HOOKS

Best English Grass Hook—No. 2.	\$0.35
Best English Grass Hook—No. 3.	.50
Best English Hedge or Grass Hooks—No. 4.	.60
Best English Hedge or Grass Hooks—No. 5, riveted back	.75



CORN HOOKS

No. 2—Cast Steel, not finished.	\$0.20
No. 1—Tempered Steel, full polish.	.25
No. 5—Serrated Edge, not adjustable.	.30
No. 6—Serrated Edge, adjustable.	.35
Quynn Corn Chopper.	.30

CORN KNIVES

No. 21—"Will Cut" or Clipper.	\$0.25
No. 23—"Will Cut," Broad, Forged Steel.	.30
Eureka Curved Blade, Forged Steel, Hardened in Oil.	.50

POTATO

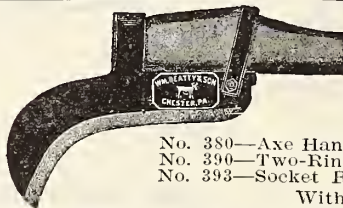
HOOKS



No. 4 B. O. M.—Flat, Oval, 4 Tine, Solid Steel	\$0.60
No. 4 B. O. H.—Heavy Broad Oval Tines, Bent Head, 5-Foot Handle.	.70
No. 5 B. O. H.—5 Tines, Heavy Broad Oval Tines, Bent Head, 5-Foot Handle.	.80

MANURE HOOKS

No. M 40—Four Oval Tines, Bent Head, Plain Ferrule, 6-foot Handle.	\$0.70
No. M 60—Six Oval Tines, Bent Head, Plain Ferrule, 6-foot Handle.	.80



BUSH AND BRIAR HOOKS

No. 380—Axe Handle Bush Hook.	\$0.75
No. 390—Two-Ring Bush Hook.	.75
No. 393—Socket Briar.	1.25

With knife on back.

PICKS, MATTOCKS AND GRUB HOES



No. 1 Griteo—6 to 7, 7 to 8 and 8 to 9 lbs., Best Quality War. Steel Railroad Picks, 75c.

No. 2—6 to 7, 7 to 8 and 8 to 9 lbs., Regular, Iron Railroad Picks, 50c.

No.	Retail.	List.
1—Griteo—5-lb. Best Quality War. Steel Mattocks.	\$0.90	
1—Griteo—6-lb. Best Quality War. Steel Mattocks.	1.00	
2—5 and 6-lb. Best Refined Iron Mattocks (Steel Cutters)	Each, .70	\$17.00
1 and 2 Griteo—Warranted Steel Grub Hoes (Steel Bit)	.65	
1—3½-lb. Best Refined Iron Grub Hoes (Steel Bit)	.45	12.00
2—4-lb. Best Refined Iron Grub Hoes (Steel Bit)	.50	13.00

No.	Retail.
XX—Best Quality Selected Second Growth Hickory Pick Handles	\$0.30
Excelsior—Good Quality White Hickory Pick Handles.	.25
1—Good Quality White and Red Hickory Pick Handles.	.20
2—Mixed White and Red Hickory Pick Handles.	.15

AXES

Our Axes are of best quality. We only sell those we know to be first class, and have an established reputation.

Griteo, Single Bit—3 to 4 lbs., 3½ to 4½ lbs., 4 to 5 lbs., 4½ to 5½ lbs., each, 85c.

Red Warrior, Single Bit, can be had in any weight from 3 to 5½ lbs., each, 85c.

Red Warrior, Double Bit—4 to 5 lbs., \$1.00.

AXE HANDLES

No. E X C—Extra Selected Second Growth, All White Hickory Axe Handles.	\$0.25
No. 1—Selected White Hickory Axe Handles.	.20
No. 2—White and Red Hickory Axe Handles.	.15
No. 3—White and Red Hickory Axe Handles.	.12

WROUGHT SCREW AGRICULTURAL WRENCHES



	6 in.	8 in.	10 in.	12 in.	15 in.
Retail price, each.....	\$0.30	\$0.40	\$0.50	\$0.60	\$0.85
List price, per dozen.....	10.00	12.00	14.00	17.00	24.00

MACHINISTS' KNIFE HANDLE WRENCHES



	6 in.	8 in.	10 in.	12 in.	15 in.	18 in.	21 in.
Retail price, each....	\$0.50	\$0.55	\$0.65	\$0.75	\$1.50	\$1.75	\$2.00
List price, doz....	9.00	10.00	12.00	14.00	24.00	30.00	36.00

STILLSON WRENCHES



Size.	Grips.	List	Retail
6 in.	1/8 wire to 1/2 pipe.	\$2.00	\$.75
8 in.	1/8 wire to 3/4 pipe.	2.00	.75
10 in.	1/8 wire to 1 pipe.	2.25	.85
14 in.	1/4 wire to 1 1/2 pipe.	3.00	1.00
18 in.	1/4 wire to 2 pipe.	4.00	1.30
24 in.	1/4 wire to 2 1/2 pipe.	6.00	2.00
36 in.	1/4 pipe to 3 1/2 pipe.	12.00	4.00
48 in.	1 pipe to 5 pipe.	18.00	6.00

COMBINATION WRENCH



10—Wire or pipe from 1/4 to 1 in. outside diameter. .	\$25.25	\$1.75
12—Wire or pipe from 1/2 to 1 1/4 in. outside diameter	28.50	2.00
15—Wire or pipe from 3/4 to 2 1/4 in. outside diameter	40.50	2.75
18—Wire or pipe from 1/2 to 3 in. outside diameter. .	72.00	5.00

"BULLDOG" WRENCHES



No. 0—Pocket size, 4 in. long. List price, per dozen, \$3.00. Retail price, 15c. each.	
No. 1—5 3/4 in. long. List, per doz., \$4.00. Retail, 20c. each.	
No. 1 1/2—5 3/4 in. long. List, per doz., \$5.00. Retail, 25c. each.	
No. 2—9 in. long. List, per doz., \$12.00. Retail, 60c. each.	

"ALWAYS READY" WRENCHES



Special Steel, Forged, Tempered in Oil.

No. 1—5 in. long. List price, per doz., \$4.60. Retail price, 30c. ea.
 No. 2—7 in. long. List price, per doz., \$6.75. Retail price, 40c. ea.

TWIN WRENCHES



Twin, 10 in. long. List, per doz., \$18.00. Retail, 75c. each.

COLD CHISEL



	1/2 in.	5/8 in.
Retail price, each.....	.10	.15

PUNCH



	1/2 in.	5/8 in.
Retail price, each.....	\$0.10	\$0.15

General Purpose Drop Forged Steel Wrenches



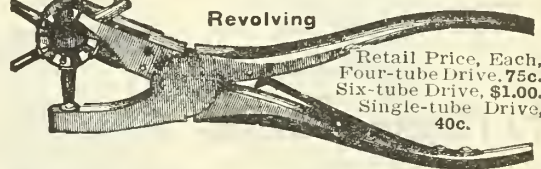
For use in erecting or dismantling plows, carriages, wagons, etc., and for general service where a light and long wrench is desired.

No.	Manufacturers' Standard Nuts, Size Bolts, Inches.	Price, Unfinished, Each.	Price Semi-Finished, Each.	Price Finished, Each.
500	3/16 and 1/4	\$.13	\$.20	\$.26
501	1/4 and 5/16	.17	.25	.34
502	5/16 and 3/8	.22	.33	.44
503	3/8 and 7/16	.28	.42	.56
504	7/16 and 1/2	.34	.51	.68

Finished, per set.....\$2.45
 Semi-Finished, per set.....1.85
 Unfinished, per set.....1.30

A Set Includes One of Each Above Sizes.

BELT PUNCHES



Revolving

Retail Price, Each,
 Four-tube Drive, 75c.
 Six-tube Drive, \$1.00.
 Single-tube Drive, 40c.

Round



Nos. 1 to 6, Retail Price, 10c. Nos. 7 to 9, Retail Price, 15c.



Monarch Riveting Machine

Upper Lever Adjusts the Machine Instantly; Lower Lever Sets the Rivet.

This is the best low-priced Riveting Machine made. Warranted to set Tubular Rivets perfectly. Price, 50c.

Rivets, box of 100.....15c.
 Four boxes.....50c.



MACHINE BOLTS



CARRIAGE BOLTS

Length, Inches.	1/4		5/16		3/8		1/2		Length, Inches.	1/4		3/8		5/16		1/2	
	List, 100.	Retail, Each.	List, 100.	Retail, Each.	List, 100.	Retail, Each.	List, 100.	Retail, Each.		List, 100.	Retail, Each.	List, 100.	Retail, Each.	List, 100.	Retail, Each.	List, 100.	Retail, Each.
1 1/2	\$1.70	\$0.09	\$2.00	\$0.09	\$2.40	\$0.09	\$3.66	\$0.09	1 1/4	\$1.00	\$0.09	\$1.90	\$0.09	\$1.40	\$0.09	\$3.00	\$0.09
2	1.78	.02	2.12	.02	2.56	.02	3.86	.02	1 3/8	1.04	.09	1.96	.02	1.46	.02	3.00	.04
2 1/2	1.86	.02	2.24	.02	2.72	.02	4.12	.02	2	1.08	.02	2.06	.02	1.50	.02	3.00	.04
3	1.94	.02	2.36	.02	2.88	.02	4.38	.03	2 1/8	1.12	.02	2.14	.02	1.54	.02	3.00	.04
3 1/2	2.0	.02	2.48	.02	3.04	.02	4.64	.03	2 1/4	1.16	.02	2.22	.02	1.68	.02	3.00	.04
4	2.10	.02	2.60	.02	3.20	.02	4.90	.03	2 3/8	1.20	.02	2.30	.02	1.70	.02	3.11	.04
4 1/2	2.18	.02	2.72	.02	3.36	.02	5.16	.03	3	1.24	.02	2.38	.02	1.76	.02	3.22	.04
5	2.26	.02	2.84	.02	3.52	.02	5.42	.03	3 1/8	1.28	.02	2.46	.02	1.82	.02	3.33	.04
5 1/2	2.34	.02	2.96	.02	3.68	.02	5.68	.03	3 1/4	1.32	.02	2.54	.02	1.88	.02	3.44	.04
6	2.42	.02	3.08	.02	3.84	.02	5.94	.03	3 3/8	1.36	.02	2.62	.02	1.94	.02	3.55	.04
6 1/2	2.50	.02	3.20	.02	4.00	.02	6.20	.04	4	1.40	.02	2.70	.02	2.00	.02	3.66	.04
7	2.58	.02	3.32	.02	4.16	.02	6.46	.04	4 1/8	1.44	.02	2.78	.02	2.06	.02	3.77	.05
7 1/2	2.66	.02	3.44	.02	4.32	.02	6.72	.04	4 1/4	1.48	.02	2.86	.02	2.12	.02	3.88	.05
8	2.74	.02	3.56	.02	4.48	.02	6.98	.04	4 3/8	1.52	.02	2.94	.02	2.18	.02	3.99	.05
9	2.90	.02	3.80	.02	4.80	.02	7.50	.04	5	1.56	.02	3.02	.02	2.24	.02	4.10	.05
10	3.06	.02	4.04	.02	5.12	.02	8.02	.04	5 1/8	1.64	.02	3.18	.02	2.30	.02	4.32	.05
11	3.22	.02	4.28	.02	5.44	.02	8.54	.05	6	1.72	.02	3.34	.02	2.38	.02	4.54	.05
12	3.38	.02	4.52	.02	5.76	.02	9.06	.05	6 1/8	1.80	.02	3.50	.02	2.40	.02	4.76	.05
13					6.08	.02	9.58	.05	7	1.88	.02	3.66	.02	2.48	.02	4.98	.08
14					6.40	.02	10.10	.05	7 1/8	1.96	.02	3.82	.02	2.54	.02	5.20	.08
15					6.72	.02	10.62	.06	8	2.04	.02	3.98	.02	2.66	.02	5.42	.08
16					7.04	.02	11.14	.06	8 1/8	2.12	.02	4.14	.02	2.78	.02	5.64	.08
17							11.66	.06	9	2.20	.02	4.30	.02	3.20	.02	5.86	.08
18							12.18	.06	9 1/8	2.28	.02	4.46	.02	3.32	.02	6.08	.08
19							12.70	.07	10	2.36	.02	4.62	.02	3.44	.02	6.30	.08
20							18.22	.07		2.52	.02	4.94	.02	3.68	.02	6.74	.08

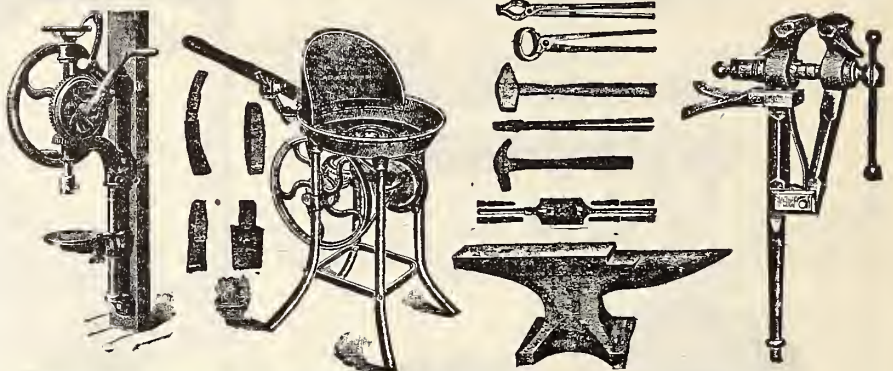
For Other Sizes Write for Prices

For Plow Bolts See Page 95

All 1/4-inch bolts are packed 100 in package. All 5-16-inch, 3/8-inch and 1/2-inch bolts are packed 50 in package.

G. & T. Co.'s Farmers' Handy Outfit of Blacksmith's Tools

Consists of the following: 1 100-LB. **EAGLE STEEL FACE ANVIL**, 1 35-LB. **WROUGHT IRON SOLID BOX BLACKSMITH'S VISE**, 1 (Fig. 731) 80-LB. **DOUBLE GEARED SELF-FEED HAND POST DRILL**, with 8 drills, $\frac{1}{8}$ to $\frac{3}{4}$ " ; 1 (Fig. 915) **PORTABLE FORGE**, 30" high, 22" hearth, 9" fan. Fireplace separate from hearth, which saves breakage in expansion and shrinkage, heats 2" diameter iron to welding heat, has ball-bearing shaft; one set of stocks and dies to cut $\frac{5}{8}$ to 3-16", 1 $\frac{3}{8}$ " hot cutter, 1 $\frac{3}{8}$ " cold cutter, 1 hardie, 1 2-lb. blacksmith's hand hammer, 1 20" straight lip tongs, 1 20" bolt tongs, 1 14" pincers and 1 IXL Farrier's Knife.



SPECIAL PRICE ON COMPLETE OUTFIT AS DESCRIBED, \$40.00.
OUTFIT AS ABOVE, BUT WITH 85-LB. ANVIL AND (FIG. 930) FORGE, \$34.00.

Portable Forges

Fig. No. 907 (cut below).—Height, 30"; hearth, 29 $\frac{1}{2}$ x46"; fan, 15" diameter. List, \$50.00; Our Special Price, \$22.50. With Water Tank, List, \$55.00; Our Special Price, \$27.50.

Fig. 915—As illustrated and described with outfit of Blacksmith's Tools. List, \$24.00; Our Special Price, \$10.00.

Fig. 930—Similar to Fig. 915, but with 18" hearth (not separate) and 8" fan. List, \$14.00; Our Special Price, \$5.75.

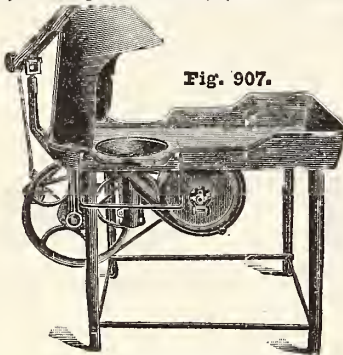


Fig. 907.

FIG. 731—NO. 1 DRILL PRESS.

Floor space over all, 9x16 inches; total height upright column, 1 $\frac{1}{2}$ inches diameter; drive gear wheel, 8 inches diameter; table, 6 inches diameter; greatest distance from spindle to table, 10 $\frac{1}{2}$ inches; fly-wheel diameter, 14 $\frac{1}{2}$ inches. Has extension crank and adjustable feed. Uses $\frac{1}{2}$ -inch straight shank drills. Each, \$6.25. For prices of drills, see page 144.

IXL FARRIER'S KNIVES.

Each 50c.

BLACKSMITH'S TONGS.

Straight Lip, 20 inches. Each..... 25c.
 Round Jaw or Bolt, 20 inches. Each..... 35c.

BLACKSMITH'S PINCERS.

14 inches. Each..... 75c.

BLACKSMITH'S HAND HAMMERS.

No. 191—2 lbs., with Handle. Each..... 50c.

FARRIER'S HAMMERS.

No. 160—Each..... 50c.

STOCKS AND DIES.

No. 37—Cuts $\frac{5}{8}$ -inch to 3-16-inch right hand; 14, 16 and 18-inch threads to the inch; 6 taps and 3 sets dies. Each, \$3.00.

BLACKSMITH'S HARDIES.

No. 18—Shank, $\frac{7}{8}$ inch. Each..... 40c.

BLACKSMITH'S HOT CHISELS.

No. 6—Each..... 40c.

BLACKSMITH'S COLD CHISELS.

No. 5—Each..... 40c.

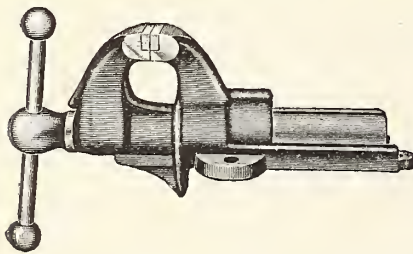
SOLID BOX VISES.

No. 35—Width of Jaw, 4 inches. Each..... \$4.75

ANVILS.

Eagle cast-steel with steel face, 100 lbs. Per lb..... 10c.

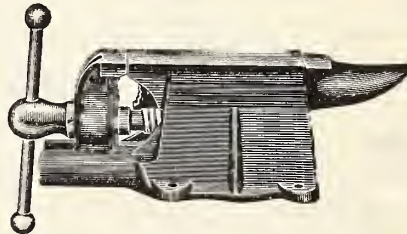
Rock Island Oval Slide Vise



A superior vise in this style. Has tool steel jaws.

No.	Size	Opens	Weight	List Price	Retail Price
361	2 $\frac{1}{2}$ in.	3 $\frac{3}{4}$ in.	8 lbs.	\$2.50	\$1.25
362	3 in.	4 in.	14 lbs.	3.00	1.50
363	3 $\frac{1}{2}$ in.	4 $\frac{1}{2}$ in.	22 lbs.	4.75	2.40
364	4 in.	4 $\frac{1}{2}$ in.	30 lbs.	6.50	3.25

Rock Island Anvil Vise

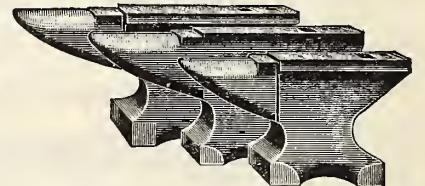


Anvil and vise combined, with jaws for holding pipe.

This vise is intended only for light work. This is the best finished vise of this type on the market. Has steel screw with cut threads, steel nut, and cold-rolled steel handle. Anvil and all finished parts highly polished and lacquered.

No. 380—Width jaw, 3 inches; opens 5 inches; weight, 26 pounds. Retail Price, \$1.50.

ANVILS



These anvils are ideal for farm and shop use.

Eagle cast steel with steel face. 100 lbs., per lb. 10c.

Rock Island Semi-Steel, 50 lbs., 75 lbs., 100 lbs., per lb., 4 $\frac{1}{4}$ c.

Rock Island Steel Beam Swivel Vise

No.	List Price	Retail Price
No. 341.....	\$2.25	\$1.60
No. 342.....	2.65	1.85
No. 343.....	3.00	2.10
No. 344.....	4.50	3.15

OIL CANS

We Carry in Stock a Full Line of Oil Cans for All Kinds of Farm Machinery For Harvester and Other Oils, See Page 165

No. 1100. Straight Spout.

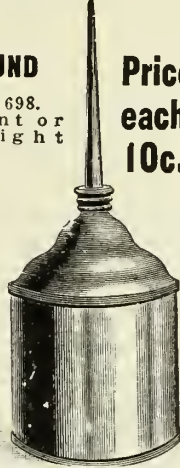
No. 1101. Bent spout. They have large open mouths, and can be easily filled without a funnel.



Price, each, 10c.

ROUND

No. 698. Bent or Straight Stem.



Price, each, 10c.

No. 601. Copperized Steel Mowing Machine Oil.



Bent or Straight Stem, 20c.

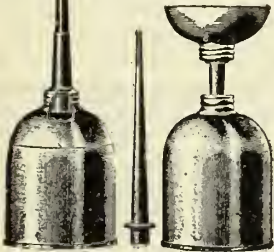
TIN ENGINEERS' OILERS

Prices: 1 pint.....30c. 1 quart.....35c.



WILLIAMSON'S FUNNELKAN

By omitting the nozzle you have a large spout for heavy oil. Can is double at thread, which is a weak point in other oilers, and where nearly all break. Copper-plated. Price, 25c.



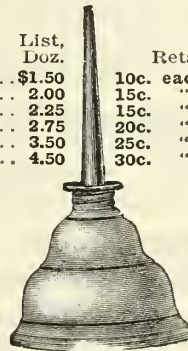
GRITCO Enameled Red, 10c.



No. 701. Copper-plated Steel Mowing Machine Oilers. 15c. each.

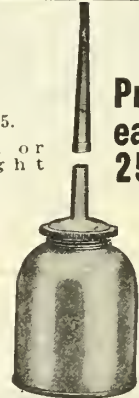
Chace Zinc Oilers

No.	List, Doz.	Retail, 10c. each.
1.....	\$1.50	15c. "
2.....	2.00	15c. "
3.....	2.25	20c. "
4.....	2.75	25c. "
5.....	3.50	30c. "
6.....	4.50	



No. 945. Bent or Straight Spout.

Price, each, 25c.



SEWING MACHINE, No. 29B

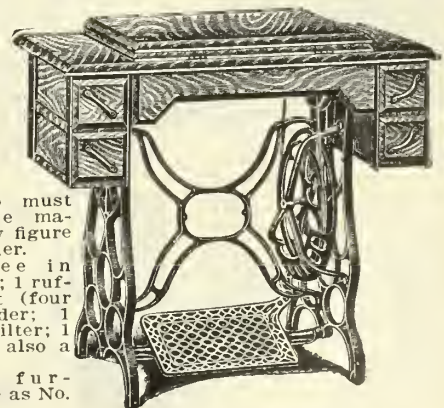
FIRST-CLASS MACHINE FOR LITTLE MONEY. STANDARD FOR QUALITY, SELLS ON ITS MERITS ALONE

Very light running. A beautiful piece of furniture. Specifications: Lift, automatic; Drop head; four drawers; automatic drawer lock. Stand, ribbon pattern; full ball-bearing and steel pitman; extra broad treadle; belt guard to protect skirt. Spool-tray to fit drawers. Attachments, 1 Tucker, 1 Ruffler with shirring plate, 1 Hemmer set (4 widths) and binder, 1 Braider, 1 Thread Cutter, 1 Quilter, 1 Hemmer (which is also a feller). Also furnished free—1 Oil Can (filled), Gauge, 1 gauge screw, 1 Combination Screw Driver, 6 Bobbins and 1 Package Needles, 1 Instruction Book (in 5 languages). **Winning Features: High Arm, Capped Needle Bar and Pressure Foot Bar, Four Motion Feed, Side-disk Tension, Automatic Tension Release, Positive take-up, Automatic Bobbin Winder, Self-threading Shuttle.** Weight, crated, 125 pounds. **Our Special Price, \$30.00.**



STYLE No. 60, NEW MODEL

By no means a cheap affair as far as material, construction, etc., are concerned, but high-grade in every respect. Particularly light running. No. 60 New Model represents the best value obtainable; one who must have a serviceable machine at a very low figure need not look further. Attachments free in metal box; 1 tucker; 1 ruffler; 1 hemmer set (four widths), and binder; 1 thread cutter; 1 quilter; 1 hemmer (which is also a feller). Free accessories furnished are the same as No. 29B. Weight, crated, 110 lbs.



Our Special Price, \$20.00.

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

HAND-POWER HORSE CLIPPING AND SHEEP SHEARING MACHINES

Progressive, up-to-date farmers and horse owners everywhere recognize the advantage of clipping horses.

Stewart No. 1 Enclosed Type Ball-Bearing Clipping Machine

LATEST MODEL.

Has new style rigid base; tubular upright. All gears are cut from solid metal and are enclosed in a dust-proof metal box. They run constantly in a bath of oil, which reduces friction to a minimum. All wearing parts are hardened tool steel. New type, light, easy running, flexible shaft, 6 feet long. Complete, with one set of Stewart one-nut tension knives. Weight, boxed, 36 lbs. Price, each, \$7.50.



1902 CHICAGO CLIPPING MACHINE

STEWART PATENT.

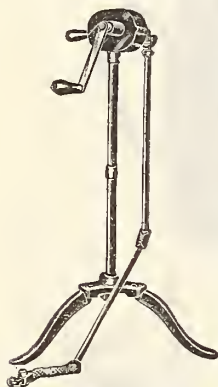
Has positive power; rigid base; fine, strong crank handle; 6½-foot flexible steel shaft. All gears are cut from solid metal and wearing parts all tool steel, hardened. Can be turned with either right or left hand. Complete, with one set of Stewart's one-nut tension knives in case. Weight, boxed, 56 lbs. Price, each, \$10.75.



