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1905

# GRIFFITH AND TURNER CO.



## FARM AND GARDEN SUPPLIES

General Offices,

205, 207, 209, 213 & 215 N. PACA ST.

### BALTIMORE, MD.

BRANCH HOUSES,

366 N. GAY ST. BALTIMORE AND REISTERSTOWN, 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 1/2 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 Price 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.

**PRICES TO MARKET GARDENERS.**—Market gardeners, and all other purchasers of Seeds in large quantities, should send for our 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.
- BEEFS.**—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 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.
- ONION.**—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.
- CABBAGE.**—1 oz. of Seed will produce.....2000 plants.
- CAULIFLOWER.**—1 oz. of Seed will produce.....2000 "
- CELERY.**—1 oz. of Seed will produce.....3000 "
- EGG PLANT.**—1 oz. of Seed will produce.....1000 "
- LETTUCE.**—1 oz. of Seed will produce.....3000 "
- PEPPER.**—1 oz. of Seed will produce.....1000 "
- TOMATO.**—1 oz. of Seed will produce.....1500 "

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

**DISTANCE FOR PLANTING.**

Std. Apple	33 to 40 feet each way.
Std. Pear and large-growing Cherry	20 " " "
Duke and Morello 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. Kentucky Blue	28 lbs.
10 " Red Top, if for lawns	30 to 40 "
10 " Red Top, if for pasture	15 to 30 "
32 " Red Top, extra re-cleaned	20 to 25 "
14 " Orchard Grass	42 "
24 " English Rye or Perennial Rye	60. "
22 " Italian