Shearing Sheep by machine is profitable and humane. It saves ½ to 2 lbs. wool on every sheep, and they are not cut or hacked. Experience is not required to operate the machine.

STEWART No. 8 ENCLOSED GEAR SHEEP SHEARING MACHINE

This Shearing Machine is built on the same lines as the Stewart No. 1 Horse Clipping Machine. The gearing is all of cut steel and is enclosed in a dust-proof metal case, where it runs constantly in oil, thus reducing friction and wear to a minimum. The solid jointed shaft, which is the only type of shaft suitable for sheep shearing, is fitted directly to the gearing. Each machine is supplied with the latest and most improved shearing handle and four knives. The machine turns easily, shears fast and gets more wool from a sheep than it is possible to get by hand shears. Weight, boxed, 40 lbs. Price, complete, with four sets of knives, \$9.75.



STEWART No. 8 COMBINED HORSE CLIPPING AND SHEEP SHEARING MACHINE.

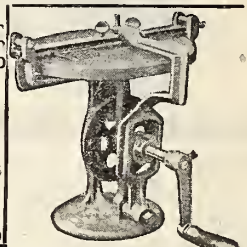
Consisting of No. 8 enclosed gear sheep-shearing machine with complete horse clipper attachment. Price.....\$15.25

MACHINES FITTED WITH STEWART ONE-NUT TENSION KNIFE.

It is impossible for it to get out of adjustment.

PRICE OF PARTS.

- Knife and handle\$3.50
- Top Plates..... 1.00
- Bottom Plates. 1.50
- Shaft and chain, per ft.....\$.75
- Shaft, less chain, per ft. .50
- Chain, per ft. .30
- Handles only... 1.00

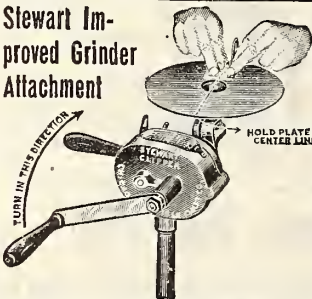


Automatic Shearing Knife Grinder.

Sharpens a sheep shearing knife in a few seconds good as new. No skill required; it is automatic.

Weight, boxed, 36 lbs. Price, fitted for either horse clipper or sheep shearing knives, \$6.00. Fitted for both horse and sheep knives, \$6.50.

Stewart Improved Grinder Attachment



For Horse Clipping and Sheep Shearing Machine Knives.

— May be put on Stewart No. 1 Horse Clipping or No. 8 Sheep Shearing Machine in place of the shaft in a few seconds. Grinds all horse and sheep knives equal to new in a moment's time. No experience required. You can soon save enough in postage and grinding charges to pay for one of them. Besides, you have the knives sharp and in cutting condition when you want them. No waits or breaks caused by carelessness or poor packing, as when sending in the mail for grinding. **Light, Compact, Strong and Durable**, and will wear for years. Illustration shows how it looks attached to machine, and how the knives are held during the grinding process. No delay on account of dull knives if you have one of these grinders. Remember, it's suitable for both horse and sheep knives. Price, \$3.50.

STEWART No. 6 COMBINED SHEEP SHEARING AND HORSE CLIPPING MACHINE.

Consists of the 1902 Chicago horse-clipping machine; complete with shearing attachment, with four cones and four cutters. Price,.....\$18.25

Stewart New Model Sheep Shearing Machine

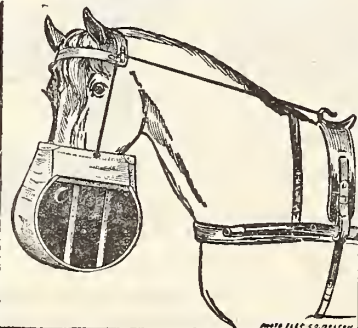
Has positive cut gear drive-wheel, mounted on iron frame. The large gear engages the hardened tool steel pinion which connects with the universal joint flexible shaft having the balance tension knife and handle attached. All wearing parts are made from tool steel and hardened. Weight, 52 lbs.; boxed, 70 lbs. Complete with 4 combs and 4 cutters, each...\$12.75
Extra top plates..... .50
Extra bottom plates..... .50



LIST OF PARTS OF NEW MODEL SHEAR.

- 200 Handle shell. \$2.00
- 201 Leather guard. .15
- 202 L'her washer. .10
- 203 Ferrule. .15
- 204 Long spindle. 1.00
- 205 Cogs. .40
- 206 Tension bolt. .10
- 207 Tension nut. .10
- 208 Eccentric roll. .10
- 209 Yoke. .45
- 210 Lid. 1.00
- 211 Washer. .05
- 212 Tension spring screw. .05
- 213 Lid screws. .10
- 214 Yoke screws. .05
- 215 Stud screws. .10
- 216 Comb. .50
- 217 Cutter. .50
- 218 Tension spring. .15
- 219 Short spindle. .75
- 220 Lacing. .10

WILLIAMS' FEED BAG



Heavy duck with woven-wire sides. It folds into a small space. The best wire-ventilated bag made. Our Special Price, \$1.25.

MODOC FEED BAG. Plain wood bottom, overhead rope, with patent pocket. Our Special Price, 25c.

PIONEER FEED BAG. Patent pocket, bridle and pulley attachments. Patent center grooved wood bottoms and leather ventilators. Our Special Price, \$1.00.

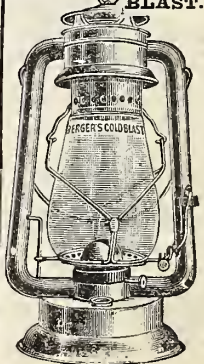
Tubular Lanterns

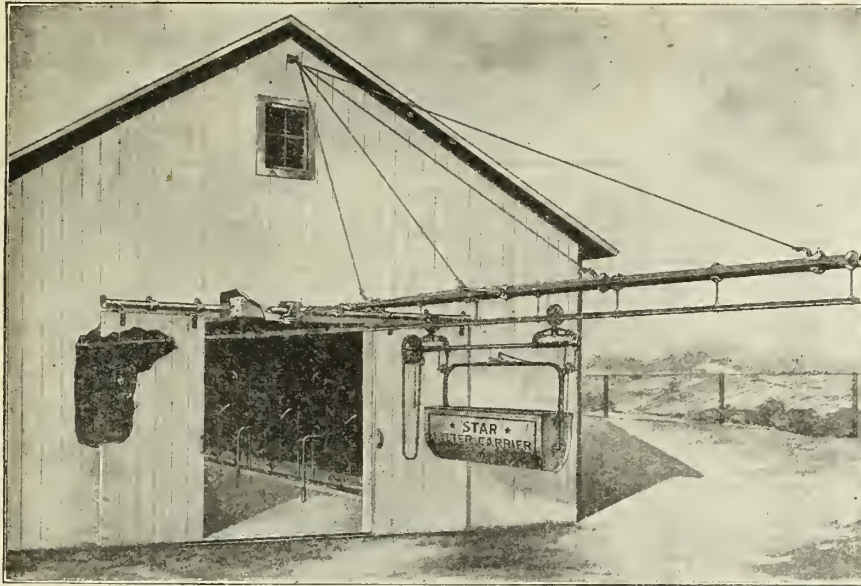
No. 2 COLD BLAST.

No. 0 SIDE LIFT. Patented one-piece crimped tubes. No. 1 burner, ¾-inch wick, No. 0 globe, lock burner, simplicity side lift, retinned and tested founts. Especially designed for severe usage. Price, 50c.

No. 0 DASHBOARD. Furnished in bull's-eye globes, No. 1 burner, ¾-inch wick, No. 0 globe. Price, \$1.00. Hood Reflector Dashboard Lantern. Price, \$1.50.

No. 2 STORM KING COLD BLAST LANTERNS. Clear, white, smokeless light, perfect combustion, fiercest gales cannot blow out, or "fercest" roads jolt out. Price, \$1.00.





Star Litter Carrier and Barn Equipment

Star barn equipment is especially designed for dairy farms where a sanitary and labor-saving equipment is wanted. No more up-to-date conveniences for farms have ever been offered. On account of the very limited space available here, we can only mention the fact that we are offering this leading line of barn equipment, and ask that anyone who is interested in modern barn equipment write to us for special circular. Each year dairy farmers are appreciating more and more the advantages derived from sanitary barn equipment. There are many features in the Star line that cannot be found in any other. Star barn equipment is manufactured in the largest factory in the world devoted to barn equipment, and the manufacturers have specialized on labor-saving, money-making barn equipment for over 30 years. We would like to have you send us a sketch of the floor plan of your barn, showing the length, the breadth, also giving us height of ceiling, the amount of space devoted to stall room, etc., and we will take pleasure in furnishing you with an exact estimate of cost.

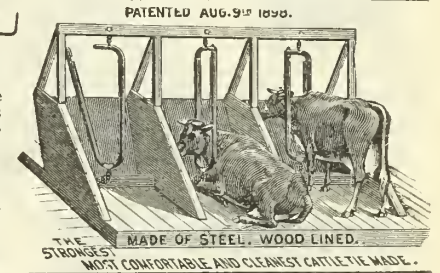
THE BOYLE-TAYLOR STEEL STANCHIONS

The frame of these stanchions is made of 1¼-inch angle steel, lined with wood, and with malleable iron fittings, making a very strong and practically indestructible stanchion, and at the same time a stanchion which is light and comfortable. It is swung on chains at top and bottom, and permits the cow a free and natural movement of the head and neck.

No. 1—Regular Size.....\$1.50 Each. No. 2—Larger Neck Space.....\$2.00.

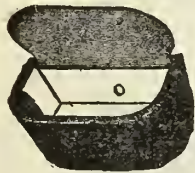
BOYLE STEEL STALLS

The growing demand for a practical steel stall for use in connection with their steel stanchions has resulted in the manufacturers of the Boyle-Taylor Steel Stanchions bringing out a line of steel stalls which have attained great popularity. We would be pleased to quote you special prices on application.

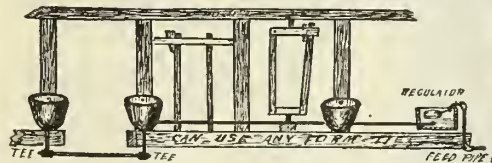
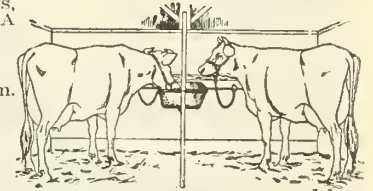


COW BOWLS OR WATER BOXES

With the installation of improved cow stable equipment, these cow bowls, with automatically regulated supply, are being extensively used. A watering device of this kind should be in every stable.



	List Price, Plain.	Our Price, Plain.	List Price, Porcelain.	Our Price, Porcelain.
New Oval Bowl, 12x7¾ ins., 7 ins. deep, 2 gal., weight 11½ lbs.....	\$1.80	\$1.50	\$2.10	\$1.85
Large Oval Bowl, 18x9 ins., 8 ins. deep, 3½ gal., weight 23 lbs.....	2.30	2.00	2.60	2.25
Round Bowl, 10½ ins. diameter, 8 ins. deep, 2 gal., weight 11 lbs....	1.60	1.25	1.80	1.50
Round Bowl, 12¾ ins. diameter, 7½ ins. deep, 3 gal., weight 15½ lbs. 1.80	1.80	1.50	2.00	1.75



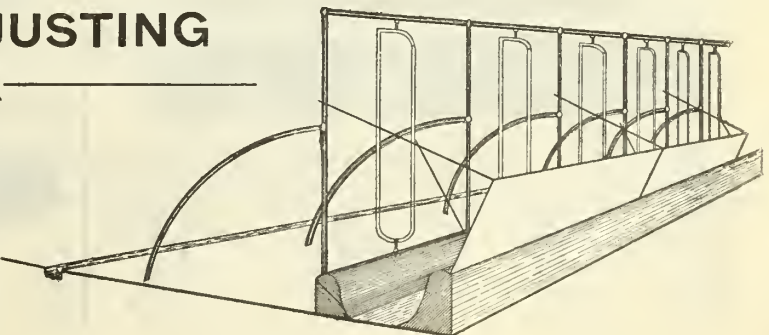
	List Price.	Our Price.
2 gal. lids for round bowls.....	\$.20 Each.	\$.20 Each.
3 gal. lids for round bowls.....	.30 Each.	.30 Each.
2 gal. lids for oval bowls.....	.30 Each.	.30 Each.
3½ gal. lids for oval bowls.....	.40 Each.	.40 Each.
Large Regulator (complete), 28x10x9 ins. deep, weight 34 lbs.....	8.00	6.50
All tapped for 1-in. pipe.		
Galvanized Water Pipe, 1-in., with ¼-in. upright, per stall.....	1.00	.75

Showing Pipe Fastened Back Side and to Stanchion—also how to drop under Passage way

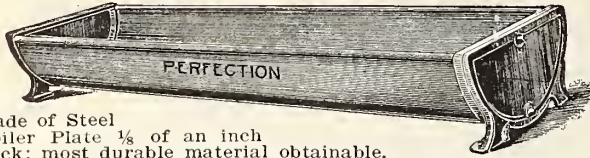
State whether holes to be tapped in bottom or side.

ENGLISH SELF-ADJUSTING FEED RACK

These racks have no equal in simplicity. They are easily operated by hand. As the rack is lifted, it continues to fold, and remains folded when it reaches perpendicular position. When lowered for use, it unfolds automatically. Very sanitary, as there is nothing to catch or hold filth. Can be used on plain concrete floor or with feeding trough, as shown by cut. The true value of these racks cannot be fully appreciated by the feeder until he uses one. With them the feed is always in the proper place, and every particle of grain and hay feed remains within reach of the animal. A great time and labor saver, and beneficial to the stock. Easily and cheaply attached to either wooden or iron posts. One rack extends across two stalls. Price per rack, \$5.50.



RIVETLESS STEEL STOCK TROUGH



Made of Steel Boiler Plate 1/4 of an inch thick; most durable material obtainable. Half Round, which gives them strength; also rendering them easy to clean.

No.	Length	Width.	Depth.	Capacity.	Price.
No. 2.	4 ft.	18 in.	9 in.	28 gals.	\$4.50
No. 2.	5 ft.	18 in.	9 in.	35 gals.	5.65
No. 2.	6 ft.	18 in.	9 in.	42 gals.	6.75
No. 2.	8 ft.	18 in.	9 in.	56 gals.	9.00
No. 2.	10 ft.	18 in.	9 in.	70 gals.	11.25
No. 2.	12 ft.	18 in.	9 in.	84 gals.	13.50
No. 2.	14 ft.	18 in.	9 in.	98 gals.	15.75
No. 3.	4 ft.	20 in.	10 in.	36 gals.	5.10
No. 3.	5 ft.	20 in.	10 in.	45 gals.	6.40
No. 3.	6 ft.	20 in.	10 in.	54 gals.	7.65
No. 3.	8 ft.	20 in.	10 in.	72 gals.	10.20
No. 3.	10 ft.	20 in.	10 in.	90 gals.	12.75
No. 3.	12 ft.	20 in.	10 in.	108 gals.	15.30
No. 3.	14 ft.	20 in.	10 in.	126 gals.	17.85

GALVANIZED WATERING TROUGHS

These troughs will not rust or corrode, and will not damage by freezing.

Length.	Width.	Capacity.	Price.
4 ft.	16 in.	24 gals.	\$5.00
6 ft.	16 in.	36 gals.	6.90
8 ft.	16 in.	48 gals.	9.20
10 ft.	16 in.	60 gals.	11.50
12 ft.	16 in.	72 gals.	13.80
14 ft.	16 in.	84 gals.	16.10
8 ft.	20 in.	80 gals.	10.40
10 ft.	20 in.	100 gals.	13.00
12 ft.	20 in.	120 gals.	15.60
14 ft.	20 in.	140 gals.	18.20
16 ft.	20 in.	160 gals.	20.80

Favorite Galvanized Hog Troughs



Made of No. 20 gauge galvanized steel throughout. Handy, easily cleaned; light, yet very strong. Twelve inches wide, five inches deep.

No.	Length	Weight	List Price.	Our Special Price.
No. 804	4 ft. long	14 lbs.	\$2.60	\$1.60
No. 805	5 ft. long	17 lbs.	3.00	2.00
No. 806	6 ft. long	20 lbs.	3.40	2.25
No. 807	8 ft. long	25 lbs.	4.20	3.00

GALVANIZED HOG TROUGHS

Width, 10 in.; depth, 5 in.; and the lengths, 2, 3, 4, 5, 6, 7, 8, 9, 10 and 12 feet. The capacity is 2 gallons per running foot. WITH ROLLED EDGE, FEE FOOT.....55c.

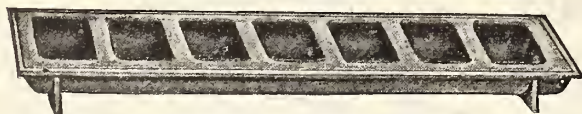


Iron Hog Troughs

No danger in winter for them to burst. Eleven inches wide at top, 2 inches wide at bottom and 6 inches deep. Made in lengths from 2 feet up to 8 feet, every 6 inches. Weight, per foot, 13 lbs. Price, 45c. per foot.

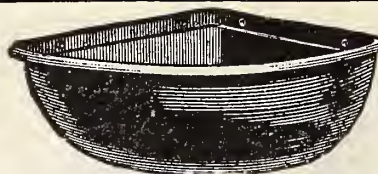
In addition to the Square Cast Iron Hog Trough illustrated above, we have the Round Bottom style, absolutely non-freezable, at 45c. per foot.

Galvanized Iron Poultry Trough



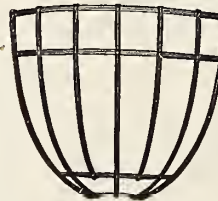
The above cut illustrates our new Galvanized Cast Iron Poultry Trough with lid, making it the best thing of its kind on the market. We sell same both with and without lid at prices given below.

Length, Inches.	Width, Inches.	Price, With Lid.	Price, Without Lid.
6	3 1/2	\$.25	\$.20
12	3 1/2	.40	.30
18	3 1/2	.50	.40
22	6	.85	.75
29	6	1.00	.85



CAST-IRON CORNER MANGERS.

No. 1—16 in. long, 16 in. wide, 9 1/2 in. deep, flat front. Price, \$1.25.
No. 2—17 in. long, 17 in. wide, 10 in. deep, roll front. Price, \$1.50.
Special Prices in Quantities.



CORNER MANGERS

The "Sanitary."

The rim is made of a superior quality of iron. The body of galvanized wrought steel. The Government is using these "Sanitary" Mangers in preference to any other. No. 2—22 quarts, \$1.60.
Special Price in Quantities.

WROUGHT HAY RACKS

Far superior to cast-iron Racks, as frequently used. Price, \$1.75.

CRIMPED STALL GUARDS

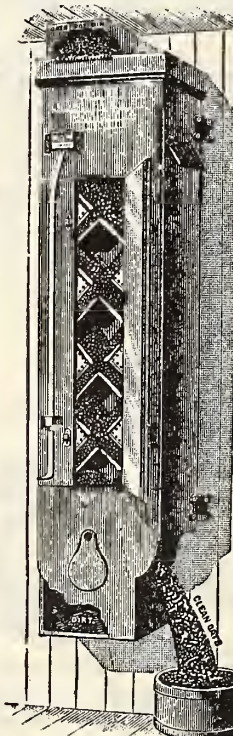


2 1/2-inch diamond mesh, No. 8 steel wire, with 1-inch channel iron frames. O. G. end, oval-banded top, screw holes, bottom end. Six feet long, 25 inches high.

Price, each, \$4.00. Square Crimped Wire Stall Guards, used for box stalls. Give size wanted. Per square foot, 50c.
Square Crimped Wire Stall Guards over 25 in. wide. Per square foot, 60c.

Higbie Self-Acting Oats Cleaner

This cleaner will remove one bushel of dust, dirt, stones, sticks, etc., from every 25 to 30 bushels of cleaned oats; or, in other words, each horse chokes down 7 to 10 bushels of dust, dirt, etc., per year. The dirt box is the base of the Cleaner, and may be emptied through a hand-hole in the bottom. Price, \$18.50.



ROTO SALT FEEDER

Roto Salt Feeder consists of a cylindrical stoneware holder which holds the Roto Salt Cake in such a manner that while it is convenient for horses and cattle, cannot be wasted. Roto Salt Cakes are made of pure refined salt. Very sanitary and easy to clean. Feeders, 25c. each. Salt Cakes, 25c. each.

UTILITY STOCK SALT

Prepared with Hickory Ashes. Answers two purposes at one feeding—salting and administering a valuable tonic.

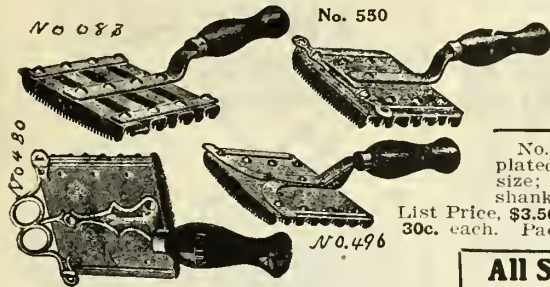
5-lb. can, 50c.; 45-lb. pail, \$3.60; 100-lb. keg, \$7.00; 150 lbs., 1/2 bbl., \$10.50.

Rock Salt and Ground Alum Salt. Prices on Application.

IRON POULTRY TROUGHS



No.	Width Top.	Depth.	Length.	Weight.	Price.
1W	3 1/2 in.	1 1/2 in.	7 1/2 in.	3 lbs.	\$.25
5W	3 1/2 in.	1 1/2 in.	19 in.	6 1/2 lbs.	.40
6W	6 1/2 in.	2 3/4 in.	22 in.	12 lbs.	.80
9W	6 3/4 in.	2 3/4 in.	29 in.	18 lbs.	1.00



No. 550.—All steel, closed back, 6 bars, plain knocker lacquered, enameled handle, brass ferrule, oval face and riveted. Packed one dozen in box. List Price, \$2.00 doz.; Our Special Price, 15c. each.

8 BARS, HAND RIVETED. PATENT APPLIED FOR.
No. 480.—Columbia—Lacquered. Packed one dozen in box. List Price, \$3.00 doz.; Our Special Price, 25c. each.

No. 238.
CYCLONE LEATHER HORSE HALTERS.
One and one-quarter inch. Stitched and riveted, extra strong. List Price, \$2.00 each; Our Special Price, \$1.25 each.

LEATHER COW HALTER.
List Price, \$2.00 each.
Our Special Price, \$1.25 each.

No. 1 WEB HORSE HALTER, Adj.,
with Sisal Lead.
List Price, \$7.20 doz.
Our Special Price, 40c. each.

No. 2 WRB HORSE HALTER, Adj.,
with Sisal Lead.
List Price, \$4.50 doz.
Our Special Price, 25c. each.

ROPE HORSE TIES.
No. 652.—Half-inch Manila, 10 ft. long (2 snaps). List Price, \$4.80 doz.; Our Special Price, 35c. each.
No. 667.—Half-inch XX Sisal, 10 ft. long (2 snaps). List Price, \$4.00 doz.; Our Special Price, 25c. each.

ROPE CATTLE TIES.
No. 652.—Half-inch Manila rope, 8 ft. long, single snap. List Price, \$4.80 doz.; Our Special Price, 30c. each.
No. 655.—Half-inch XX Sisal rope, 8 ft. long, single snap. List Price, \$2.80 doz.; Our Special Price, 20c. each.

RUBBER PAD HORSE SHOES.
Prevent slipping on icy pavements; can not catch in railroad frogs. Largely used on the smooth pavements in Washington. Price per pair of two Shoes.

Size	1	2	2½	3	3½	4	4½	5	6
Medium	\$1.25	\$1.40		\$1.45	\$1.55	\$1.65			
Heavy		1.40	1.40	1.45	1.55	1.65	\$1.75	\$1.90	\$2.05
Heavy hind	1.25	1.40	1.40	1.45	1.55	1.65	1.75	1.90	2.05

HORSE MUZZLES.
Well made and of good stout wire.
Number 18, Plain, List Price, Doz., 76c.; Our Special Price, each, 5c.
Number 16, Braced, List Price, dozen, \$1.50; Our Special Price, each, 10c.
No. 15, Braced, List Price, Doz., \$1.70. Our Special Price, each, 15c.



LOCKS
All These Locks Are Tested Before Leaving Factory.

	List Price, Dozen.	Special Price, Each.
4031—Pressed steel, brass plated, with 2 keys	\$1.80	\$0.10
6166—Green enameled, with 2 keys	2.20	.15
4012—Wrought metal, self-locking, with 2 keys	2.00	.15
1903—High grade bronze, with 2 flat keys	3.80	.20
550—Heavy nickel-plated, with 2 keys	3.60	.20
1902—Bronze metal case, with 2 keys	4.50	.25
4067—Seamless steel shell, with 2 keys	4.50	.25
16022—Wrought steel, six levers, with 2 keys	4.50	.25
1904—Highest grade brass case, with 2 keys	5.40	.30
5057—Wrought bronze, three levers, with 2 keys	5.40	.30
16034—Wrought steel, eight levers, with 2 double fitted drilled barrel keys	7.20	.40
1484—All bronze, smooth finish, with 2 keys	7.20	.40
1610—Heavy all brass, with chain and 2 hand-fitted keys	18.00	1.00
9902—Mail lock, no chain	4.00	.25
9902—Mail lock, with chain	6.00	.35

CURRY COMBS.
No. 494.—All steel; closed back; galvanized; guaranteed not to rust; extra large size; oval face; 8 bars; double braced shank extending through handle and riveted. List Price, \$3.50 doz.; Our Special Price, 30c. each. Packed 12 in a box.

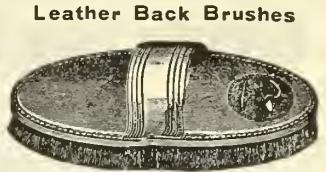
No. 495.—All steel closed back; bronze-plated; guaranteed not to rust; extra large size; oval face; eight bars; double braced shank extending through handle and riveted. List Price, \$3.50 doz.; Our Special Price, 30c. each. Packed 12 in a box.

All Steel, Closed Back

No. 496.—All steel closed back, lacquered, extra size, oval face, curved knockers, braced shank, extending through handle and riveted, enameled handle, brass ferrule, 8 bars. Packed one dozen in a box. Cases made for 24 dozen. List Price, \$3.00 dozen. Our Special Price, 25c. each.

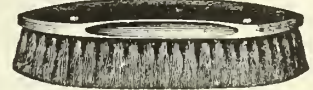
No. 083.—All steel, open back, 8 bars, plain knocker, japanned, carmine handle, steel ferrule, oval face, shank running through handle and riveted. Packed one dozen in box. Cases made for 24 dozen. List Price, \$1.50 dozen. Our Special Price, 15c. each.

No. 490
Eight Bars, Extra Heavy.
All steel shank runs through handle and is riveted. Packed one dozen in box. List Price, \$3.20 dozen. Our Special Price, 25c. each.



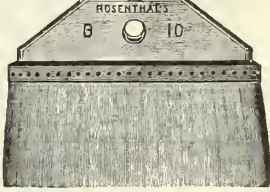
Leather Back Brushes

	List Price	Our Special Price
No. 167.—Patent Leather Back	\$9.00	\$0.50
No. 333.—Yellow Leather Back	10.00	.60
No. 50.—Yellow Leather Back	13.00	.75
No. 443.—Russet Leather Flexible Back, Army	20.40	1.00
No. 226.—All Bristle, Russet Leather, Flexible Back, Army	24.00	1.25
No. 225.—All Bristle, Leather, Flexible Back	30.00	1.50
No. 442.—Warranted all white bristle	38.00	2.00



DANDY BRUSHES

	List Price	Our Special Price
No. 4—Palmetto Dandy	\$3.00 doz.	\$0.20 ea.
No. 805—Palmetto Dandy	4.50 doz.	.25 ea.
No. XX—Palmetto Dandy	7.00 doz.	.40 ea.



Whitewash Brushes

	List Price	Our Special Price
No. 7—Family	\$2.88	\$0.15
No. 5—Daisy	5.60	.30
No. 1—Columbia	12.00	.60
No. 2—Columbia	16.80	.90
No. 30	24.00	1.25
Crown	30.00	1.50
*** Extra	46.80	2.25
3 Triangle Extra	51.60	2.50



The Dresher R. F. D. Mail Box

Will last a lifetime and sells at sight. Made of 20-gauge galvanized iron, painted aluminum, absolutely storm-proof, perfect in operation, positive locking signal in either position—up or down, weather-proof slot in door for depositing the mail without unlocking the box. No rivets or bolts required to set it up. Slide the bottom in grooves—that's all.

When the patron nails the box on a post this fastens the box so that it cannot be taken apart. One half-dozen to a crate. Shipping weight, 72 pounds to the dozen. Size, 7x8x19 inches.

List Price, \$1.20 each; Our Special Price, 75c. each.



Cast Aluminum Scoops

MADE OF PURE ALUMINUM, CAST IN ONE PIECE, LIGHT AND CONVENIENT—ABSOLUTELY INDESTRUCTIBLE.

	List Price	Our Special Price
No. 1—Size 4x11 inches, each	\$2.00	\$1.25
No. 2—Size 5x12 inches, each	2.40	1.50
No. 3—Size 5½x14 inches, each	2.80	1.75
Per set	7.20	4.50

CRESCENT GALVANIZED STEEL SCOOPS

Siemens steel, extra galvanized, non-corrosive. Hard maple heads and handles.

	List Price, Doz.	Our Special Price, Each.
No. 3—Capacity, 2½ lbs.	\$4.50	\$0.25
No. 4—Capacity, 3½ lbs.	5.00	.30
No. 5—Capacity, 4½ lbs.	6.50	.35
No. 6—Capacity, 5½ lbs.	8.00	.40

Adjustable Storm Front



Is strictly adjustable. One size will fit any piano-box buggy. One size fits all Phaetons, Stanhopes, etc.

The material is Calendered Rubber Cloth, strong and durable. The window is 12x20 inches, made of fine celluloid, as transparent as any window glass.

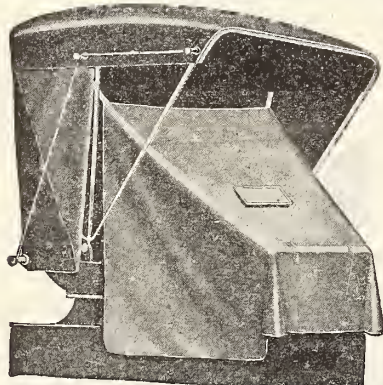
The line hole is 10 1/2 inches long, has a light metal edge, so the reins cannot tear out or sag the cloth. It has a broad flap that prevents the entrance of water, wind or snow.

BUGGY SIZE.

No. 12—Black Rubber, 28 oz. \$3.50

Can furnish cheaper storm fronts, but do not carry them in stock.

Adjustable Storm Aprons



These Aprons are made of the best material. They are fastened to the dash by two steel clamps shaped like clothespins.

No. 52—22-oz. Black Rubber. Size, 50x54 inches. \$1.35

No. 57—28-oz. Black Rubber. Size, 50x60 inches. \$1.80

No. 59—28-oz. Melodeon. Size, 50x60 inches. \$2.00

DUST HOOD

NO MEASURING REQUIRED.

This Dust Hood will fit any buggy top from 36 to 44 inches wide, and it looks better than a made-to-order hood.

The objection to most hoods is the wrinkles and puckering. All this has been done away with.

No. 8—Black Rubber, 22 oz. \$1.50



(Kilfly) is a liquid mixture designed to protect cows and horses from torture of flies.

The preparation is positively harmless. It is used with splendid results as a disinfectant and germicide. If your animals are troubled with lice, use SO-BOS-SO (Kilfly). Spray your poultry-house with SO-BOS-SO (Kilfly). It kills lice or any vermin that may infect the fowls. Put up in one-gallon cans. Price, 75c. per gallon.

Sprayer for applying So-Bos-So, 50c.

COW-EASE

A preparation to prevent fly-pest on cattle and horses.

Contains nothing injurious, protects your stock from flies, lice, ticks and vermin.

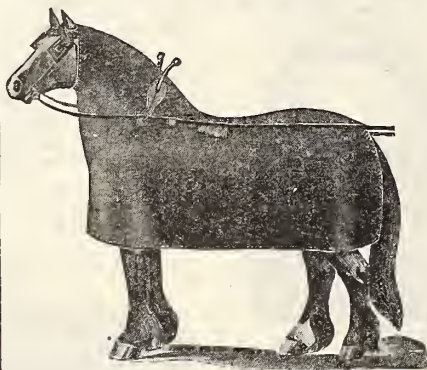
It does not gum the hair.

Prices:

Quart, 40c.; 1/2 Gallon, 60c.; Gallon, \$1.00; 5-Gallon Can, \$4.50.

Sprayer for applying Cow-Ease, 50c.

Horse Covers

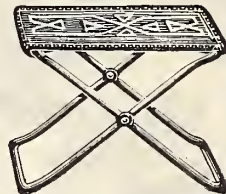


All covers have large hame leathers; line rings riveted on hame leathers; snap and rings at trace; strap and buckles at breast; line pocket at saddle, and can be used for double or single team. Size: 5 feet 4 inches.

No. 75—Brown Oiled Duck, to neck, \$3.00.

No. 76—Brown Oiled Duck, to head, \$3.50.

THIRD SEAT



A Third Seat allows three people to ride comfortably in any carriage. It is also very useful about the house as a stool or child's seat. Being made of selected material, it is strong and durable. It is simple in construction, and cannot get out of order.

No. 11, Oxidized, Brussels Carpet, Price, 60c.

FOLDING CHAIR

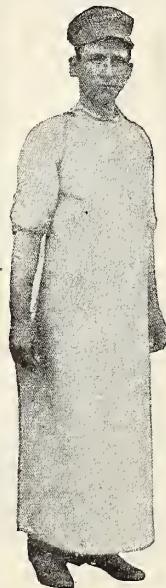


Is very simple, there being no springs, screws or bolts to cause trouble.

This Folding Chair is made of the best material, and fills a real want. It allows the automobilist to increase the capacity of his car without crowding, and is an ideal chair for motorboats. It can be folded sufficiently small to be carried under the seat of an automobile or stowed under the bow of a motorboat.

No. 106—Japanned Art. Leather, Price, \$1.75.

WATERPROOF APRON



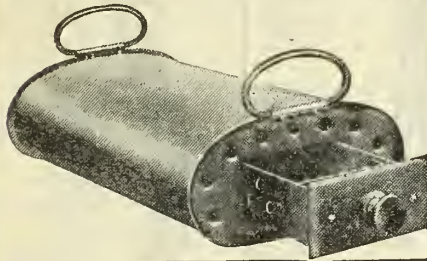
These Kitchen Aprons are the best that can be had. They are absolutely water and grease-proof. Extensively used by liverymen, butchers, druggists, chemists, brewery-men and ice-men. Also used by housewives when doing ordinary work in the kitchen. Size, 36x48 inches.

No. 87—Brown Water-proof Duck, \$1.50.

No. 88—White Duck, \$1.50.

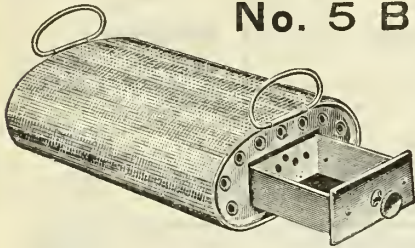
AUTOMOBILE AND CARRIAGE HEATERS

THE LEADER



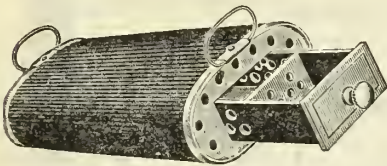
The **Leader** is a splendid new all-metal heater that always gives satisfaction. This new heater is made entirely of metal; is strong and durable; cannot be bent or broken; oval pattern, 12 inches long; weight, 4 lbs. **Price, \$1.00.**

No. 5 B



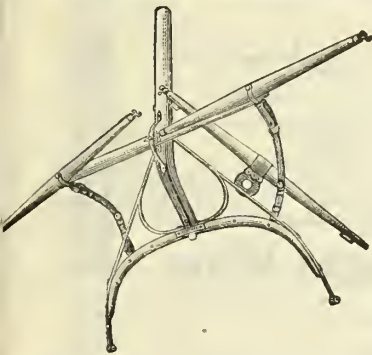
Strong, Ornamental, Convenient.
No. 5 B—Clark Heater, 12 inches long; otherwise same as 3 D, except carpet is not braid-bound. Weight, 4 lbs. **Price, \$1.50.**
No. 5—12 inches long, white metal ends, not covered, \$1.25.

No. 3 D



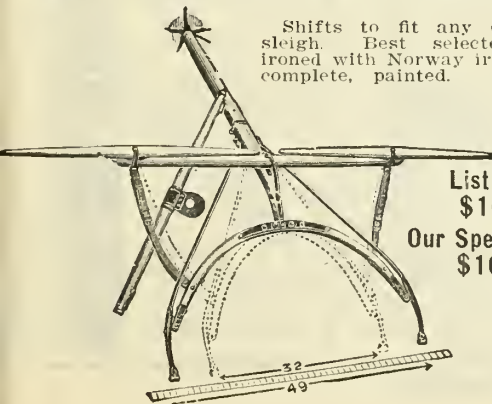
No. 3 D—Clark Heater, 11 inches long, sheet metal case, stamped white metal ends, covering of braid-bound Brussels carpet. Weight, 7 lbs. **Price, \$2.00.**

"Baltimore" Ironed Carriage Pole



Is well ironed with wrought iron tees; heavy drop-forged stay irons. In every way suitable for medium grade work. Prices are for Pole complete, which includes neck yoke, double and single rees and check straps. Ironed, complete, painted. **List, \$11.00. Our Special Price, \$6.50. Dayton Pole, List, \$12.00. Our Special Price, \$7.00.**

No. 1 Patented Shifting or Adjustable Pole



Shifts to fit any carriage or sleigh. Best selected timber; ironed with Norway iron. Ironed, complete, painted.

List Price, \$16.00.
Our Special Price, \$10.00.



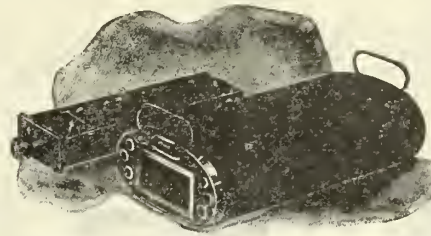
No. 7 D



No. 7 D—Clark Heater, 14 inches long, nickel-plated steel ends, heavily reinforced, covered with Brussels carpet, slanting top, adjustable side and end ventilators. Can be regulated so as to increase or diminish the

heat or entirely stop combustion and save coal for future use. **Weight, 7 lbs. Price, \$2.25.**

No. 1



No. 1—Clark Heater, 14 inches long, ends of heavy cast metal, nicely polished and nickel-plated. Is made extra strong and heavy, and cannot be crushed, or even bent. It is covered with royal velvet carpet, underneath which is a special asbestos packing, which makes

scorching of carpet impossible. **Weight, about 10 lbs. Price, \$3.00.**

PREPARED COAL



One cake will last 15 to 16 hours. No smoke, odor, flame or gas. **Price, case of one doz. cakes, 75c. Per case of 100 bricks, \$6.00.**

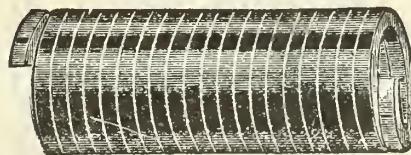
A B C COAL.—Per dozen, 60c. Case of 100 bricks, \$4.80.

SHAFTS



Ironed, complete, painted, for Buggies. **List, \$7.00. Our Special Price, \$4.25.**
 Ironed, complete, painted, for Daytons and Surreys. **List, \$8.00. Our Special Price, \$5.00.**

COIL AXLE WASHERS



100 Washers in a Box.

$\frac{3}{4}$ -inch, per box, **List Price, 30c.; Our Special Price, 20c.**
 1-inch, per box, **List Price, 32c.; Our Special Price, 20c.**

Solid Cut Axle Washers

	List Price.	Our Special Price.
5 Sets in a Box.		
$\frac{3}{4}$ inch, per box.....	\$.34	\$.20
$\frac{7}{8}$ inch, per box.....	.38	.25
1 inch, per box.....	.44	.30
1 $\frac{1}{4}$ inches, per box.....	.50	.30
1 $\frac{1}{2}$ inches, per box.....	.56	.35

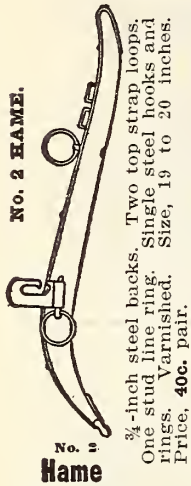
Star Shaft Coupler and Anti-Rattler

Simplest, safest and strongest coupler made. No rivets or joints to wear out or break. **List Price, dozen pairs, \$4.00; Our Special Price, per pair, 25c.**

HITCHING POST

This Hitching Post is made of steel pipe. Equipped with wrought iron base and heavy ball. It cannot be pulled out or broken. **List Price, \$4.50; Retail, \$3.00.**

No. 2 HAME.



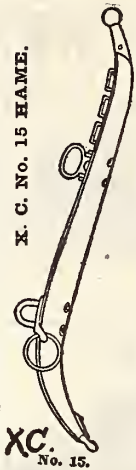
No. 2 Hame

¾-inch steel backs. Two top strap loops. One stud line ring. Single steel hooks and rings. Varnished. Size, 19 to 20 inches. Price, 40c. pair.

No. 1 HAME.

Same as No. 2, except it has three top strap loops instead of two, as above. Price, 50c. pair.

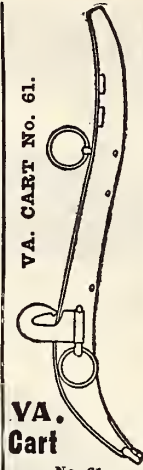
X. C. No. 15 HAME.



X. C. No. 15

Has hook in wood instead of clip, as shown in cut. Rock elm wood. ¾-inch steel backs. Three top strap loops. Two stud line rings. Clip staples and holdbacks. Double steel hooks and rings. X. C. ball, painted red. Size, 19 to 21 inches. Price, 75c. pair.

VA. CART NO. 61.



VA. Cart No. 61

Rock elm or ash wood. ¾-inch stiff-bottom loops. ¾ x ¼-inch steel backs. Three mortise top loops. Heavy wrought steel hooks. Varnished. Polished irons. Size, 19 to 22 inches. Price, 80c. pair.

QUEEN CITY HAME.

Patented adjustable malleable draft hook. Rock elm, 19 to 21 inches. Job Lot. Pair, 50c.



Root and Sawed Hames

Per Pair.
Loudon Patent.....\$1.00
Loudon Tie......75
Taylor Root Patent......60
Taylor Root Tie......50
Special prices for both wholesale and retail dealers.

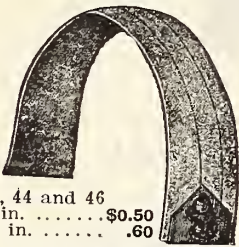
BALTIMORE STRAP HAME.



Baltimore Strap

¾ x 7-32-inch flat steel, selected second growth, air seasoned timber, extra wide woods, superior finish, hand forged, extra heavy steel hook, 17 to 24 inches. Per pair, \$1.00.

FOLDED DUCK BACK BANDS.



42, 44 and 46 in. \$0.50
48 in.60

Boss Back Band Hooks.
Per pair, 3 ½ in. \$0.10
Per pair, 4 in.12

DODSON'S IMPROVED FLAT LINK STEEL HAME CHAINS.



Fits all work Hames. Perfect in construction and operation. Can be fastened in half the time required to fasten a hame strap.

Snap into off hame loop, hook into right hame loop and pull up same as leather strap. Put finger in ring and pull up tight. 25c.

REGULAR IRON TRACE CHAINS.

6 ½-10-3	List Price, \$1.00 pair.	Retail Price, \$0.40 pair.
- 8-3	List Price, 1.06 pair.	Retail Price, .45 pair.
-10-3	List Price, 1.23 pair.	Retail Price, .50 pair.
-12-3	List Price, 1.45 pair.	Retail Price, .60 pair.
-14-3	List Price, 1.75 pair.	Retail Price, .70 pair.
-16-3	List Price, 2.15 pair.	Retail Price, .80 pair.

BUTT CHAINS.

3 ½ ft.-12-3	Per Pair.....\$.30
3 ½ ft.-14-3	Per Pair..... .40
3 ½ ft.-16-3	Per Pair..... .50

SPREADER CHAINS.

Straight Link Slack Spreader Chain, 5-16, \$1.50. ¾ \$1.75
¾ Close Link Straight Spreader Chain, for two horses, with three hooks, each..... 2.50

LOG CHAINS.

	List Price.	Retail.
Long Link Log or Ox Chain, ¾ in., 12 or 14 ft.....	\$.15 ½ lb.	\$.08
Long Link Log or Ox Chain, ½ in., 12 or 14 ft.....	.14 ½ lb.	.08
Long Link Log or Ox Chain, ¾ in., 12 or 14 ft.....	.14 lb.	.07

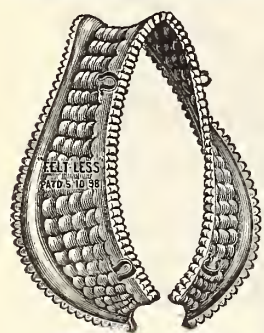
CHAIN REPAIR LINKS.

Chain Repair Links, ¼ or 16-2, doz., 15c. 9-32 or 10-1, doz.....\$.20

OPEN SIDE LAP LINKS.

Open Side Lap Links, polished, ½ x 2 ½, each, 8c. ¾ x ½, each.....\$.10
Open Side Lap Links, polished, ¾ x 3, each..... .12
Open Side Rings, ¾ x 2 ½, 6c. ½ x 2 ½, 8c. ¾ x 3..... .10

Sweat Pads—Feltless



Pinked, Felt Edges, Composite Filling, Four Hooks. Old Gold Drill; best on the market. 50c. Cheaper Old Gold, 40c.

BROWN AND WHITE DRILL PADS.

10-inch.... 25c. 12-inch.... 30c.

WEB BACK BANDS.

No. 1—3 ½-in., 42-in. long....	\$0.20
No. 1—4 in., 42-in. long....	.25
No. 2—3 ½-in., 42-in. long....	.15
No. 2—4 in., 42-in. long....	.20

HAME STRINGS. Black.

¾ x 42-inch slit, each.....	\$0.10
¾ x 42-inch slit, each.....	.12
Rawhide.	
¾ x 42-inch slit, each.....	.10

RAPID HARNESS MENDER.

100 to the box. Price, 10c. per 100; by mail, 15c.

BROWN STEEL COW TIES AND HALTER CHAINS.

No. 3-0—Brown Steel Cow Ties (Ohio pattern), each.....	\$0.25
No. 4-0—Brown Steel Cow Ties (Ohio pattern), each.....	.30
No. 3-0—Brown Steel Halter Chains, 4 ½ feet.....	.25

TRIUMPH CHAINS.—Very light; possess great strength; all links have equal strength. Do not kink; no welds to give way; no sharp edges.

No. 3-0—Triumph Cow Tie (Ohio pattern), each, 35c.	4-0-0.....\$0.40
No. 3-0—4 ½-ft. Triumph Halter, each, 35c.	6-ft..... .40
No. 1—20-ft. Triumph Tethering Chain, each.....	.95
No. 0—20-ft. Triumph Tethering Chain, heavy, each.....	1.10
No. 0—30-ft. Triumph Tethering Chain, each.....	1.30

BREAST CHAINS.

26-inch—5-16-in. iron, double twist, tapered, stiff, pair....	\$1.25
26-inch—¼-in. iron, double twist, not tapered, stiff, pair..	1.00
27-inch—Double slack, twist, pair.....	.50
26-inch—12-2, single slack, pair.....	.50
No. 46—Cart Tug Chains, 18-10-1, per pair.....	.30

No. 67—**FIFTH CHAIN.**—Round hook, ring and swivel, bright or black, made with stretchers also if desired. 10x¾, with Reg. Hook, per lb., 9c.

Carriage and Wagon Whips

No. 18—Black; plain; straight; Java; loop snap; 5 ½ feet. List Price, doz., \$1.60. Our Special Price, each, 10c.
No. 23—**Royal.** Black; waterproof finish; two buttons; loop snap. List Price, doz., \$2.50. Our Special Price, each, 15c.
No. 466—**Java Cab.** Linen color; oiled cover; plain through; 2 ½-ft. drop top; 2¾-ft. stock. List Price, doz., \$2.50. Our Special Price, each, 15c.
No. 124—**Eel Skin Rawhide,** 6 feet. (A Whip to stand hard usage). List Price, doz., \$4.50. Our Special Price, each, 25c.
No. 282—**Coach,** 5-ft. handle, plaited lash. List Price, doz., \$5.60. Our Special Price, each, 30c.
No. 246—**Magic or De Soto.** Rawhide; black; rubber cap; 2-inch ring head button and 2 ½-inch ring thumb button; Philadelphia snap; 6 ft. List Price, doz., \$5.50. Our Special Price, each, 50c.
No. 286—**Brunswick.** Extra rawhide; black; 3 feet; rubber lined; rubber cap; two buttons; English silk snap; 6 feet. List Price, doz., \$13.00. Our Special Price, each, 75c.
No. 376—**The Sirenia Whip.** Black; two buttons. Far superior and tougher than whalebone or rawhide. The best dollar whip on the market. The cut represents this whip. List Price, doz., \$18.00. Our Special Price, each, \$1.00.
No. 1100—**Holly** handle, plaited, 5-ft. handle (extra fancy). List Price, doz., \$20.00. Our Special Price, each, \$1.25.

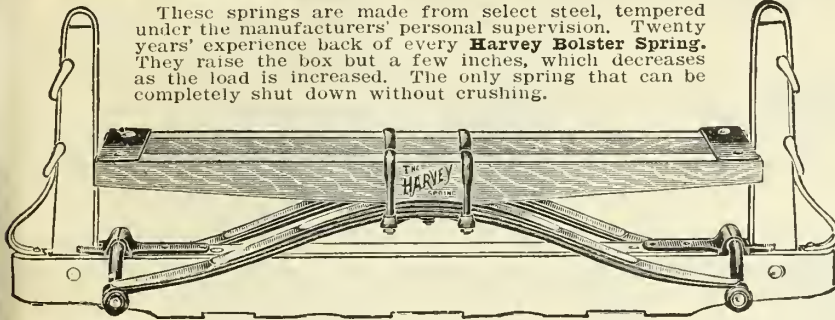


No. 376

SIRENIA
20th CENTURY DISCOVERY

Harvey XXX Bolster Springs

These springs are made from select steel, tempered under the manufacturers' personal supervision. Twenty years' experience back of every **Harvey Bolster Spring**. They raise the box but a few inches, which decreases as the load is increased. The only spring that can be completely shut down without crushing.



Capacity. 42 in. 44 in. Capacity. 42 in. 44 in. Capacity. 42 in. 44 in.

1000	\$7.50	\$8.00	3000	\$12.00	\$13.00	7000	\$19.00	\$20.00
1500	8.00	8.50	4000	13.00	14.00	8000	20.50	21.50
2000	10.00	11.00	5000	14.00	15.00	9000	22.00	23.00
2500	11.00	12.00	6000	17.50	18.50	10000	23.50	24.50

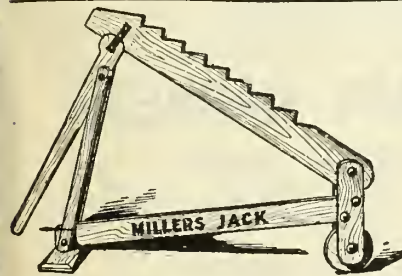
Less 30 per cent. retail from above prices.

No. 3 Harvey, Jr., Bolster Springs



Capacity.		36" or 38"	40" or 42"
1000	.....	\$4.00	\$4.50
1500	.....	4.50	5.00
2000	.....	5.00	5.50
2500	.....	5.50	6.00

Less 30 per cent. retail from above prices.



Wood Wagon Jack

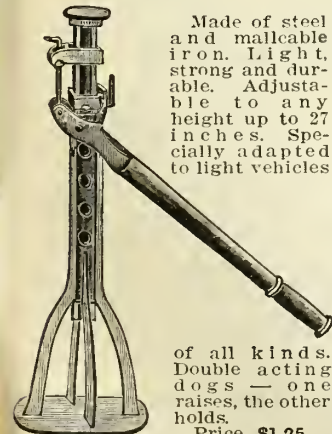
No. 1—Adapted for buggies or light work. Capacity, 2000 lbs. \$1.00.

No. 2—For heavy wagons, transfer wagons, trucks, etc. Capacity from 3000 to 5000 lbs. \$1.25.

No. 3—\$1.75.

We also have a cheap Jack, very simple in construction, but one which is easily handled, and which is all right for light work. Price, 50c.

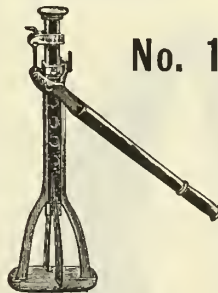
EUREKA WAGON JACK



Made of steel and malleable iron. Light, strong and durable. Adjustable to any height up to 27 inches. Specially adapted to light vehicles

of all kinds. Double acting dogs — one raises, the other holds. Price, \$1.25.

EUREKA AUTO JACK



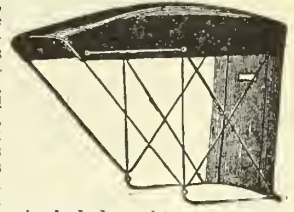
No. 1

This Jack is similar to the Eureka Wagon Jack, excepting it is 12 inches high. A little wonder, light, but strong. Small, but powerful. It is made of the best material. Will easily lift a heavy automobile. WT., 4 lbs.; capacity, 2000 lbs. Handle detachably connected. Raises or lowers by same handle.

PRICE, \$1.25.

BUGGY TOPS

Drill Top, lined with nice union cloth. Tubular sockets and second-growth bows, wrought rail and joints, stitched front valance, does not show nails or tacks. Will keep in shape.



Side Curtains are included, making top complete. List, \$15.00; Retail, \$3.50.

Rubber Top, cloth lined, tubular sockets and second-growth bows, wrought rail and joints, stitched front valance, no nails or tacks exposed. Will keep shape for years. Complete with side curtains. List, \$17.00; Retail, \$9.50.

CORDED TOP BUGGY CUSHION

NICELY MADE.—In ordering Cushions, give size of bottom of seat inside, size of fall at top and bottom, and depth from top of sill, or enclose paper pattern.

Union Cloth—List, \$4.00. Retail, \$2.50.
Rubber Drill—List, \$4.50. Retail, \$2.75.
Imitation Leather—List, \$6.00. Retail, \$3.75.

WAGON CUSHION

Black Enameled Drill, 20 to 34 inches long, stitched edge. List, \$1.30. Retail, 85c.
Black Enameled Drill, corded edge. List, \$2.00. Retail, \$1.50.

BUGGY BACK

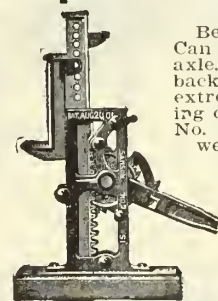
In ordering Backs, give exact measurement of seat at top of rim, from out to out; or, if seat is ready ironed up with back board in position, send paper pattern of the exact size and shape of back wanted.

Enameled Drill—List, \$5.00. Retail, \$3.00.
Heavy Rubber—List, \$6.00. Retail, \$3.50.

WHEELS, FINISHED

Buggy, per set..List, \$22.00 Retail, \$15.00
Dayton, per set..List, 26.00 Retail, 18.00

Improved Samson Jack



Malleable Iron.

Best Jack on the market. Can be used for any height axle. Standard cannot drop back on cogs when raised to extreme height. No breaking of cogs and standards.

No. 1—Will raise vehicles weighing 2 tons.....\$2.50

No. 2—Will raise vehicles weighing 5 tons.....\$3.25

No. 2—Will raise vehicles weighing 5 tons, with drop hook.....\$3.50

Can also furnish other Jacks. Prices on application.

BELL BOTTOM JACK SCREWS

These Jack Screws have cast-iron stands, with forced head screws. For workmanship and durability they cannot be excelled.

Diameter Screw	Height Stand	Height over all	List Price	Our Special Price
1 1/2 in.	12 in.	15 in.	\$5.25	\$2.15
1 1/2 in.	14 in.	17 in.	6.00	2.50
1 1/2 in.	16 in.	19 in.	6.75	2.75
2 in.	10 in.	14 in.	6.75	2.75
2 in.	12 in.	16 in.	7.50	3.05
2 in.	14 in.	18 in.	8.25	3.35
2 in.	16 in.	20 in.	9.25	3.75

Capacity 1 1/2-in. diameter screw, 10 tons.

Capacity 2-in. diameter screw, 12 tons.

Other sizes. Prices on application.

CARRIAGE AND WAGON HARNESS

No. 700—SINGLE BUGGY HARNESS.—Bridles, $\frac{5}{8}$ inch; Traces, 1 inch; Saddle, $2\frac{1}{2}$ inches; Breast Collar and Breeching, single leather; Flat Lines; X. C. Mounting. Price, with Collar and Hames, \$6.25; with Breast Collar, \$8.05.

No. 603—SINGLE BUGGY HARNESS.—Bridles, $\frac{5}{8}$ inch; Traces, $1\frac{1}{2}$ inches; Saddle, 3 inches, with Nickel Hook and Terrets; Breast Collar and Breeching folded with straight lay; Flat Lines; X. C. Mounting, Imitation Hand Stitched. Price, with Collar and Hames, \$12.00; with Breast Collar, \$11.20.

No. 4—SINGLE BUGGY HARNESS.—Bridles, $\frac{5}{8}$ inch; Traces, $1\frac{1}{2}$ inches; Saddle, 3 inches; Breast Collar and Breeching folded with straight lay; Flat Lines; X. C. Mounting, with Nickel Hook and Terrets, Imitation Hand Stitched. Price, with Collar and Hames, \$12.95; with Breast Collar, \$12.25.

No. 23—SINGLE STRAP BUGGY HARNESS.—Bridles, $\frac{5}{8}$ inch; Box Loop, Lay-on Crown, Two-piece Overcheck, Round Brace, Round Front, Crystal Rosettes; Lines, $\frac{7}{8} \times 1\frac{1}{8}$ inches, Black; Steel Billet; Breast Collar, $2\frac{5}{8}$ inches, Curved; Traces, $1\frac{1}{2}$ inches, Attached; Saddle, 3 inches; Hand-laced Track; Patent Leather Jockeys and Skirts; Enameled Leather Lined; Shaft Tugs, 1 inch, Double and Stitched, Billet attached with Dee, Box Loops; Girth, $2\frac{1}{4}$ inches, Double and Stitched, Box Loops, Outside Girth sliding through loop $4\frac{1}{2}$ inches long; Breeching, $1\frac{3}{4}$ inches, extended under Ring; Double Stay, $\frac{3}{4}$ inch; Solid Waved Turnback, Round Dock sewed on; $\frac{5}{8}$ -inch Hip Strap; $\frac{7}{8}$ -inch Holdback Straps, with Pressed Loops; Edges rounded, no creasing. Imitation Rubber, Nickel or Brass Trimmings. Price, with Breast Collar, \$14.35; with Kip Collar, Traces to Buckle, \$16.80.

No. 12—SINGLE STRAP BUGGY HARNESS.—Bridles, $\frac{5}{8}$ inch; Box Loop, Overchecks, Square Blinds, Round Brace; $\frac{7}{8} \times 1\frac{1}{8}$ -inch Steel Billet Lines; 3-inch Curved or V-shaped Breast Collar; $1\frac{1}{4}$ -inch Traces attached; 3-inch Track Saddle, Patent Leather Skirts, Enameled, Leather Lined, Hand-laced; 1-inch Double and Stitched Shaft Tugs, Box Loop; 2-inch Griffith Girth, $\frac{7}{8}$ -inch Billets; Breeching, $1\frac{3}{4}$ -inch, Round Stay; $\frac{5}{8}$ -inch Solid Waved Turnback, $\frac{3}{4}$ -inch Hip Strap, $\frac{7}{8}$ -inch Holdback Straps, Round Dock sewed on; Edges rounded, no creasing. Imitation Rubber or Nickel Trimmings. Price, with Breast Collar, \$16.80; with Kip Collar, Traces to Buckle, \$18.90.

No. 93—SINGLE CARRIAGE HARNESS.—Bridles, $\frac{5}{8}$ inch; Traces, $1\frac{1}{4}$ inch; Saddle $3\frac{1}{2}$ inches; Breast Collar and Breeching folded with straight lay; Flat Lines; X. C. Mounting; Imitation Hand Stitched. Price, with Collar and Hames, \$14.35.

No. 94—SINGLE CARRIAGE HARNESS.—Bridles, $\frac{3}{4}$ inch; Traces, $1\frac{1}{4}$ inch; Saddle, 4 inches; Breast Collar and Breeching folded with straight lay; Flat Lines; Nickel Hook and Terrets, balance of mounting X. C.; Imitation Hand Stitched. Price, with Kip, Plain Front Collar and Hames, \$17.50.

No. 29—DOUBLE BUGGY HARNESS.—Bridles, $\frac{5}{8}$ inch; Traces, 1 inch; Pads with inserted Housings; $1\frac{1}{4}$ -inch Side Straps and Folded Bellybands; Turnback, $\frac{3}{4}$ inch; Hip Strap, $\frac{5}{8}$ inch, with Patent Leather Drops; Flat Lines; Black Collars; X. C. Mounting. Price, \$20.30.

No. 19—DOUBLE BUGGY HARNESS.—Bridles, $\frac{5}{8}$ inch; Traces, $1\frac{1}{4}$ inch; Pads Full Leather Bottom, Hair Stuffed; $1\frac{1}{4}$ -inch Side Straps and Folded Bellybands; Turnbacks, $\frac{3}{4}$ inch; no Hip Strap; Flat Lines; Kip Collars; Nickel or Imitation Rubber Mountings, Imitation Hand Stitched. Price, \$28.35.

No. 36—DOUBLE BUGGY HARNESS.—Bridles, $\frac{5}{8}$ inch, with Overchecks; Traces, $1\frac{1}{2}$ inch, Raised; Plain or Fancy Bound Pads, with Leather Housings Inserted; $1\frac{1}{4}$ -inch Side Straps; Folded Bellybands; Turnbacks, $\frac{3}{4}$ inch, waved; Round Hip Straps; Flat Lines; Kip Collars; Nickel or Imitation Rubber Mounting; Imitation Hand Stitched; Nicely Finished. Price, \$32.20.

No. 27—EXPRESS HARNESS.—Bridles, $\frac{3}{4}$ inch; Traces, $1\frac{1}{4}$ inch; Saddle, 4 inches; Red Wood Hames, with X. C. Ball Top; Folded Breeching, with straight lay; Double Hip Straps; X. C. Mounting. Price, \$16.80.

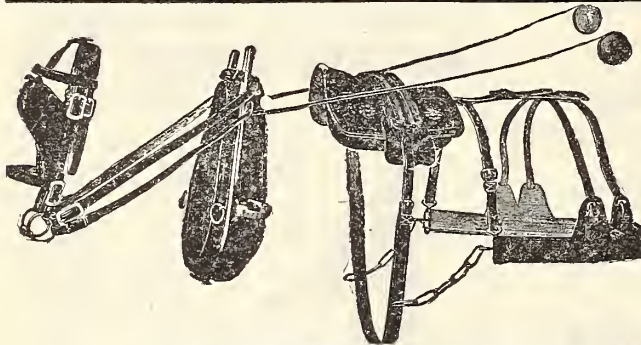
No. 26—EXPRESS HARNESS.—Bridles $\frac{3}{4}$ inch; Traces, $1\frac{1}{4}$ inch, with Cock Eyes; Saddle, 4 inches, with Kersey Lining; Red Wood Hames, with Brass Ball Top; Folded Breeching, with straight lay; Double Hip Straps; Brass Mounting; Imitation Hand Stitched. Price, \$19.95.

No. 20—EXPRESS HARNESS.—Bridles, $\frac{3}{4}$ inch; Traces, $1\frac{1}{2}$ inch, to buckle to Hames or with Heel Chains and attached to Hames; Saddle, $4\frac{1}{2}$ inches, with Kersey Lining; Folded Breeching, with straight lay; Double Hip Straps; Brass or X. C. Mounting; Imitation Hand Stitched. Price, \$22.05.

No. 10 $\frac{1}{2}$ —DOUBLE WAGON HARNESS.—Bridles, $\frac{3}{4}$ inch; Harness Leather Winkers; Ball Top Hames; $1\frac{1}{2}$ -inch Traces, riveted to Hames, with Chain Ends; Folded Pad and Breeching; $\frac{3}{4}$ -inch Double Hip Strap; Split and Tick Collars; Flat Lines. Price, \$22.75.

No. 9—DOUBLE WAGON HARNESS.—Bridles, $\frac{3}{4}$ inch; Patent Leather Winkers; Ball Top Hames; $1\frac{1}{2}$ -inch Traces riveted to Hames, with Chain Ends; Folded Pads and Breeching; $\frac{7}{8}$ -inch Double Hip Strap; Kip Collars; Flat Lines; Imitation Hand Stitched. Price, \$32.50.

No. 17—HEAVY DOUBLE WAGON HARNESS.—Bridles, $\frac{3}{4}$ inch; Patent Leather Winkers; Box Loop Checks; Brass Ball Top Hames; $1\frac{3}{4}$ -inch Traces, riveted to Hames, with Chain Ends; Folded Pad and Breeching; $1\frac{1}{4}$ -inch Turnback and $\frac{7}{8}$ -inch Split Hips; Kip Collar; Flat Lines; Imitation Hand Stitched. Price, \$34.30.



DUMP CART HARNESS

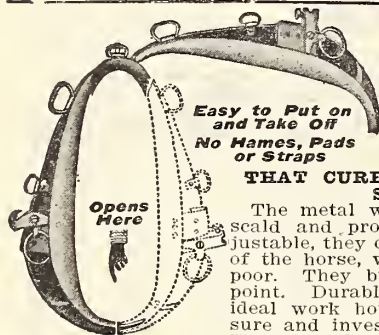
No. A.—DUMP CART HARNESS.

Bridle, $\frac{7}{8}$ inch; lines, $\frac{7}{8}$ inch; breeching, 3 inches; No. 5 Saddle, leather covered; No. 62 iron-bound hames; $\frac{7}{8}$ -inch hame straps; tug chains; Kip team collar. Price, without lines, \$12.50; with lines, \$14.00.

No. 8.—DUMP CART HARNESS.

Bridle, No. 218, with winker stays; hames, No. 61, Virginia Hook, with straps; collar, all Kip team; saddle, No. 8, doubled and stitched top, full pad, leather girth; breeching, No. 5, 3-inch double body; $1\frac{1}{2}$ -inch turnback; $1\frac{1}{4}$ -inch double hip straps. Price, without lines, \$18.25; with lines, \$19.75.

Prices on Cheap Cart Harness on Application.



The Indestructible Hameless Steel Horse and Mule Collar

THAT CURES GALLED NECK AND SHOULDERS.

The metal won't permit the sweat to scald and produce a sore. Being adjustable, they can be made to fit the neck of the horse, whether spring fat or fall poor. They bring the draft to correct point. Durable; lasts a lifetime. The ideal work horse and mule collar. Be sure and investigate the merits of this Twentieth Century Collar. More than a

hundred thousand in use. Extensively used on North Carolina prison farms. Endorsed by leading veterinaries and agriculturists everywhere.

16-inch Collar, 18-inch Collar, 20-inch Collar, 22-inch Collar.
Price, Any Size, \$6.00.

Any size adjustable to $1\frac{1}{2}$ inches longer.

HORSE COLLARS

No. 75—DRAFT.—Split Leather Rim and Back; Blacked Tick Face; Patent Fasteners, \$1.25.

No. 85 — DRAFT.—Black Split Leather Rim and Back; Sheep Face; Patent Fasteners, \$1.60.

No. 17—TEAM.—Black Split Leather Rim and Back; Tick Face, extra lined, all hand-sewed, with Leather Thong; Patent Fasteners, \$1.85.

No. 571—TEAM.—Hand-sewed, with Leather Thong; Black Split, Russet Sheep Face; Patent Fasteners, \$2.25.

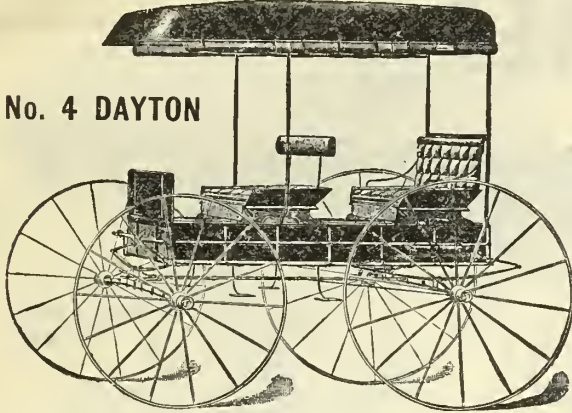
No. 155 — SCOTCH.—Kip Rim and Back; extra lined Tick Face, all hand-sewed, with Thong; Patent Fasteners, \$2.75.

No. 1—CANAL.—All Kip, Russet Face, hand-sewed, with heavy Thongs; Patent Fasteners, \$3.25.

No. 52 — BUGGY.—All Kip, Blacked, 2 Buckles, \$1.75.



No. 4 DAYTON

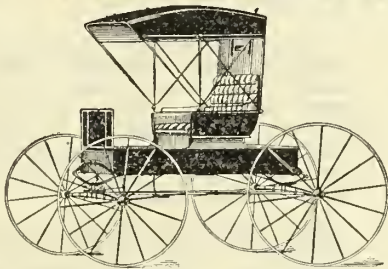


Length of body, 5 ft. 10 in.; width, 2 ft. 10½ in.; frame and seats best white ash; panels best No. 1 poplar. Wheels, 3 ft. 9 in. and 3 ft. 5 in. high; 1-16 spoke; Warner or Shell band; 1x¼ in. steel tire; 1-16-in. steel axle; front spring, 1½ in., 4-ply; two back springs, 1¼ in., 4-ply, oil tempered. Gear, best white hickory. Cushions trimmed either in leather or cloth; curtains, 24 oz.; green back, gum. Finished natural wood or painted as desired; hung on Brewster springs.

PRICE.

List.....\$130.00 Retail.....\$75.00
Can also furnish in duplex or side bar at same price.

YALE AND REX BUGGIES



No. 123—This is our **YALE** or Best Grade Buggy.—**WHEELS**, ¾ or ⅞ in. Sarven, 40-44 in. high, screwed rims, coach felloe plates, 15-16 in. axle. **BODY**, 20, 22 or 24 by 56 in. **SEAT**, regular buggy style; top, 28x17 in., back 22 in. **TRIMMING**, No. 1 machine buffed leather or 16 oz.; all wool body cloth; spring cushion and back, hairtop. **DASH**, 13 in. high, padded and braced. **CARPET**, full length velvet. **BOOT**, factory flexible pattern. Buggy with leather quarter top—List Price, \$144.00; Our Special Price, \$85.00. Buggy with leather top and rubber sides—List Price, \$151.50; Our Special Price, \$91.00. If **Ball-Bearing Axle** is wanted add—List Price, \$22.00; Our Special Price, \$13.75. If **Rubber Tire** is wanted add—List Price, \$28.00; Our Special Price, \$16.25. If **Warner or Shell Band Wheels** are wanted add—List Price, \$2.00; Our Special Price, \$1.25. If leather strap boot over regular is wanted add—List Price, \$2.50; Our Special Price, \$1.50. If **Bradley or Standard couplers** instead of regular are wanted add—List Price, \$2.00; Our Special Price, \$1.25. If leather covered bows are wanted add—List Price, \$5.00; Our Special Price, \$3.00.

No. 862—**REX GRADE ROAD WAGON**.—**WHEELS**, Sarven, ¾ or ⅞ in. tread; 39-43 in. high, 15-16 in. Axles, 3 and 4 plate Elliptic Springs. **SHAFTS**, hickory, trimmed with 24 in. imitation leathers; easy, quick shifting shaft couplers. **BODY**, 19 or 24 in. wide, corning style. **SEAT**, buggy style "A." **TRIMMING**, imitation or genuine leather; when genuine leather is used, the fall and seat ends are trimmed in imitation. Springs in cushion and back. **DASH**, 13 in. high, curved. **CARPET**, half length, good quality. List Price, \$75.00; Our Special Price, \$45.00. If **Ball-Bearing Axle** is wanted add—List Price, \$22.00; Our Special Price, \$13.75. If **Rubber Tire** is wanted add—List Price, \$26.00; Our Special Price, \$16.25. If **Warner or Shell Band Wheels** are wanted add—List Price, \$2.00; Our Special Price, \$1.25.

No. 804—**REX GRADE ROAD WAGON**.—**WHEELS**, Sarven, ¾ or ⅞ in., 39-43 in. high, 15-16 in. Axle, three and four plate Elliptic Springs. **SHAFTS**, XX hickory, with 24 in. imitation points; easy, quick shifting shaft couplers. **BODY**, 19, 21 or 23 by 56 in. **SEAT**, Stick pattern, style "J." **TRIMMING**, fancy trimming leather, whip cord or heavy body cloth. **DASH**, 13 in. high. **CARPET**, full length, good quality. List Price, \$82.50; Our Special Price, \$49.50. If **Ball-Bearing Axle** is wanted add—List Price, \$22.00; Our Special Price, \$13.75. If **Rubber Tire** is wanted add—List Price, \$26.00; Our Special Price, \$16.25. If **Warner or Shell Band Wheels** are wanted add—List Price, \$2.00; Our Special Price, \$1.25.

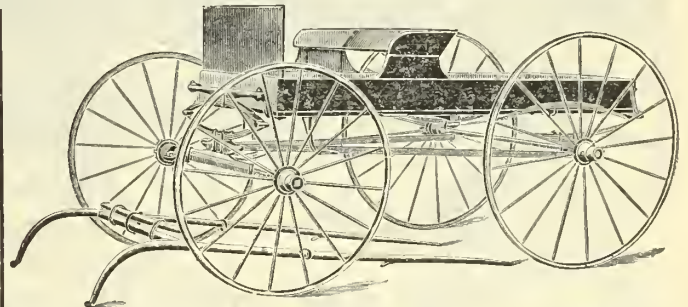
GRITCO WAGONS



Entire wagon made of selected hardwood. Construction closely follows that of regular farm wagon, having bent hounds and adjustable reach. All parts heavily braced and ironed.

	List.	Retail.
Gritco Jr. No. 355, with hand pole.....	\$9.00	\$6.25
Gritco Jr. No. 355, with shafts.....	10.00	7.00
Gritco No. 356, with hand pole.....	10.00	7.00
Gritco No. 356, with shafts.....	11.00	7.75

THREE SPRING DELIVERY WAGON



Size of Steel Axle	Tires	Height Wheels		Dimensions of Body				Weight	Cap.	Wagon Complete No Brakes				
		Front	Rear	L'gth	W'th	D'pth	List			Retail				
Ft	In	Ft	In	Ft	In	Ft	In	In						
1	1 x ¼	3	3	8	7	0	3	1	9	0	400	800	\$83.00	\$50.00
1½	1½ x 5-16	3	3	8	7	0	3	1	9	0	500	1000	\$7.00	\$2.50

Brake for above.....List, \$5.00; Retail, \$3.00
Tops for above.....List, 40.00; Retail, 24.00

DUPLEX SPRING DELIVERY WAGON

Similar to above, except it has a duplex spring gear.

Size of Steel Axle	Tires	Height Wheels		Dimensions of Body				Weight	Cap.	Wagon Complete No Brakes				
		Front	Rear	L'gth	W'th	D'pth	List			Retail				
Ft	In	Ft	In	Ft	In	Ft	In	In						
1	1 x ¼	3	3	8	7	0	3	1	9	0	400	800	\$79.00	\$47.75
1½	1½ x 5-16	3	3	8	7	0	3	1	9	0	500	1000	\$3.00	\$0.00

Brake for above.....List, \$5.00; Retail, \$3.00
Tops for above.....List, 40.00; Retail, 24.00

Farmers' Favorite Road Cart No. 39

Sarven wheels, 1-in. axle, semi-elliptic springs; painted dark winc. List Price, \$30.00. Our Special Price, \$18.00.

No. 45 Body Cart Same style Cart as above, but with body. List Price, \$40.00. Our Special Price, \$22.50.

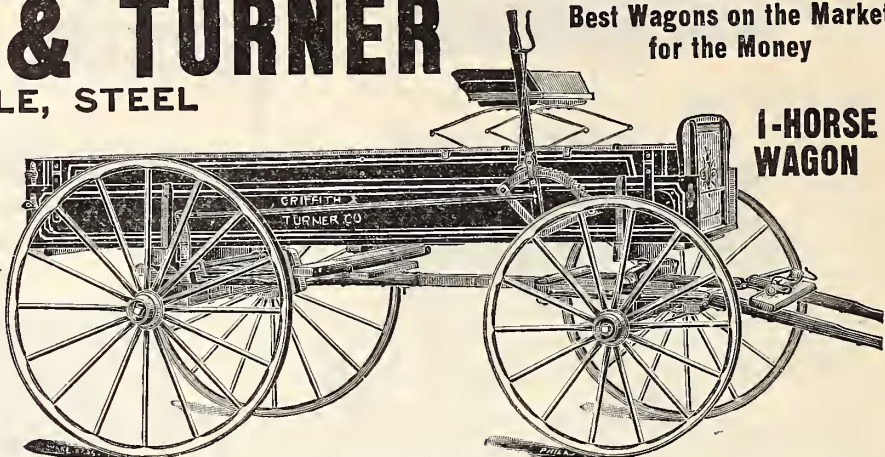
GRIFFITH & TURNER

**Best Wagons on the Market
for the Money**

**SOLID STEEL AXLE, STEEL
SKEIN AND
TUBULAR AXLE**

WAGONS

**We carry the Solid Steel
and Steel Skein Wagons in
stock, and can furnish the
Tubular Axle Wagons at
short notice.**



**1-HORSE
WAGON**

SPECIAL ONE-HORSE WAGON

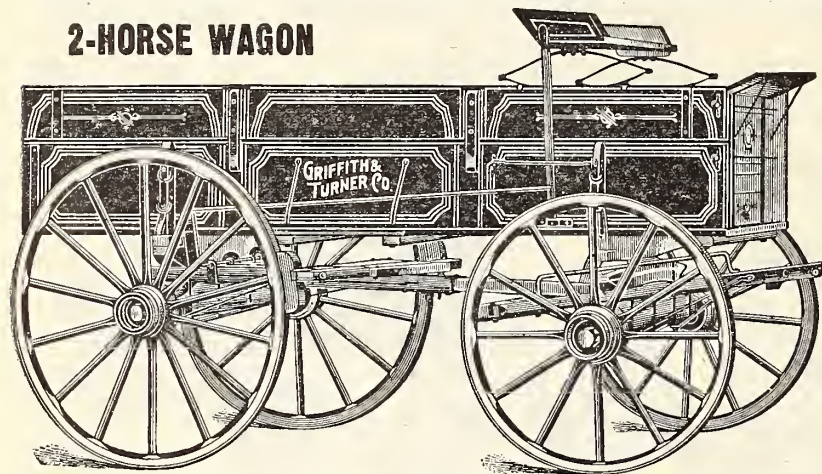
Size of St'l Axle	Size of Tubular Axles	Size of Tires	Height		Wheels		Dimensions of Body				Weight	Capacity	Wagon Complete No Brakes		Wagon Complete With Brakes		Gears Only With Brakes		Gears Only No Brakes			
			Front	Rear	Length	Width	Depth	List	Retail	List			Retail	List	Retail	List	Retail					
1 1/4	1 1/8	1 1/4 x 5-16	3	2	3	8	9	0	3	6	9	4	550	1000 to 1200	\$64.50	\$38.75	\$70.50	\$42.50	\$58.50	\$35.25	\$52.00	\$31.25

No. 40 ONE-HORSE WAGON

Size of St'l Axle	Size of Tubular Axles	Size of Tires	Height		Wheels		Dimensions of Body				Weight	Capacity	Wagon Complete No Brakes		Wagon Complete With Brakes		Gears Only With Brakes		Gears Only No Brakes			
			Front	Rear	Length	Width	Depth	List	Retail	List			Retail	List	Retail	List	Retail					
1 1/2	1 1/8	1 1/4 x 5-16	3	2	3	8	9	0	3	6	10	4	650	1500 to 1800	\$75.00	\$45.00	\$82.00	\$49.25	\$70.50	\$42.50	\$64.00	\$38.50

For G. & T. One-Horse and No. 40 Wagons with 2-inch tires, add List, \$4.00; Retail, \$2.40.
For G. & T. One-Horse and No. 40 Wagons with tongue instead of shafts, add List, \$5.00; Retail, \$3.00.

2-HORSE WAGON



**THESE WAGONS ARE HEAVILY
IRONED AND BRACED. THEY ARE
MADE OF THE BEST MATERIAL
THROUGHOUT. THE WHEELS ARE
DIPPED IN BOILING OIL. HAVE ROUND
EDGE TIRES, WHICH PROTECT THE
FELLOES AND PAINT. THEY ARE
VERY LIGHT RUNNING.**

**FOR TIRES OF EXTRA WIDTH AND
THICKNESS, ADD THE FOLLOWING
AMOUNTS TO WAGON PRICES BELOW.**

For tires wider than regular on Nos. 42, 44 and 46, add List, \$9.00; Retail, \$5.50, per inch, or fractional part thereof. On Nos. 48, 50 and 52, add List, \$11.00; Retail, \$6.50, per inch, or fractional part thereof.

For tires thicker than regular, add List, \$4.50; Retail, \$2.75, for every 1/4 inch additional thickness on 3 inches wide and upwards. Less than 3 inches wide, add List, \$2.50; Retail, \$1.50, for every 1/4 inch additional thickness. **Special Discount for Cash.**

PRICES OF STEEL AND TUBULAR AXLE WAGONS

Size of Nos. St'l Axle	Size of Tubular Axles	Size of Tires	Height		Wheels		Dimensions of Body				Weight	Capacity	Wagon Complete No Brakes		Wagon Complete With Brakes		Gears Only With Brakes		Gears Only No Brakes			
			Front	Rear	Length	Width	Depth	List	Retail	List			Retail	List	Retail	List	Retail					
42 1 1/2	1 1/8 x 8 1/2	1 1/4 x 7-16	3	6	4	0	9	6	3	6	12	6	.....	2000 to 2500	\$110.00	\$66.00	\$118.00	\$71.00	\$102.00	\$61.25	\$95.00	\$57.00
44 1 3/8	2 1/8 x 8 1/2	2 x 1 1/2	3	6	4	2	10	6	3	6	12	6	900	2500 to 3000	125.50	75.00	134.50	80.75	117.00	70.25	110.00	66.00
46 1 3/8	2 3/8 x 9 2	2 x 5/8	3	6	4	2	10	6	3	6	12	8	1000	3000 to 3500	134.50	80.75	143.00	86.00	125.50	75.50	117.00	70.25
48 2	2 3/8 x 10 2	2 x 3/4	3	6	4	2	10	6	3	6	14	8	1200	4000 to 4500	143.00	86.00	152.00	91.25	134.50	80.75	125.50	75.50
50 2 1/4	2 7/8 x 11 3	2 x 3/4	3	6	4	2	Running Gear.					1200	6000	176.00	105.75	188.00	113.00	163.00	98.00	152.50	91.25	
52 2 1/2	3 3/8 x 12 3	2 x 3/4	3	6	4	2	Running Gear.					1400	8000	.....	.....	.....	.....	175.00	105.75	165.00	99.00	

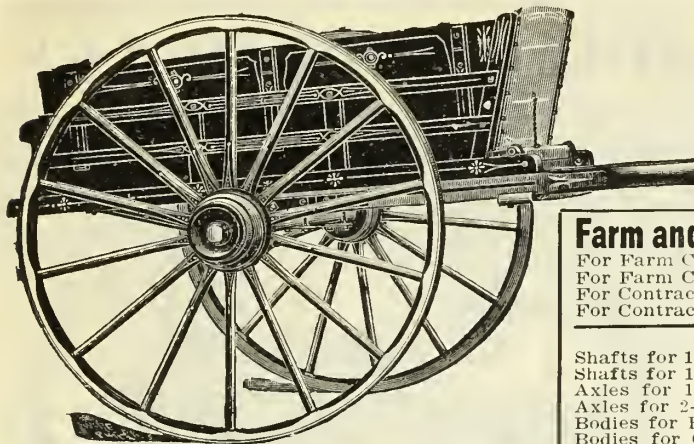
PRICES OF STEEL SKEIN WAGONS

Nos.	Size of Axles	Size of Tires	Height		Wheels		Dimensions of Body				Weight	Capacity	Wagon Complete No Brakes		Wagon Complete With Brakes		Gears Only With Brakes		Gears Only No Brakes			
			Front	Rear	Length	Width	Depth	List	Retail	List			Retail	List	Retail	List	Retail					
3...	2 3/4 x 8 1/2	2 x 3/8	3	2	3	8	9	6	3	6	12	6	800	2000 to 2500	\$110.00	\$66.00	\$118.00	\$71.00	\$102.00	\$61.25	\$95.00	\$57.00
4...	3 x 9	2 x 1/2	3	6	4	0	10	6	3	6	12	6	1100	2500 to 3000	128.00	77.00	137.00	82.25	117.00	70.25	110.00	66.00
5...	3 1/4 x 10	2 x 3/8	3	6	4	0	10	6	3	6	12	6	1200	3000 to 4000	137.00	82.25	145.00	87.00	125.50	75.50	117.00	70.25
6...	3 1/2 x 11	2 x 3/4	3	6	4	0	10	6	3	6	12	8	1400	4000 to 5000	145.00	87.00	155.00	93.00	135.00	81.00	125.50	75.50

EXTRAS FOR G. & T. WAGONS.

	Special One-Horse		No. 40		No. 42		No. 44		No. 46		No. 48		No. 50		No. 52	
	List	Retail	List	Retail	List	Retail	List	Retail	List	Retail	List	Retail	List	Retail	List	Retail
Bodies	\$18.00	\$10.75	\$20.00	\$12.00	\$21.00	\$12.50	\$23.00	\$13.75	\$25.00	\$15.00	\$28.00	\$16.75	\$35.00	\$21.00	.....	.....
Spring Seat	4.00	2.50	4.00	2.50	4.00	2.50	4.00	2.50	4.00	2.50	4.00	2.50	4.00	2.50	.....	.....
Tongues	9.00	5.50	9.00	5.50	9.00	5.50	9.00	5.50	9.00	5.50	9.00	5.50	9.00	5.50	.....	.....
Shafts	8.00	5.00	8.00	5.00	8.00	5.00	8.00	5.00	8.00	5.00	8.00	5.00	8.00	5.00	.....	.....
Wheels Reg., per set	30.00	16.00	36.00	19.25	54.00	28.50	60.00	32.00	66.00	35.25	72.00	38.50	90.00	41.75	\$96.00	\$45.00
Solid Steel Axles	6.00	3.50	6.00	4.00	7.50	4.50	9.00	5.50	11.00	6.50	12.75	7.50	14.50	8.50	.....	.....

Spring Seat for any of above, List, \$4.00; Retail, \$2.50. Tongues for Special One-Horse, No. 40 and No. 42, List, \$9.00; Retail, \$5.50. Shafts for same, List, \$8.00; Retail, \$5.00.



Farm and Contractors' Carts

With 5 and 6-inch Tires and extra heavy Contractors' Carts made specially to order when wanted.
These Carts are very strong, heavily ironed, nicely painted, striped and varnished.

Size of Axle.	Size of Tires.	Diam. of Wheel.	List Price.	Retail Price
1½ inches.	3 inches.	4 ft. 10 in.	\$70.00	\$42.00
1½ inches.	4 inches.	4 ft. 10 in.	76.00	45.75
2 inches.	3 inches.	4 ft. 10 in.	80.00	48.00
2 inches.	4 inches.	4 ft. 10 in.	86.00	51.75

Farm and Contractors' Cart Wheels

	List Price, Per Pair.	Retail Price, Per Pair.
For Farm Cart, 1½-inch axle, 3-inch tire.....	\$36.00	\$21.75
For Farm Cart, 1½-inch axle, 4-inch tire.....	45.00	27.00
For Contractors' Carts, 2-inch axle, 3-inch tire.....	45.00	27.00
For Contractors' Carts, 2-inch axle, 4-inch tire.....	54.00	32.25

	List Price.	Retail Price.
Shafts for 1½ or 2-in. Axle Farm Cart, no irons, per pair.....	\$12.00	\$7.25
Shafts for 1½ or 2-in. Axle Farm Cart, with irons, ".....	15.00	9.00
Axles for 1½-inch Axle Farm Cart.....	9.00	5.50
Axles for 2-inch Contractors' Cart.....	13.50	8.00
Bodies for Farm Cart.....	30.00	18.00
Bodies for Contractors' Cart.....	36.00	21.50

AXLE GREASE AND OILS

G. & T., per box.....	\$.06
G. & T., 10-lb. buckets, each.....	.50
G. & T., 15-lb. pails, each.....	.70
G. & T., 25-lb. pails, each.....	.90
Mica, tin boxes, each.....	.08
Mica, 10-lb. pails, each.....	.75
Mica, 15-lb. pails, each.....	.90
Mica, 25-lb. pails, each.....	1.25

POLARINE OIL—For all water-cooled automobiles and gas engines in any weather.

Polarine Oil—1 gal.....	\$.70
Polarine Oil—5 gals.....	2.50

Special Price in barrel lots.

Standard Carriage Axle Oil, per gallon....	\$.75
Mineral Castor Oil, per gallon.....	.60
Eureka Harness Oil, per gallon.....	.75
Cup Grease or Hard Oil, 3-lb. can.....	.40
Cup Grease or Hard Oil, 5-lb. can.....	.60
Gasoline Engine Oil, per gallon.....	.60
Pure Neats Foot Oil, per quart.....	.40
Compound Neats Foot Oil, per gallon....	.85
Standard Hoof Oil, 1 pint.....	.25
Standard Hoof Oil, 1 quart.....	.40
Standard Hoof Oil, 1 gallon.....	1.25
Perfection Separator Oil, per gallon.....	.75
Perfection Separator Oil, per 5 gallons ..	2.50
Harvester Oil, per quart.....	.20
Harvester Oil, per ½ gallon.....	.30
Harvester Oil, per gallon.....	.50
Capitol Steam Cylinder Oil, per gallon....	.80
Special Steam Cylinder Oil, per gallon....	.60

HOUSEHOLD LUBRICANT OIL.

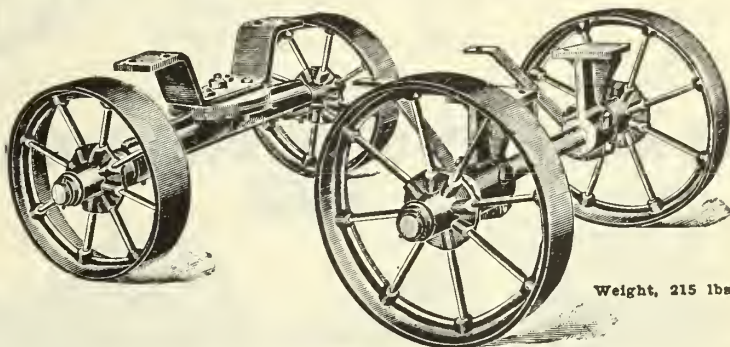
¼-pint Tin Oilers, with spout.....	\$.10
½-pint Tin Oilers, with spout.....	.15

MATCHLESS LIQUID GLOSS.

The Best Polish for Varnished Surfaces.

1 Pint.....	\$.30
1 Quart.....	.50
½ Gallon.....	.90
1 Gallon.....	1.40

PONY TRUCK



Weight, 215 lbs.

For mounting small engines. Wheels 12x14 inches high, with 2 or 3-inch tread; steel axles, 1¼-inch round; hubs, 4½-inch long; capacity, 2000 pounds. This Gear can be bolted to the skids of engine or a platform may be bolted on. A tongue is furnished with each truck.

Pony Truck, with 2-inch tires.....	List, \$18.00; Retail, \$12.00
Pony Truck, with 3-inch tires.....	List, 20.50; Retail, 13.50

METAL TRUCK WHEELS



Diagram Showing How to Measure Your Skeys

As nearly every set of steel wheels we sell has to be made especially to correspond with measurements of axles for which it is intended, we generally make shipment direct from factory.

PRICES PER WHEEL WITH 4x¾ TIRES.

24-inch—Factory List Price, \$6.00.	Our Special Price, \$3.75
26-inch—Factory List Price, 6.30.	Our Special Price, 4.00
28-inch—Factory List Price, 6.60.	Our Special Price, 4.25
30-inch—Factory List Price, 7.20.	Our Special Price, 4.50
32-inch—Factory List Price, 7.80.	Our Special Price, 4.75
34-inch—Factory List Price, 8.40.	Our Special Price, 5.00
36-inch—Factory List Price, 8.75.	Our Special Price, 5.25

For 4x½ Tire, prices on application. Wood Wheels, prices on application. Prices on other sizes quoted on application.

OUR HANDY STEEL WHEEL FARM TRUCKS

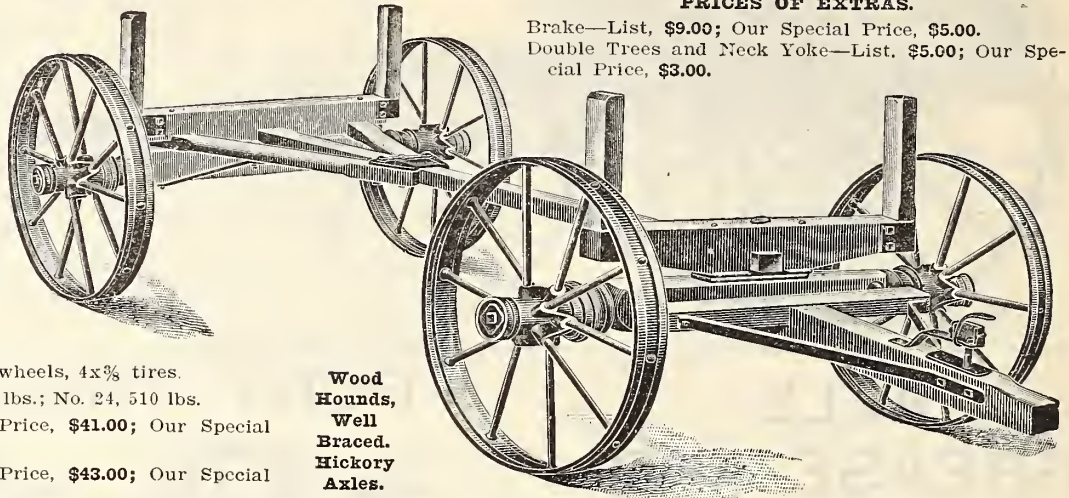
All wood parts hardwood and well painted. Note the grooved tire, which protects the spokes of the wheel, and they last much longer than flat tire wheels. Made in two sizes. No. 22 with 3x9 skeins, capacity 3000 lbs. No. 24 with 3 1/4 x10 skeins, capacity 4000 lbs.

Both Nos. 22 and 24 Trucks have 25-inch front and 30-inch rear wheels, 4x 3/8 tires.

Weights—No. 22, 475 lbs.; No. 24, 510 lbs.

No. 22 Truck—List Price, \$41.00; Our Special Price, \$25.00.

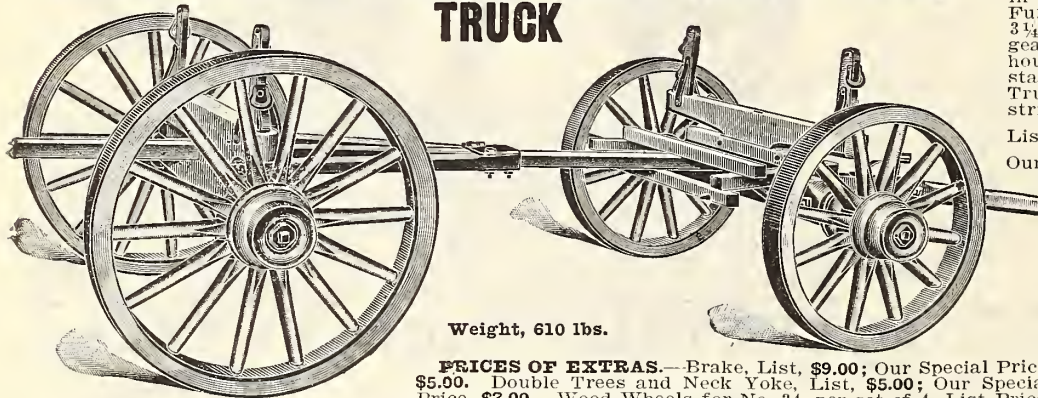
No. 24 Truck—List Price, \$43.00; Our Special Price, \$26.00.



Wood Hounds, Well Braced. Hickory Axles.

PRICES OF EXTRAS.
 Brake—List, \$9.00; Our Special Price, \$5.00.
 Double Trees and Neck Yoke—List, \$5.00; Our Special Price, \$3.00.

OUR No. 34 LOW-DOWN WOOD WHEEL FARM TRUCK



Weight, 610 lbs.

PRICES OF EXTRAS.— Brake, List, \$9.00; Our Special Price, \$5.00. Double Trees and Neck Yoke, List, \$5.00; Our Special Price, \$3.00. Wood Wheels for No. 34, per set of 4, List Price, \$40.00; Our Special Price, \$25.00.

This truck has low-down wood wheels 32 and 36 inches in height, with 4-inch tires. Furnished with hickory axles, 3 1/4 x10-inch skeins, hardwood gear parts; both front and rear hounds, and has regular wagon standards, ironed and ringed. Truck nicely painted and striped. Capacity 4000 lbs.

List Price.....\$60.00
 Our Special Price..... 36.00

Our No. 31 Farm Truck

Very similar to our No. 34 Truck, the difference being that it is built without front hounds and the bolster standards are the style shown on the Steel Wheel Truck illustrated below.

List Price.....\$58.00
 Our Special Price.. 35.00

THE OLD DOMINION WAGON

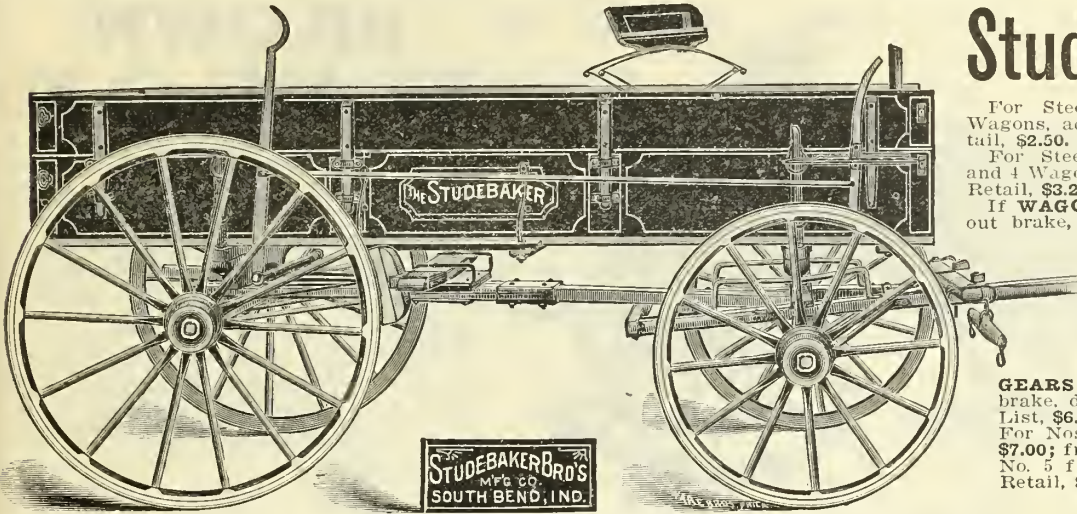
STIFF TONGUE TRUCK.— 3 1/4 x10-inch hickory axle, wood wheels, 36-inch front, 42-inch rear, 3x 3/8-inch tire. A serviceable wagon at a low price.



Weight, 675 lbs.

List Price.....\$82.00
 Our Special Price.... 50.00

Studebaker



For Steel Skeins on No. 2 Wagons, add to List, \$3.00; Retail, \$2.50.

For Steel Skeins on Nos. 3 and 4 Wagons, add to List, \$3.75; Retail, \$3.25.

If **WAGONS** are wanted without brake, deduct from List on No. 2, \$8.50; from Retail, \$7.25. On Nos. 3 and 4, deduct from List, \$9.00; from Retail, \$7.50. On No. 5, deduct from List, \$10.50; from Retail, \$8.85. If

GEARS are wanted without brake, deduct for No. 2 from List, \$6.50; from Retail, \$5.50. For Nos. 3 and 4 from List, \$7.00; from Retail, \$5.90. For No. 5 from List, \$8.50; from Retail, \$7.25.

STANDARD THIMBLE SKEIN FAEM WAGON.

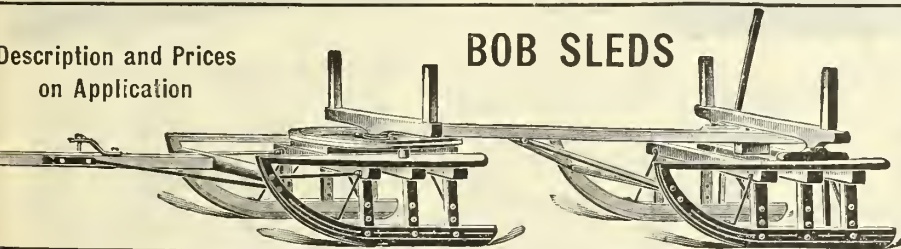
Size of Skeins.	Height of Wheels.		Size of Tire.	Dimensions of Box.				Approximate		Wagon complete with brake.		Gear only with brake.				
	Front.	Hind.		Lower	Top.	Length.	Weight	Capacity	List Price.	Retail Price.	List Price.	Retail Price.				
Inches.	Ft.	In.	Inches.	In.	In.	Ft.	In.	Lbs.	Lbs.							
2 3/4 x 8	3	8	4	4	2	x 7-16	12	8	10	9	850	2000	\$97.00	\$81.00	\$76.00	\$64.00
2 3/4 x 8	3	8	4	4	2 1/2	x 7-16	12	8	10	9	850	2000	100.00	83.00	79.00	66.50
2 3/4 x 8	3	8	4	4	3	x 3/8	12	8	10	9	850	2000	101.50	84.50	80.50	67.50
2 3/4 x 8	3	8	4	4	4	x 3/8	12	8	10	9	850	2000	109.50	90.50	88.50	73.50
3 x 9	3	8	4	6	1 1/2	x 3/8	13	8	10	6	1000	3500	100.00	83.00	77.00	64.75
3 x 9	3	8	4	6	2	x 1/2	13	8	10	6	1000	3500	103.00	85.50	80.00	67.00
3 x 9	3	8	4	6	2 1/2	x 1/2	13	8	10	6	1000	3500	107.00	89.00	84.00	70.50
3 x 9	3	8	4	6	3	x 1/2	13	8	10	6	1000	3500	110.00	91.00	87.00	72.75
3 x 9	3	8	4	6	4	x 1/2	13	8	10	6	1000	3500	118.00	97.00	95.00	78.75
3 1/4 x 10	3	8	4	6	1 1/2	x 3/4	14	10	10	6	1100	4000	103.00	85.50	79.00	66.50
3 1/4 x 10	3	8	4	6	2	x 3/8	14	10	10	6	1100	4000	106.50	88.50	82.50	69.00
3 1/4 x 10	3	8	4	6	2 1/2	x 1/2	14	10	10	6	1100	4000	110.00	91.00	86.00	72.00
3 1/4 x 10	3	8	4	6	3	x 1/2	14	10	10	6	1100	4000	113.00	93.50	89.00	74.50
3 1/4 x 10	3	8	4	6	4	x 1/2	14	10	10	6	1100	4000	121.00	99.50	97.00	80.50

MARYLAND AND PENNSYLVANIA LINC PIN STEEL SKEIN GEARS WITH TRUSS RODS.

3 1/2 x 11-in. Steel Skein Gear, 3 ft. 8 in. between standards, 4x 5/8 tire without Brake.....	List.	Retail.
3 3/4 x 12-in. Steel Skein Gear, 3 ft. 8 in. between standards, 4x 7/8 tire without Brake.....	\$109.50	\$90.75
4 x 12-in. Steel Skein Gear, 3 ft. 8 in. between standards, 4x 7/8 tire without Brake.....	132.00	108.75
	167.00	136.75
For Rubber Bars and Blocks, add to above, List, \$300; Retail, \$2.40.		

Description and Prices on Application

BOB SLEDS



IRON-STRAPPED BLOCKS

Size of Sheave, Inches.	Diam. Rope, Inches.	Length Sheave, Inches.	Common Iron Bushed.					
			Single.		Double.		Triple.	
			List Price.	Retail Price.	List Price.	Retail Price.	List Price.	Retail Price.
3 1/2 x 1 x 1 1/2	3/4	6...	\$1.10	\$.55	\$2.00	\$1.00	\$2.90	\$1.45
4 1/4 x 1 x 1 1/2	3/4	7...	1.30	.65	2.40	1.20	3.50	1.75
4 1/4 x 1 1/4 x 1 1/2	1	8...	1.65	.85	2.85	1.45	4.25	2.15
5 1/2 x 1 1/4 x 1 1/2	1	9...	1.85	.95	3.40	1.70	4.75	2.40
6 1/4 x 1 1/4 x 1 1/2	1 1/8	10...	2.75	1.40	4.50	2.25	6.25	3.15
7 1/4 x 1 1/4 x 1 1/2	1 1/8	11...	4.45	2.25	7.50	3.75	10.65	5.35
8 x 1 1/4 x 1 1/2	1 1/4	12...	4.45	2.25	7.50	3.75	10.65	5.35
Patent Roller Bushed.								
3 1/2 x 1 x 1 1/2	3/4	6...	\$1.50	\$.75	\$2.85	\$1.45	\$4.40	\$2.20
4 1/4 x 1 x 1 1/2	3/4	7...	1.70	.85	3.35	1.70	5.00	2.50
4 1/4 x 1 1/4 x 1 1/2	1	8...	2.25	1.15	4.15	2.10	6.00	3.00
5 1/2 x 1 1/4 x 1 1/2	1	9...	2.50	1.25	4.70	2.35	7.25	3.70
6 1/4 x 1 1/4 x 1 1/2	1 1/8	10...	3.50	1.75	6.00	3.00	8.50	4.25
7 1/4 x 1 1/4 x 1 1/2	1 1/8	11...	5.30	2.65	9.20	4.60	13.20	6.60
8 x 1 1/4 x 1 1/2	1 1/4	12...	5.30	2.65	9.20	4.60	13.20	6.60

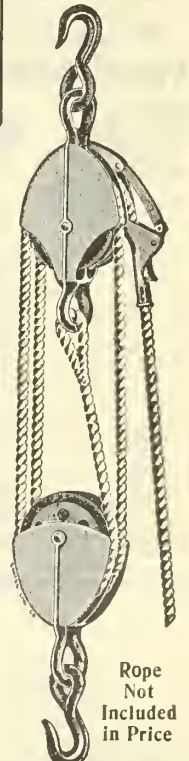
Gritco Hoist

No. 37. — Two sheaves above, two sheaves below; for 1/2-inch rope; capacity, 800 lbs. One man can lift 400 lbs. 3-inch sheaves.

Factory list, \$4.00. Our Special Price, \$2.50.

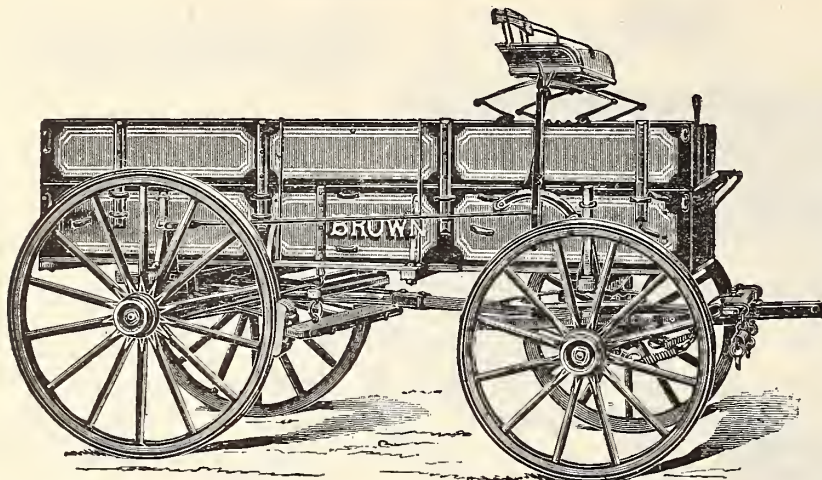
No. 33. — Two sheaves above, 2 sheaves below; for 1/2 inch to 5/8 inch rope; capacity, 1500 pounds. One man can lift 500 lbs. 4-inch sheaves. Factory list, \$6.00. Our Special Price, \$3.75.

No. 27. — Two sheaves above, 2 sheaves below; for 3/4 inch to 7/8 inch rope; capacity, 1800 lbs. One man can lift 500 lbs. 5-inch sheaves. Factory list, \$10.00. Our Special Price, \$6.00.



Rope Not Included in Price

BROWN WAGON



Axles are made of dried selected hickory. Brown's Patent Extension Chilled Skeins. These Skeins support the axle where it has the greatest load to bear. Tongue Chains and Stay Chains fitted with springs. The Tongue Chains have a branch chain to prevent jerking and switching of the tongue and eases the draft on the horses' necks. Wheels all positively soaked in hot oil. Tires never get loose. Write for special circular fully describing these Wagons.

Coil springs are applied to tongue-eases draft on team's neck when chains are forced to control tongue or hold back. They supply the place of the vibrating neck yoke. Yield to pull of chain or branch chain, saving team from jerking of tongue. Branch chains are added to each tongue, practically destroying side jerking and whipping motion. Acts same as neck yoke.

No.	Size of Cast Skein.	Height of Front Wheels.	Height of Rear Wheels.	Size of Tire.	Depth of Box.	Capacity Pounds.	Wagon Complete with Brake		Gear only with Brake	
							List Price.	Retail Price.	List Price.	Retail Price.
00	2 3/4 x 8 1/2	3'8"	4'4"	1 1/2 x 1 1/2	22"	2500	\$98.00	\$87.75	\$76.25	\$68.25
00	2 3/4 x 8 1/2	3'8"	4'4"	2 1/2 x 1 1/2	22"	2500	105.85	94.50	84.10	75.25
1	3 x 9	3'8"	4'4"	1 1/2 x 5/8	24"	4000	101.00	90.50	79.25	71.00
1	3 x 9	3'8"	4'4"	3 x 5/8	24"	4000	113.35	101.50	91.60	82.00
2	3 x 9	3'8"	4'4"	4 x 5/8	24"	4000	122.45	109.50	100.70	90.25
2	3 1/4 x 10	3'8"	4'4"	1 1/2 x 5/8	26"	4500	104.00	93.00	82.25	73.50
2	3 1/4 x 10	3'8"	4'4"	3 x 5/8	26"	4500	116.35	104.00	94.60	84.75
2	3 1/4 x 10	3'8"	4'4"	4 x 5/8	26"	4500	125.45	112.25	103.70	92.75

All of above Complete Wagons have Seats and Gear Brakes.

Following Special Gears have Linch Pin Steel Skeins, Gear Brakes, and Nos. 3, 4 and 5 have Side and Back action Brakes with Round Coupling Poles.

2	3 1/4 x 10	3'8"	4'4"	4 x 5/8	.....	4500	.....	.....	\$109.70	\$98.00
3	3 1/2 x 11	3'8"	4'4"	4 x 5/8	.....	5500	.....	.....	129.95	119.00
4	3 3/4 x 12	3'8"	4'4"	4 x 7/8	.....	6500	.....	.....	153.45	139.75
5	4 x 12	3'8"	4'4"	4 x 1	.....	7500	.....	.....	167.75	153.50

Following Solid Steel Axle Gears have Side Brakes and Round Coupling Poles.

No. 1—1 5/8"	Solid Steel Axle Gear with 3x5/8" Tires, Side Brake	\$99.90	\$89.25
No. 2—1 3/4"	Solid Steel Axle Gear with 3x5/8" Tires, Side Brake	102.90	92.00
No. 3—2"	Solid Steel Axle Gear with 3x3/4" Tires, Side Brake	110.90	99.00
No. 4—2 1/4"	Solid Steel Axle Gear with 3x3/4" Tires, Side Brake	130.30	116.50

STUDEBAKER Patent Steel Skeins

Revised Price List PATENT STEEL SKEINS.



With boxes, per set.
With Nuts. Boxes only, per set
Price List Price List

No. 2	2 1/2 x 8"	\$5.80	\$1.16
3	2 3/4 x 8"	6.10	1.22
6	3 x 9"	6.50	1.30
9	3 1/4 x 10"	7.50	1.50
11	3 1/2 x 11"	8.50	1.70
14	3 3/4 x 12"	10.00	2.00
15	4 x 12"	12.00	2.40
17	4 1/2 x 13"	18.00	3.60

With Linch Pins.
Price List.

21	3 1/4 x 10"	\$7.50	1.50
23	3 1/2 x 11"	8.50	1.70
25	3 3/4 x 12"	10.00	2.00
26	4 x 12"	12.00	2.40

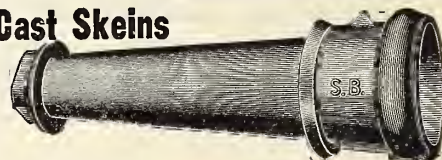
Made of the best grade of plate steel. Solid extension back of the collar keeps the wet and grease from working in on axle. Extension back of collar covers all tapering portions and more of the wood of the axle than any other skein.

STEEL SKEINS FOR PETER SCHUTTLER WAGONS.

Size.	Skein Only, with Nut or Linch Pin, no Box, each	Box Only, each
3 1/4 x 10"	\$2.15	\$0.55
3 1/2 x 11"	2.30	.60
3 3/4 x 12"	2.70	.70
4 x 12"	3.30	.80
4 1/4 x 12"	3.50	.90
4 1/2 x 13"	4.90	1.20

S. B. Trade Cast Skeins

Standard Price List S. B. Trade Cast Skeins.



Cast Skeins, with Boxes. Boxes only.

No.	Size.	List, Per Set.		Retail, Per Set.	
		List.	Retail.	List.	Retail.
9	2 1/2 x 8"	\$4.75	\$2.85	\$1.58	\$0.95
10	2 3/4 x 8"	5.25	3.15	1.75	1.05
13	3 x 9"	6.00	3.60	2.00	1.20
16	3 1/4 x 10"	7.50	4.50	2.50	1.50
19	3 1/2 x 11"	8.30	5.00	2.77	1.65
22	3 3/4 x 12"	9.40	5.65	3.14	1.90
23	4 x 12"	10.60	6.35	3.54	2.15

All sizes, from 2 1/2 x 8 to 4 x 12, inclusive, are made with truss attachment, as shown in cut. These skeins are made of a better quality of iron than the ordinary trade cast skeins.

PATENT TRUSS CAST SKEINS AND BOXES FOR STUDEBAKER WAGONS.

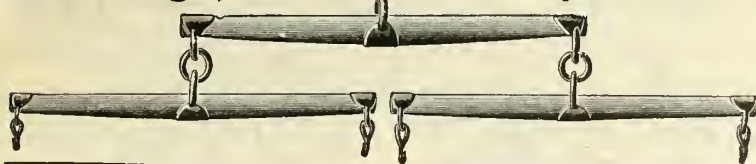
No. 4—Size, 2 3/4 x 8"; with nuts, per set	\$5.25
No. 5—Size, 3 x 9"; with nuts, per set	6.00
No. 6—Size, 3 1/4 x 10"; with nuts, per set	7.50
No. 7—Size, 3 1/2 x 11"; with nuts, per set	8.30

Less 20 per cent. Retail from above List.

CAST AND STEEL SKEINS FOR BROWN WAGONS.

2 3/4" Cast Skeins, patent extension for bolt or clip, no box,	Each, \$1.05
3" Cast Skeins, patent extension for bolt or clip, no box,	6.00
3 1/4" Cast Skeins, patent extension for bolt or clip, no box,	1.30
3 1/2" Steel Skeins, long sleeve, no box	2.10
3 3/4" Steel Skeins, long sleeve, no box	2.50
4" Steel Skeins, long sleeve, no box	3.00

Wood Single, Double and Tripletrees



26-inch Southern Singletrees.....	\$.25
28-inch Extra Nailec Singletrees.....	.35
28-inch Extra Nailec, 3 Hooks, Singletrees.....	.40
30-inch Heavy Singletrees.....	.50
32-inch Heavy Singletrees.....	.55
34-inch Heavy Singletrees.....	.60
36-inch Heavy Singletrees.....	.75
Wagon Singletrees, 36 inches.....	.75
36-inch Southern Doubletrees.....	.75
36-inch Heavy Doubletrees.....	.90
40-inch Heavy Doubletrees.....	1.00
Extra Heavy Tripletrees.....	2.25



WOOD NECK YOKE

No. 6.—40 inches.....	\$.75
No. 6.—48 inches.....	1.00

REPAIR LINKS AND RINGS
OVAL LAP OR OPEN RINGS.
 1/2 x 2 1/2, 8c. ea.; 3/4 x 3, 12c. ea.
CHAIN REPAIR LINKS.
 10-2, 15c. doz.; 10-1, 20c. doz.
SIDE OPEN LAP LINKS.
 1/2 x 2 1/2, 8c. each; 3/4 x 2 1/2, 10c. each; 5/8 x 3, 12c. each.



WAGON, SINGLE AND DOUBLETREES

Wagon Singletrees, No. 9 1/2, each.....	\$.75
Wagon Doubletrees, No. 12 1/2, each.....	1.10
Doubletrees and Singletrees with neck yoke for low-down wagon trucks, per set.....	2.75

Set of Welded Clips

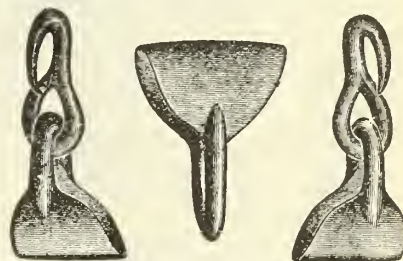
CLIPS FOR DOUBLETREES.

No. 77.—Southern; one 3/4-in. Center Clip and Hook, welded, with 1/2-in. hook and two 1/2-in. End Clips, welded. **List, per doz., \$3.69. Set, 25c.**
 No. 76.—Pennsylvania; one 3/4-in. Center Clip and Hook, welded, with 3/4-in. Hook and two 9-16-in. End Clips, welded. **List, per doz., \$5.38. Set, 40c.**

CLIPS FOR SINGLETREES.

No. 75.—One Center 1/2-in. Clip, welded, and two 3/4-in. End Clips, welded, with 5-16-in. Hooks, as used on our 28-in. Singletrees. **List, per doz., \$2.59. Set, 20c.**
 No. 74.—One Center 9-16-in. Clip, welded, and two 7-16-in. End Clips, welded, with 3/8-in. Hooks. **List, per doz., \$3.21. Set, 25c.**
 No. 73.—One Center 5/8-in. Clip, welded, and two 7-16-in. End Clips, welded, and 3/4-in. Hooks, as used on our 34 and 36-in. Heavy Singletrees. **List, per doz., \$3.33. Set, 30c.**
 No. 72.—One Center 3/4-in. Clip, two 1/2-in. End Clips, with 7-16-in. Hooks. **List, per doz., \$4.76. Set, 40c.**

CLIPS FOR TRIPLETREES—No. 76.—Tripletree Clips. Per set, 50c.



Everlasting Tubular Steel Single and Doubletrees

New Pattern No. 105



Singletrees Equipped with Hooks or Rings, as desired.

New Pattern No. 102



Made Specially for Farm and Freight Wagons, also Log Trucks.

Steel Farm Wagon Doubletrees in Sets Complete. Pattern No. 102. Furnished with Hooks or Rings.			
No. 2.—For regular farm wagons. Capacity 4000 lbs. Evener 46 inches, Singletrees 34 inches. Per set.....	5.25		4.20
Singletrees for Pattern No. 102.			
No. 2.—34 inches. Capacity 4000 lbs. Each.....	1.35		1.10
No. 3.—36 inches. Capacity 7000 lbs. Each.....	1.67		1.35
Contractors' Tubular Steel Doubletrees. Pattern No. 97. Somewhat Similar to Pattern No. 102.			
No. 3.—Evener 48 inches over all. Whiffletrees 36 inches over all. Per set.....	7.50		6.00
Steel Neck Yoke. Pattern No. 98.			
No. 2.—Length 46 inches over all. Each.....	2.75		2.20

"NEVERBREAK" TUBULAR STEEL SINGLE AND DOUBLETREES. Plow and Cultivator Singletrees, No. 211.			
Size C.—26 inches long, each.....	\$.80		\$.56
Size D.—28 inches long, each.....	.85		.60
Two-Horse Plow Doubletree, No. 200.			
Size GC.—Doubletree 34 inches, Singletrees 26 inches. Complete, per set.....	3.13		2.20
Size HE.—Doubletree 36 inches, Singletrees 30 inches. Complete, per set.....	3.60		2.55
Size JF.—Doubletree 38 inches, Singletrees 32 inches. Complete, per set.....	3.75		2.65
Handy Farm Wagon Doubletree, No. 203.			
Size NG.—Doubletree 46 inches, Singletrees 34 inches. Complete, per set.....	6.00		4.20
Steel Neck Yoke. Pattern No. 98—No. 2.—Length 46 inches over all. Each.....	2.75		2.20

U SINGLE, DOUBLE AND TRIPLETREES.
 Prices of Singletrees, Regular Hooks, 24-inch, 35c.; 26-inch, 40c.; 28-inch, 45c.; 30-inch, 50c. Singletrees with Malleable Hooks, 24-inch, 40c.; 26-inch, 45c.; 28-inch, 50c.; 30-inch, 60c. Doubletrees with Hooks, 36-inch, 80c.
Steel Tripletree Sets. complete, per set of 6 pieces, \$4.00.

Gamble Improved Three-Horse Equalizer No. 7 Right Hand Only.

This equalizer, while simple in construction, is strong and durable; is perfect in equalization, and absolutely removes all side draft. Can be changed very quickly from a three-horse to a doubletree by removing the long bar. **Price, \$5.50.**

A perfect 3-Horse Equalizer.
Price, \$5.50.

Gamble Improved 3-Horse Equalizer No. 7. Right-hand only.

New Gamble Four-Horse Equalizer No. A1 Right Hand Only.

This equalizer is similar to the above, except fitted for four horses instead of three. It is perfect in equalization, and is made of good strong material. **Price, \$6.00.**

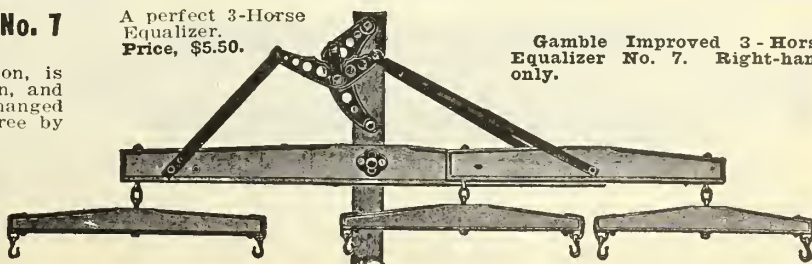
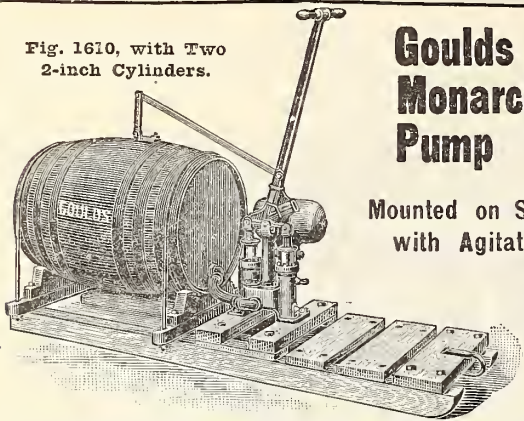


Fig. 1610, with Two 2-inch Cylinders.

Goulds Monarch Pump

Mounted on Skids with Agitator



This is an ideal outfit for spraying orchards, and is also widely used in whitewashing and cold-water painting. 200 pounds pressure can be obtained, and the man working the pump will not need to exert himself.

List Price. Our Price.

Fig. 1610. Pump, with Barrel Agitator, Skids, Strainer and Hose Coupling.....	\$64.00	\$38.25
Outfit "C," same as Fig 1610, except with 15-ft. No. 1 1/2-in. Discharge Hose and one Mistry, Jr., Nozzle.....	68.00	41.00
Outfit "D," same as Fig. 1610, except with two 15-ft. Leads, No. 1 1/2-in. Discharge Hose and two Mistry, Jr., Nozzles.....	72.00	43.25
Outfit "CC," same as Fig. 1610, except with 15-ft. No. 2 Wire Wound Hose and Mistry, Jr., Nozzle.....	69.50	41.75
Outfit "DD," same as Fig. 1610, except with two 15-ft. Leads, No. 2 Wire Wound Hose and Mistry, Jr., Nozzles.....	74.50	44.75

THIS IS A NEW SPRAY PUMP, AND IT ARRIVED TOO LATE FOR PROPER CLASSIFICATION. For other spray pumps and accessories, see Pages 57-62.

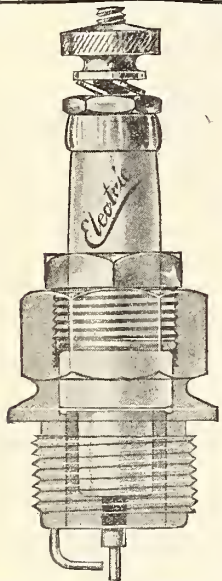
Electric Porcelain Spark Plug

The Electric Porcelain Spark Plug meets with universal satisfaction in either pleasure cars or heavy trucks and tractors. Quality and workmanship are guaranteed. It is made in 1/2-inch Standard Pipe Thread, Standard Metric and 3/8-18 A. L. A. M. Threads. Weight about 4 1/2 ounces.

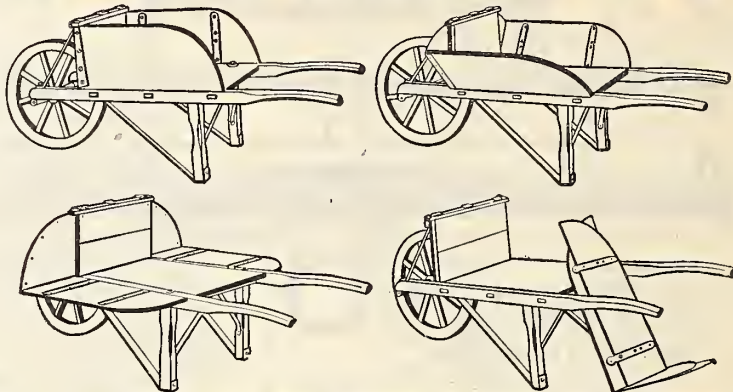
Price..... 75c.

Sleaford Spark Plug

A new plug with device for cleaning electrodes after taking plug from engine. High grade in construction, and very convenient. Send for special circular. Price.....\$1.25



Gritco - R Garden Barrow



It requires only a moment to change the sides to the desired height. No tools required to make the change.

The handiest thing about the place for corn or any big crop. Another barrow is of little use for this purpose.

Every gardener should have one, because he can carry four times the load of the usual barrow and make fewer trips. Just the thing for leaves, grass, rakings, etc.

It is framed of the best grade of seasoned hardwood carefully put together, then primed, painted and varnished; high carbon steel axle. Box (when sides are up) is 26 1/2 inches long, 19 1/4 inches wide at front, 22 1/4 inches wide at rear, 11 1/4 inches deep, and has a 20 1/2-inch wheel. Weight, 60 lbs.

Price.....\$5.00

Quaker Automobile Tires

THE HIGHEST CLASS RUBBER TIRES BUILT
10 PER CENT. OVERWEIGHT

GUARANTEED AGAINST DEFECT FOR 3500 MILES

These rubber tires are made from the best materials and are, therefore, the very best that can be had.



Size.	Plain Tread. Casings.	T. T. Casings (Non-Skid).	All Tubes.
*28x3	\$13.15	\$15.50	\$3.10
*30x3	14.00	16.90	3.35
*32x3	15.00	18.00	3.55
*30x3 1/2	20.70	25.25	4.40
†31x3 1/2	21.50	25.75	4.50
*32x3 1/2	22.05	26.25	4.70
*34x3 1/2	24.00	28.50	5.00
†31x4	30.80	36.50	5.85
*32x4	31.85	37.80	6.00
†33x4	33.00	39.00	6.30
*34x4	34.00	40.15	6.45
†35x4	35.25	41.40	6.55
*36x4	36.35	42.60	6.75
†37x4	37.40	43.80	6.90
*34x4 1/2	42.25	50.00	8.00
†35x4 1/2	44.60	52.25	8.15
*36x4 1/2	45.85	53.75	8.40
†37x4 1/2	47.00	55.15	8.65
†38x4 1/2	48.40	56.40	8.80
*36x5	56.35	66.00	9.80
†37x5	57.85	67.75	10.00
Plain Tread. †37x5 1/2	67.00	79.00	11.25

T. T. (Non-Skid.)
*MADE IN CLINCHER AND Q. D. †Q. D. ONLY.

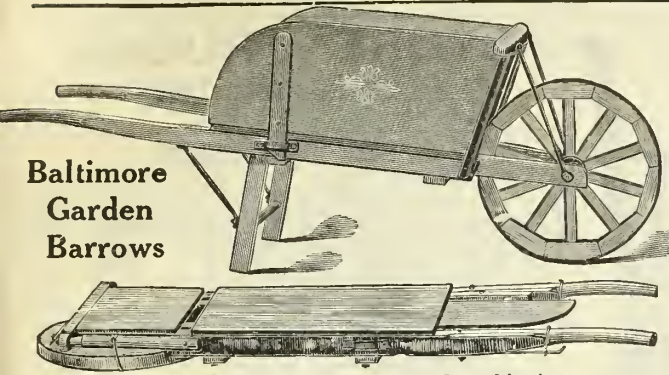


The "Electrene" Fire Extinguisher

Is simple in construction, and is made of heavy brass. The standard size weighs only 7 pounds. It is the product of much experience with hand fire apparatus, and it is guaranteed to do what is required and tried before shipment. It requires no pumping, except for refilling. Directions for refilling with each machine. To operate, it is only necessary to turn the nozzle, and it will throw a steady stream 30 to 40 feet. The stream can be directed accurately, and one hand of the operator is free to move obstructions, etc. The fluid is the most effective known, and will extinguish with surprising quickness highly inflammable fires of gasoline, carbide, oils, etc.; also Electric fires. It has no tendency like water to spread such fires. The fluid is not injurious to the most delicate fabrics, and will leave no trace of its presence. It will not freeze, and will not conduct electricity.

Price: 1 Quart Size, \$7.00; 1 1/2 Quart Size, \$9.00.

Baltimore Garden Barrows



Showing Above Barrow Folded for Shipping.

Made of seasoned wood, double frames, firmly bolted, iron braced and so constructed that by removing one bolt (the axle) and two nuts they can be folded flat down and shipped at lowest rate of freight.

No. 4, MEDIUM SIZE OR MAN'S BARROW.

Inside measurement of box—Width at wheel, 19½ inches; depth, 11 inches; width at handles, 23¼ inches. Length of handles, 48 inches; wheel, diameter, 18 inches; tire, 1½x3-16-inch; spokes, 1x1 inch; 8 spokes. Sides painted green, balance of barrow red, sides striped. Weight, 50 lbs. **Wood Wheel, List Price, \$5.60; Our Special Price, \$3.50. Steel Wheel, List Price, \$6.00; Our Special Price, \$3.75.**

No. 5, LARGE SIZE OR MAN'S BARROW.

Inside measurement of box—Width at wheel, 21 inches; depth, 12 inches; width at handles, 23¼ inches. Length at handles, 51 inches. Wheel diameter, 18 inches; tire, 1½x3-16 inches; spokes, 1x1¼ inches. Weight, 60 lbs. Finished as above. **Wood Wheel, List Price, \$6.00; Our Special Price, \$4.00. Steel Wheel, List Price, \$6.40; Our Special Price, \$4.25.**

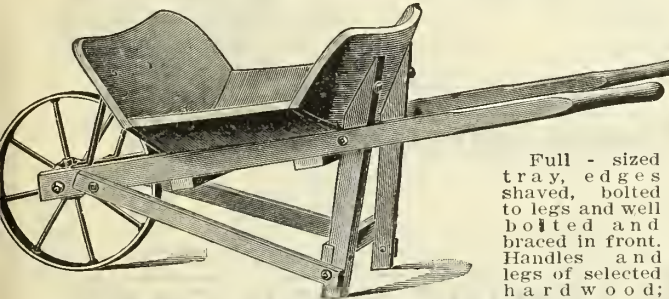
No. 1 Special Garden Barrow

Size—30 inches long, 24 inches wide in front, 25 inches in back. Sideboards—12 inches high, 30 inches long. Handles—5½ feet long, 2¾x1¾ inches. Wheel—21 inches diameter, 6 spokes. Hub—3-inch diameter in center, 2-inch diameter at ends.

No. 1 Barrow, with 1½-inch tread. Weight, 60 lbs. Six crated in one package, 56½ cubic feet.

Wood Wheel, List Price, \$7.20; Our Special Price, \$4.50. Steel Wheel, List Price, \$7.50; Our Special Price, \$4.75.

The Baltimore Canal Barrow



Full - sized tray, edges shaved, bolted to legs and well bolted and braced in front. Handles and legs of selected hardwood;

wheels painted. Furnished in both wood and steel wheel.

Wood Wheel, List Price, \$3.50; Our Special Price, \$2.25. Steel Wheel, List Price, \$3.80; Our Special Price, \$2.50.

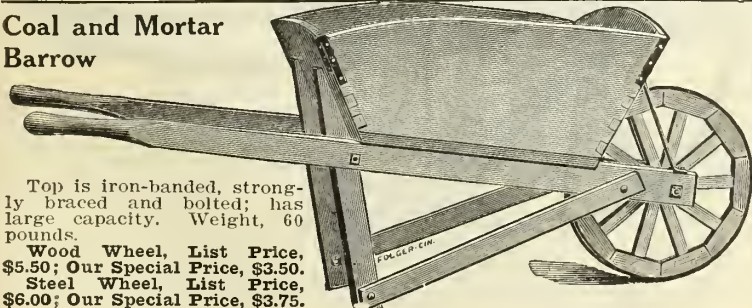
Weight, with wood wheel, 45 lbs. Weight, with steel wheel, 48 pounds.

THE PLAIN BOLTED CANAL BARROWS.

Ordinary size; bent tray; legs bolted to handles and well braced. Furnished with wood or steel wheel. Weight, with wood wheel, 40 lbs; weight, with steel wheel, 45 lbs.

Wood Wheel, List Price, \$3.00; Our Special Price, \$2.00. Steel Wheel, List Price, \$3.20; Our Special Price, \$2.25.

Coal and Mortar Barrow



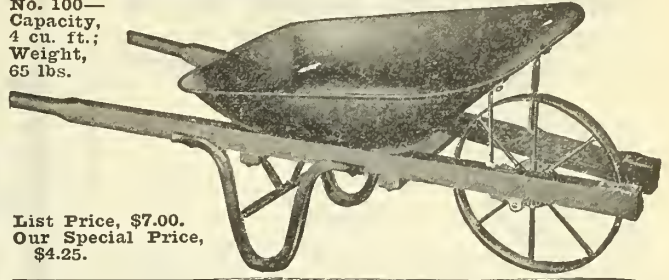
Top is iron-banded, strongly braced and bolted; has large capacity. Weight, 60 pounds.

Wood Wheel, List Price, \$5.50; Our Special Price, \$3.50. Steel Wheel, List Price, \$6.00; Our Special Price, \$3.75.

Solid Pressed Steel Tray Barrow

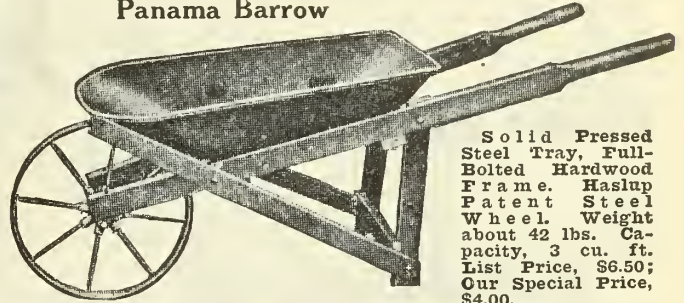
ANGLE STEEL LEGS AND BRACES. METAL TIPPED EXTENSION HANDLES.

No. 100—Capacity, 4 cu. ft.; Weight, 65 lbs.



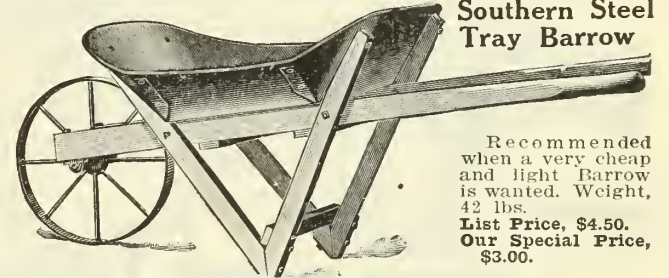
List Price, \$7.00. Our Special Price, \$4.25.

Panama Barrow



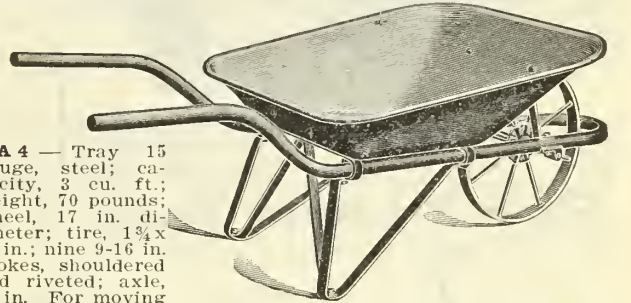
Solid Pressed Steel Tray, Full-Bolted Hardwood Frame. Haslup Patent Steel Wheel. Weight about 42 lbs. Capacity, 3 cu. ft. List Price, \$6.50; Our Special Price, \$4.00.

Southern Steel Tray Barrow



Recommended when a very cheap and light Barrow is wanted. Weight, 42 lbs. List Price, \$4.50. Our Special Price, \$3.00.

Tubular Frame Solid Pressed Steel Tray Barrow



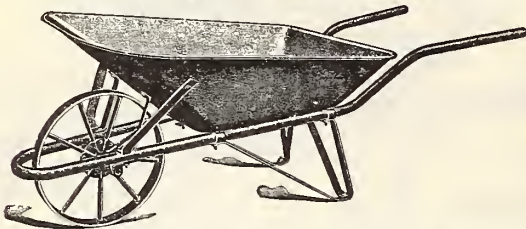
A 4 — Tray 15 gauge, steel; capacity, 3 cu. ft.; weight, 70 pounds; wheel, 17 in. diameter; tire, 1¾ x ½ in.; nine 9-16 in. spokes, shouldered and riveted; axle, ¾ in. For moving earth, ashes and light work. List Price, \$7.50; Our Special Price, \$4.50.

B 5 — Tray, 14 gauge, steel; capacity, 5 cubic feet; weight, 85 lbs.; mounted on same frame and wheel as A 4. For general purposes and light running. It will stand hard usage. List Price, \$9.00; Our Special Price, \$5.50.

EXTRAS FOR BARROWS.

	List Price.	Our Spec'l Price.
Wood Wheels for Nos. 4 and 5 Garden Barrows	\$2.00	\$1.25
Steel Wheels for Nos. 4 and 5 Garden Barrows	2.40	1.50
Wood Wheels for No. 1 Garden Barrow	2.40	1.50
Steel Wheels for No. 1 Garden Barrow	1.50	1.75
Steel Wheels for Nos. A 4, B 5 and Style D Barrows	2.40	1.50
Steel Wheels for Panama Barrow	2.00	1.25
Steel Wheels for No. 10 Barrow	3.20	2.00
Wood Wheels for Canal Barrow	1.50	1.00
Steel Wheels for Canal Barrow	2.00	1.25
Tray—No. Style D and A 4	3.20	2.00
Tray—No. B 5	4.00	2.50
Tray—Panama Barrow	3.20	2.00

SOLID PRESSED STEEL TRAY COAL AND COKE BARROW No. 10



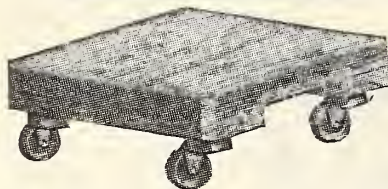
One-piece tubular steel frame extending around in front of wheel. Frame strongly braced and well ironed. Tray of best quality steel, with wired edge. Size No. 10—Gauge of steel in tray, 13; length of top of tray, 41½ in.; width of top of tray, 23 in.; depth of wheel, 12 in.; depth at handle, 6 in.; capacity, 6 cubic feet; weight, 110 lbs. Price, \$8.00.
Steel Wheels, each, \$1.50. Extra Trays, \$5.00.

STRAIGHT HANDLE STONE BARROW

Strong, well made, iron strapped over bottom, and well bolted together. Handles 6 feet long; legs, 12 inches long; bottom, 1¼ inches thick by 23 inches wide by 27 inches long; dash, 10 inches high; weight, 64 pounds. Price, \$3.50.

Straight Handle Brick Barrow, \$5.50.

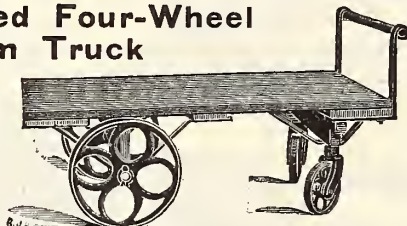
HANDY FOUR-WHEEL TRUCK



For store use. It is indispensable for moving barrels, boxes, etc., about the store. It will soon pay for itself. Price, \$1.50.

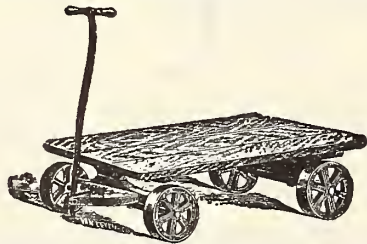
Improved Four-Wheel Platform Truck

For Canning House, Railroad Stations and Warehouse. Cheap, strong and well made.



No.	Size Platform	Diam. Wheels	Diam. Caster	Weight	List	Retail
No. 1	—2x4 ft.	12 in.	6 in.	120 lbs.	\$25.00	\$17.50
No. 21	—3x5 ft.	18 in.	9 in.	200 lbs.	35.25	25.00

Plain Platform Truck



We are prepared to quote special prices on Trucks of every description. If you want anything special, write us for prices.

No.	Size of Platform	Diam. Wgt. Ws.	List	Retail
82	—2 ft. 4 in. by 3 ft. 4 in.	100 7½	\$14.00	\$10.00
83	—2 ft. 6 in. by 3 ft. 6 in.	115 7½	15.00	10.75
84	—3 ft. by 4 ft.	125 8½	17.00	12.00

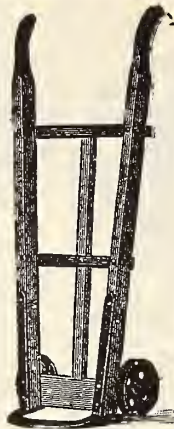
Can furnish Special Trucks at lowest prices; also Truck Wheels. Write for prices.

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

STORE TRUCKS

BALTIMORE STORE TRUCK

Retail Price.....\$2.00



BALTIMORE STORE TRUCK.

NEW YORK PATTERN

HALF STRAPPED.		FULL STRAPPED.	
No.	List Price	List Price	Retail Price
No. 0	\$4.50	\$5.50	\$3.00
No. 1	5.00	6.00	3.25
No. 2	7.50	8.50	4.60
No. 3	8.75	9.75	5.30
No. 4	12.25	13.25	7.20
No. 5	15.50	16.75	9.05

NEW YORK PATTERN.—SIZES.

No.	Length Handles	Width Nose	Width at Upper bar	Diameter Wheels	Weight
No. 1	4'0"	12½"	18"	8"	42 lbs.
No. 2	4'5"	14"	19½"	9½"	44 lbs.
No. 3	4'8"	15"	21"	9½"	72 lbs.
No. 4	5'0"	16"	22½"	11"	85 lbs.
No. 5	5'3"	17"	24"	11"	90 lbs.
No. 6	5'9"	20"	23½"	12"	125 lbs.

BARREL TRUCKS

No.	List	Retail	No.	List	Retail
No. 1	\$7.75	\$4.20	No. 4	\$19.25	\$10.40
No. 2	11.00	5.95	No. 5	23.25	12.60
No. 3	16.00	8.65			

No.	Length Handles	Width Nose	Width at Upper bar	Diameter Wheels	Weight
No. 1	4'0"	12"	17½"	7"	42 lbs.
No. 2	4'6"	14"	18½"	8"	53 lbs.
No. 3	4'7"	15"	20½"	9"	76 lbs.
No. 4	5'0"	16"	21"	9½"	95 lbs.
No. 5	5'3"	18"	22"	10"	125 lbs.

COTTON TRUCKS

No. 3	List \$9.75	Retail \$5.30
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No.	Length Handles	Width Nose	Width at Upper Bar	Diameter Wheels	Weight
3	4'10"	15½"	21"	9½"	74 lbs.
4	5'0"	16"	23"	11"	104 lbs.
5	5'3"	18"	22"	10"	95 lbs.
6	5'9"	20"	23½"	12"	125 lbs.

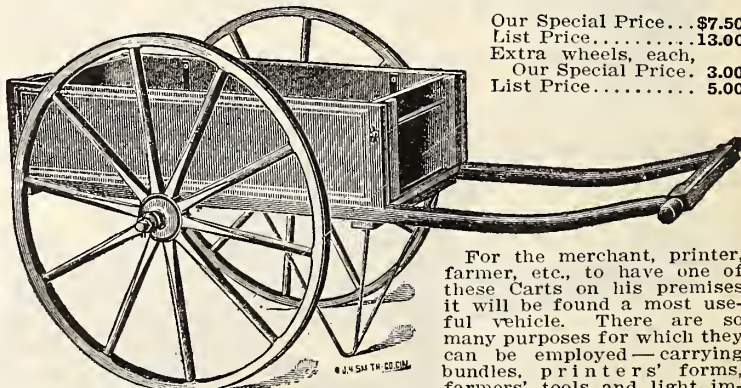


NEW YORK PATTERN.

Dimensions and Prices Cast-Iron Truck Wheels

No.	Lbs. Wt.	Hgt. In.	Face. In.	Hub. In.	Bore. In.	List	Retail
No. 0	4½	6½	1½	2¼	¾ x 7/8	\$0.54	\$0.35
Nos. 1 and 2	7¼	8	2	2 7/8	¾ x 7/8	.87	.60
No. 3	12¾	9½	2½	3¼	7/8 x 1	1.52	1.00
Nos. 4 and 5	17½	11	3	3¾	1 x 1 1/8	2.10	1.50
Heavy	25	12	3	3¾	1 x 1 1/8	3.00	2.00

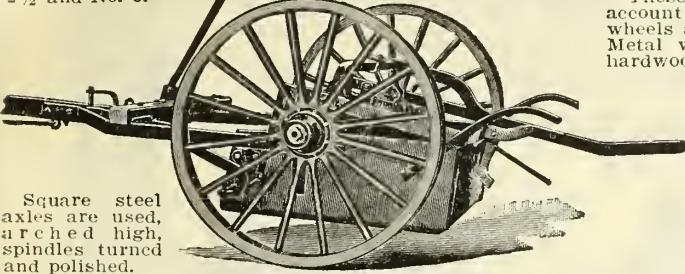
BALTIMORE PUSH CART



Our Special Price...\$7.50
List Price.....13.00
Extra wheels, each,
Our Special Price. 3.00
List Price..... 5.00

For the merchant, printer, farmer, etc., to have one of these Carts on his premises it will be found a most useful vehicle. There are so many purposes for which they can be employed—carrying bundles, printers' forms, farmers' tools and light implements, etc. It is never out of place, and always ready to pick up at short notice. They are nicely finished; higher wheels, better ironed and altogether superior to anything of the kind on the market. There is now an immense demand for these Carts, but notwithstanding we have placed the price low.

Snatch Rod regularly furnished with No. 2½ and No. 3.



Square steel axles are used, arched high, spindles turned and polished.

HASLUP WHEEL SCRAPERS

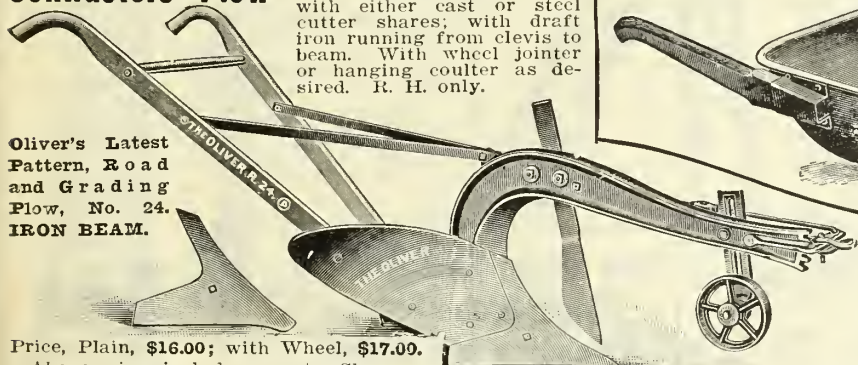
These scrapers are very popular with the contractor trade on account of their splendid construction and convenience. The wood wheels are made of thoroughly seasoned stock and are very strong. Metal wheels can be furnished on order. Tongues, best quality hardwood, heavily ironed, with double steel draft bars.

		Size of Bowl.						
Size.	Capacity.	Long.	Wide.	Deep.	Wheels.	Tire.	Axle.	
No. 1	9 Cu. ft.	36"	36"	12"	36"	3x¼"	1½"	
No. 2	13 Cu. ft.	37"	35"	13½"	40"	3x5-16"	1¾"	
No. 2½	14½ Cu. ft.	41"	38"	14"	44"	3x5-16"	1¾"	
No. 3	17 Cu. ft.	41"	41"	16"	44"	3x5-16"	1¾"	
No. 1	—Weight, 450 lbs.							Price, \$30.00
No. 2	—Weight, 600 lbs.							Price, 40.00
No. 2	—With Snatch Rod.							Price, 41.50
No. 2½	—With Snatch Rod, weight, 675 lbs.							Price, 42.50
No. 3	—With Snatch Rod, weight, 750 lbs.							Price, 47.50
Wood Doubletrees and Neck Yoke, \$3.00 extra.								

The No. 24 Iron Beam, Right Hand Contractors' Plow

Strong, heavy. Furnished with either cast or steel cutter shares; with draft iron running from clevis to beam. With wheel jointer or hanging coupler as desired. R. H. only.

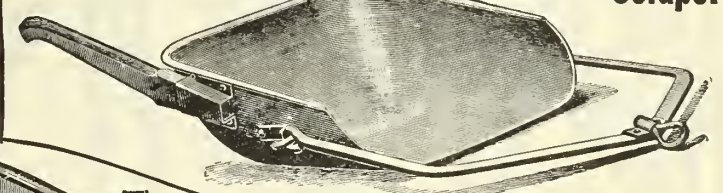
Oliver's Latest Pattern, Road and Grading Plow, No. 24. IRON BEAM.



Price, Plain, \$16.00; with Wheel, \$17.00. Above prices include one extra Share.

Haslup Round

Back, Solid Pressed Drag Scraper



PRICES WITH 2 STEEL RUNNERS.

Size.	Capacity.	Weight.	Price.
No. 1	7 Cu. ft.	100 lbs.	\$5.75
No. 2	5 Cu. ft.	90 lbs.	5.50
No. 3	3½ Cu. ft.	80 lbs.	5.25

For extra Bottom Plate add 50c.

The best Drag Scrapers made on account of construction, weight and quality of material.

REPAIRS FOR CONTRACTORS' PLOWS, Price List on Page 97.

Contractors' Tubular Steel Double and Singletrees and Neck Yokes. See page 169.

Baltimore Contractors' Plow

No. 0—Right or Left Hand; two-horse; weight, 180 lbs., with extra bar share, \$22.50.

No. 1—Right or Left Hand; 2 to 4 horse; weight, 200 lbs., with extra bar share, \$25.00.

No. 2—Right or Left Hand; 4 to 6-horse; weight, 270 lbs., with extra bar share, \$27.50.

No. 0—Right or Left Hand Bar Share, 4.00

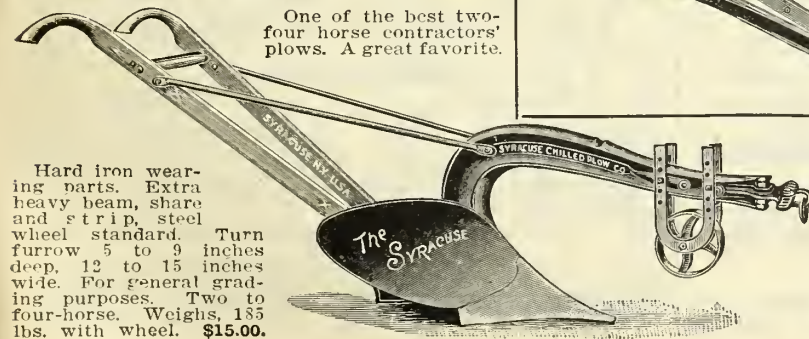
No. 1—Right or Left Hand Bar Share, 4.50

No. 2—Right or Left Hand Bar Share, 4.50

Syracuse Contractors' Plow No. 1

One of the best two-four horse contractors' plows. A great favorite.

Hard iron wearing parts. Extra heavy beam, share and strip, steel wheel standard. Turn furrow 5 to 9 inches deep, 12 to 15 inches wide. For general grading purposes. Two to four-horse. Weighs, 185 lbs. with wheel. \$15.00.



No. 80 Chattanooga Steel Beam Rooter Plow

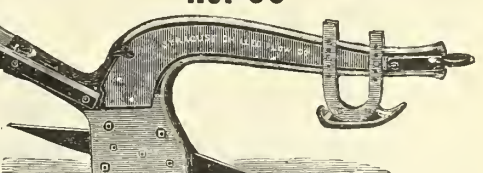
Malleable Iron Standard.

Extra long steel handles, well braced. Removable side plates and steel bar point interchangeable with No. 81 Rooter Plow. Weight, 225 lbs. Price, \$25.00

No. 81 Chattanooga Steel Beam Rooter Plow

Similar to the No. 80 above, except it has an iron beam. Weight, 375 lbs. Price, \$25.00

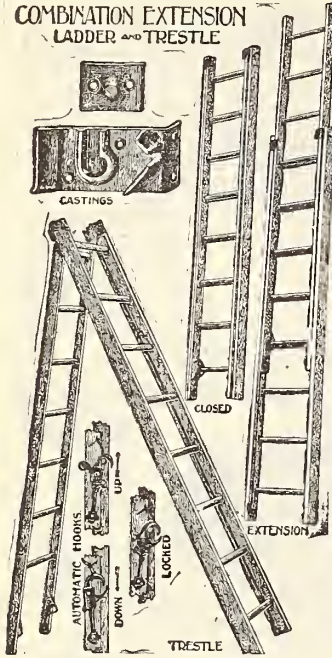
Syracuse Pavement Plow No. 98



Adjustable and double-bar steel point. Adjustable shoe in place of wheel. Loop handle wear irons. Very strong. Specially adapted for tearing cobblestones and macadam pavements. Four or six-horse. Weight, 265 lbs. Without extra point, Price, \$30.00.

SYRACUSE CONTRACTORS' PLOW No. 99
Four to Eight Horses. Weight, with Shoe, 310 lbs. Without extra Share, \$35.00.

COMBINATION EXTENSION LADDER AND TRESTLE

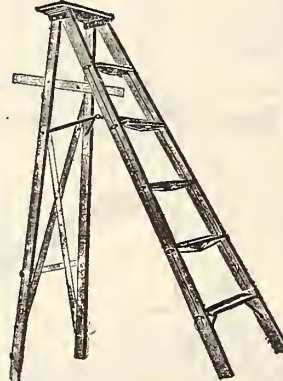


Gritco Combination Extension Ladder and Trestle

This is a first-class ladder, with rope and pulley attachment above 18 feet. Has automatic Hooks and can be used as an Extension Ladder, or can be converted into a Trestle, which also serves as a Stepladder. Can be taken apart. Always made in equal sections; 12 to 28 feet. **Price, per ft., 18c.**
Above 24-ft. we prefer the Rope and Pulley Extension.

Gritco "Security" Step Ladder With All-Steel Lock

Made from strictly clear seasoned wood. Extra wide steps and top. Has very strong, full looped, galvanized steel hinge or ear, with right angle flange to which top is riveted. **Every step is rodded and trussed**, so that it is constantly being drawn together when there is weight upon the steps; can not get rickety. Braces are all steel bound; secure in every point. **4 to 12 ft., per ft., 30c.**
12 to 16 ft., extra heavy, per ft., 40c.



GRITCO PULLEY EXTENSION LADDER

There is not a finer ladder on the market.

Norway and spruce sides; 1 1/4-inch straight, air dried **First-Class Hickory** rounds.

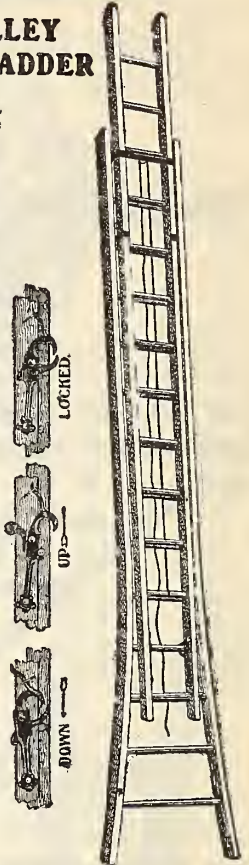
Spread at base; 6 to 10 inches more than regular width of ladder.

Has Automatic Hooks and is operated by the rope. It can be easily and quickly taken apart and put together.

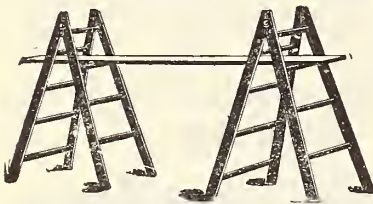
26 to 30 ft., per ft., 18c.

32 to 44 ft., per ft., 20c.

Allow 2 feet for lap on ladders 32 feet and under, and 3 feet on ladders over 32 feet.



"A"-Shaped Trestles



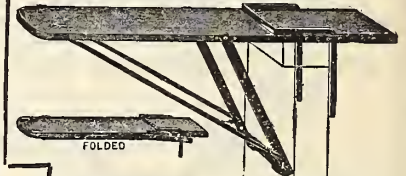
STRONG AND LIGHT.
Made in All Sizes, From 6 Feet to 12 Feet.

	Pair.
2 6-ft. Trestles...	\$5.40
2 8-ft. Trestles...	7.20
2 10-ft. Trestles...	9.00
2 12-ft. Trestles...	10.20

New Model Semi-Tubular Steel Brace Step, Extension and Single Ladders



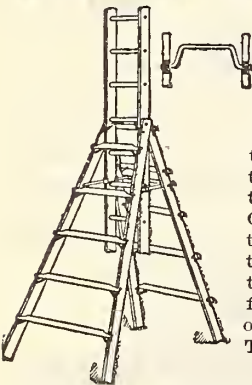
WINDOW BRACKET OR PAINTERS' CRIPPLE.



Strong, folds up closely; weight, 24 pounds. Made of best material. Safe, and can be quickly adjusted to any window.

Regular Size, 4 ft. 4 in. board, **\$5.00** each.
Extra Size, 6 ft. board, **\$6.00** each.

Extension Trestles



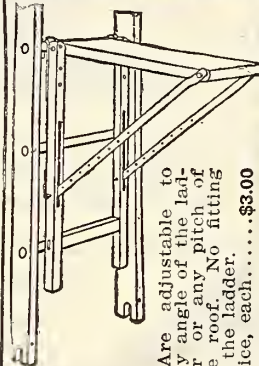
AUTOMATIC LOCKING DEVICE.

No rods to take out, no thumb nut to adjust. One set of these Trestles will take the place of four sets of ordinary Trestles.

6-ft. will extend to about 8 ft.	Each. \$4.50
7-ft. will extend to about 12 ft.	5.09
8-ft. will extend to about 14 ft.	5.50
9-ft. will extend to about 16 ft.	6.59
10-ft. will extend to about 18 ft.	7.75

Other lengths will be furnished on order.

Ladder Brackets



Are adjustable to any angle of the ladder or any pitch of the roof. No fitting to the ladder. Price, each, **\$3.00**

Tilley All-Iron Ladder Brackets

Per Pair, **\$5.00.**

A 16-foot Single Ladder weighs only 21 to 25 pounds. By drawing out a small rod at top of stepladder it can be converted into two separate ladders. These goods are made almost entirely by hand, and are very much superior to factory ladders.

10 feet.....	\$2.50	14 feet.....	\$3.50	18 feet.....	\$4.90
12 feet.....	3.00	16 feet.....	4.00	20 feet.....	5.50
WOOD COLUMBIA DOUBLE STEPLADDERS.					
4 feet.....	\$1.75	8 feet.....	\$3.50		
6 feet.....	2.60	10 feet.....	4.50		
EXTENSION LADDERS.					

Two Ladders.			Two Ladders.		
Each.	Extended.	Price.	Each.	Extended.	Price.
10 feet...	17 feet...	\$6.75	16 feet...	29 feet...	\$11.00
12 feet...	21 feet...	8.00	18 feet...	33 feet...	13.50
14 feet...	25 feet...	9.50	19 feet...	35 feet...	14.50
15 feet...	27 feet...	10.00	20 feet...	37 feet...	15.00

HASTING'S STEPLADDER with upright support under each step. Stiff, Strong and Durable. All lengths, from 6 to 10 feet, 20c. per foot.

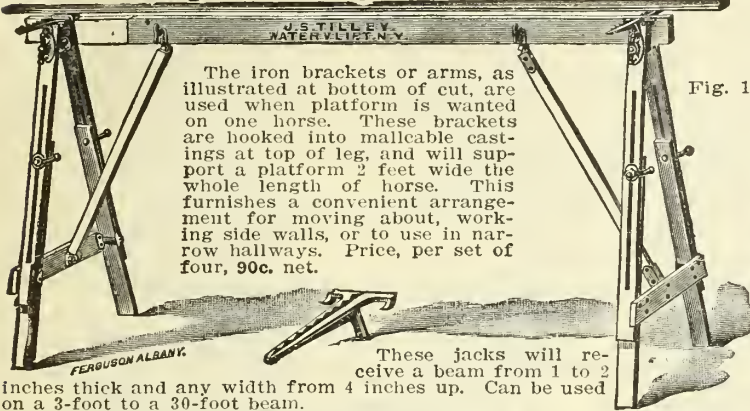
First Class in Every Particular. Special Prices to Paper-hangers, Painters and the Trade Generally on all Ladders.

WETTING STEPLADDER. Good quality. All lengths, from 4 to 10 feet, at 18c. per foot. Special prices in quantities.

TILLEY EXTENSION TRESTLES

Prices on Application.

Tilley Adjustable Scaffolding Jacks



The iron brackets or arms, as illustrated at bottom of cut, are used when platform is wanted on one horse. These brackets are hooked into malleable castings are hooked into leg, and will support a platform 2 feet wide the whole length of horse. This furnishes a convenient arrangement for moving about, working side walls, or to use in narrow hallways. Price, per set of four, 90c. net.

Fig. 1

These jacks will receive a beam from 1 to 2 inches thick and any width from 4 inches up. Can be used on a 3-foot to a 30-foot beam.

Are light, strong and suitable for plasterers, carpenters, painters and paperhangers, the putting up of metal ceilings, shafting, pulleys, etc. Nos. 8 and 13 have an extra end brace on slotted legs, with iron brace at each end of same. Nos. 9, 10, 14, 15 and 16 have extra end braces, same as 8 and 13; also have an extra grip on friction bolt in each traveling leg, making the jacks much stronger than formerly. This improvement consists of suspension brackets, which permits of making a scaffold at any elevation lower than the height of the jack when down to its limit. These brackets can be used with jacks already sold. They cost but 60c. With them and the proper size jack the scaffold can be made to fit a store or basement.

Fig. 2 shows two jacks represented in Fig. 1 as "knocked down." It is unnecessary to comment upon its compact form.



Fig. 2

3 3/4 x 1 1/4 Slotted Leg. 3 3/8 x 1 1/8 Traveling Leg.

No.	Per Jack.
5. Stands 3 ft. high, will extend to 5 ft.	\$2.50
6. Stands 4 ft. high, will extend to 6 ft.	2.50
7. Stands 5 ft. high, will extend to 8 ft.	2.80
8. Stands 6 ft. high, will extend to 9 ft.	3.20
9. Stands 7 ft. high, will extend to 11 ft.	3.55
Brackets, per set of four, net.	.90

EXTRA HEAVY FOR PLASTERERS AND MILL WORK.

4 x 1 3/4 Slotted Leg. 3 3/8 x 1 1/8 Traveling Leg.

No.	Per Jack.
11. Stands 4 ft. high, will extend to 6 ft.	\$2.90
12. Stands 5 ft. high, will extend to 8 ft.	3.20
13. Stands 6 ft. high, will extend to 9 ft.	3.60
14. Stands 7 ft. high, will extend to 11 ft.	4.00
15. Stands 8 ft. high, will extend to 12 1/2 ft.	4.30
16. Stands 10 ft. high, will extend to 15 ft.	6.00

Tilley Improved Sectional Ladders

Sections 6 feet 5 inches long. Either plate and pin lock or lock nut fastening. Per Section, \$1.50.

SINGLE LADDERS

Made of spruce, with hand shaved oak rounds; first class in every particular.

Price.

12, 14, 16, 18 feet.

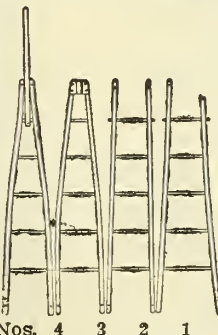
15c. per foot.

Ladders over 18 feet, 2c. per foot extra.

Also have a cheaper single ladder, 2c. per foot less than above prices.

- No. 1—Bottom or floor section.
 - No. 2—Regular or middle section.
 - No. 3—Top window cleaners' section.
 - No. 4—Top fruit pickers' section.
- Price, any section, per section, \$1.50.

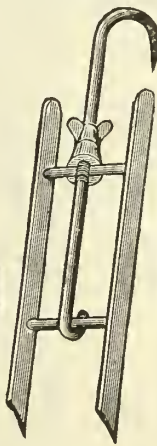
Window Cleaners' and Fruit Pickers' Ladders



Nos. 4 3 2 1

This old reliable and well-known ladder hook needs very little explanation. The cut explains all its merits and utility for a roof ladder. It can be quickly attached or detached. Price, 50c. each.

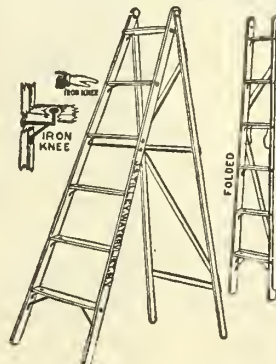
TILLEY LADDER HOOK



out through the sides and riveted at both ends, forms a positive tie support and regular brace.

6-Step.. \$2.40	12-Step.. \$4.80
8-Step.. 3.20	14-Step.. 7.00
10-Step.. 4.00	16-Step.. 8.00

DECORATORS' LADDERS



4-Step.. \$1.00	8-Step.. \$2.00
6-Step.. 1.50	10-Step.. 2.50

OUR IMPROVED TILLEY EXTENSION LADDERS

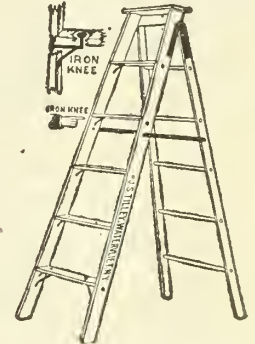
These ladders are stiff, strong and well built. Have improved patent spring locks attached to traveling sections, and are automatic in action. These locks are fastened securely to the inner sides of upper section, and made of the best malleable iron. They are also provided with a durable spring, which keeps the hook thrown forward and grasps each round of the stationary ladder as the traveling ladder passes upward. A tripper forces the hook back, allowing it to pass the rounds when descending.

PRICES.

24 ft., 2-12 ft. sec., extends 21 ft.	\$6.00
26 ft., 2-13 ft. sec., extends 23 ft.	6.50
28 ft., 2-14 ft. sec., extends 25 ft.	7.00
32 ft., 2-16 ft. sec., extends 29 ft.	8.00
36 ft., 2-18 ft. sec., extends 33 ft.	9.00
40 ft., 2-20 ft. sec., extends 36 ft.	12.00

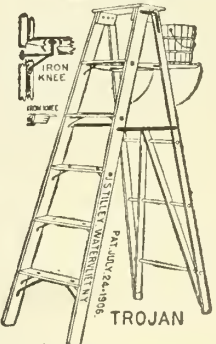
Other Lengths Given on Application. Windlass Ladders can be furnished if desired. Prices on application!

TILLEY ELECTRICIANS' STEP LADDER



Constructed as shown in cut above. Strictly first-class in every respect. A Combination Step Ladder and Trestle. Just the ladder for Electricians, Painters, Plumbers and mill work. A combination knee, tie and regular brace (as shown in detached cut) under each end of each step, which passes down through the step

TILLEY TROJAN STEP LADDER



Light, strong and stiff. Iron knees under ends of each step. These knees pass entirely through the steps and side bars, holding ladders firmly together and insuring a strong brace to the steps. Pail rests on all sizes of 5 feet and over. Furnished in 6, 8, 10 and 12-foot lengths. Price, 30c. per foot.

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FERTILIZERS FOR THE FARM, LAWN and GARDEN

The application of Fertilizers has been a topic much discussed among farmers generally. The quality and requirements of the soil are so varied, some lands being deficient in Potash, Phosphoric Acid, or some other chemical ingredient, that it is frequently very difficult for the farmer to determine just what mixture he needs. We give below a line of fertilizers best adapted to the various soils and crops.

Ammoniated Alkaline Plant Food.

Our old stand-by for summer crops; is used largely on Potatoes, Corn, Tobacco and other summer crops. stands the hot, dry weather particularly well.

Price, \$ 2.00 per bag.
\$22.50 " ton.

Ammoniated Butchers' Bone Phosphate.

Is made largely from slaughter-house stock; used principally for Wheat and Grass, as well as by growers of Corn and Tomatoes for canning purposes; a good article at a low price.

Price, \$ 2.00 per bag.
" \$22.50 " ton.

Animal Bone Phosphate.

Made principally from Animal Bone, Potash and Ammoniates in proper proportion. A complete manure always gives good results. Specially adapted to the growth of Peas, Cabbage, Wheat and Grass—it contains all the ingredients necessary to supply what may be lacking in the soil for almost any crop.

Price, \$ 2.50 per bag.
" \$28.00 " ton.

Soft Ground Bone.

Made from softer material than the regular "Ground Bone," and contains some little meat and blood. The great objection to the use of Pure Bone (the price) no longer prevents its use by anyone wanting to restore worn-out land. Try it and he convinced.

PRICES.

5 lb. package 25c. 10 lb. package 40c.
\$2.50 per bag, 167 lbs. \$28.00 per ton.

Bone Flour.

Made especially for Florists and Gardeners. Is exceedingly fine, and in addition to this, it is the Pure Bone, containing no foreign matter at all. Write for sample.

Price \$2.50 per bag of 100 pounds.

Special Mixture.

A new brand introduced by us this year; a complete Fertilizer, containing Ammonia, Potash and available Phosphoric Acid in proper proportions.

Price, \$1.75 per bag. \$18.00 per ton.

Blood, Bone and Potash Mixture.

ANALYSIS 5-8-7.

Special High Grade Trucking Fertilizer. Exceedingly used by the leading truckers of Baltimore and Anne Arundel Counties with great success.

Price, \$3.50 per bag. \$36.00 per ton.

Special High Grade Fertilizers

ANALYSIS

Ammonia—Av. Phosphoric Acid—Potash

4	8	6	\$37.50 per ton
4	8	10	40.00 " "

Special Potato Fertilizer.

Made especially for potatoes, running high in Potash and containing Ammonia and Available Phosphoric Acid in proper proportion for good results on this crop.

Price, \$2.25 per bag. \$25.00 per ton.

Tobacco Bed Fertilizer.

This brand is specially well adapted for use on tobacco beds, containing 10 per cent. of Ammonia and a large percentage of Potash and Phosphoric Acid. A most excellent substitute for Peruvian Guano. In bags, 167 lbs.

\$4.00 per bag. \$45.00 per ton.

Land Plaster.

In bags, 200 lbs. each.
\$1.00 per bag. \$9.00 per ton.

Pulverized Sheep Manure.

This is purely a natural and most nutritious plant food, clean to handle, and its effect is immediate and lasting. There is nothing better to mix with soil for potting plants. Florists who use it extensively advise mixing about one-seventh manure and six-sevenths soil. As a top dressing for lawns, it is unequalled.

5 lbs. 25c. 10 lbs. 40c. 30 lbs. \$1.00
50 lbs. \$1.25 100 lbs. \$2.00

Special prices in tons, ½ tons, or carload.

Hardwood Ashes, Unleached.

Most excellent for lawn dressing or orchards. Apply late in the fall or early spring, in order that the rains may leach the ashes and carry the elements down to the roots of the trees or grass. These ashes are in proper condition for immediate use. Apply at a rate of 1000 to 1500 pounds per acre.

Price, 100 pounds, \$1.50 Barrel, \$2.50
Ton, \$18.00.

Fine Ground Fish Ground Tankage. High Grade Acid Phosphate.

Kanit, Muriate of Potash. Nitrate of Soda. Peruvian Guano.

10 per cent. goods. In bags of 167 pounds.

PRICES ON APPLICATION.

Agricultural Hydrated Lime.

Agricultural Hydrated Lime is guaranteed to be 96 to 97% pure. Prof. Fippin of Cornell University says: That for fertilizer 60 lbs. Hydrated Lime produces same results as 100 lbs. of Air Slaked or 250 lbs. of Ground Rock Lime.

85% of Hydrated Lime will pass through a 200 mesh screen. Hydrated Lime is the strongest rectifier of impure soils and produces greatest results. Hydrated Lime is the best for drilling. Every impurity is taken out of Agricultural Hydrated Lime. There is no core.

PRICES.

In paper bags, carload lots F. O. B. Factory.....

In paper bags, ton lots F. O. B. Balto. \$9.00 per ton.

In burlap bags, 100 lbs. \$1.00 per bag.

In paper bags, 40 lbs. 50 cents per bag.

Lemon Oil Co.'s Standard Insecticide.

We recommend this insecticide, which is used by the most prominent seedsmen and florists to destroy Scale, Mealy Bug, Spider, Rust, Aphid, Caterpillar, Etc., on Palms, Rose Bushes, Rubber Plants, Ferns, Etc. Being odorless, it leaves no foreign odor on blooms or foliage—advantages over the vile smelling soaps and powders—especially for indoor use. Being Poisonless, it is safe to both user and plants.

This preparation is one of the best and safest flea killers, wash and mange remedies for dogs and other animals.

It will also be found very destructive to lice and other insects on poultry, also roaches and other insects that infest houses.

Dilute with water 30 to 50 parts.

Prices: Half Pint, 25c. Pint, 40c. Quart, 75c.

Half Gallon, \$1.25 Gallon, \$2.00 Five Gallon

Can, \$9.00 Ten Gallon Can, \$17.50.

Kil-O=Scale.

Kil-O=Scale is a scientific chemical compound, not a mixture of several ingredients. Is perfectly soluble in water in any proportion. Will stay in suspension indefinitely.

Kil-O=Scale dissolves the wax which cements the scale or protecting cover of the insect to the tree; contracts the scale of coating covering the insect, thus exposing the insect itself to the direct action of the insecticide; forms after spraying a coating, which prevents any young scale from settling before they die from exposure. Kil-O=Scale is not a quick remedy, but is prepared for the specific purpose of killing the San José Scale.

Directions:—Dilute 1 gallon of Kil-O=Scale to 18 gallons of water.

PRICES.

Pint 30c. Quart 50c.

Half-Gallon 75c. One Gallon \$1.25

Two Gallons \$2.25 Five Gallons \$5.00

Ten Gallons \$10.00

Barrels and Half Barrels, per gallon 85c.

WE ARE HEADQUARTERS FOR SPRAY PUMPS AND INSECTICIDES
WRITE US FOR SPECIAL PRICES AND CIRCULARS

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ANIMAL
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LEMON OIL CO'S. INSECTICIDE

IS RECOMMENDED AND IN USE BY THE LEADING SEEDSMEN AND FLORISTS.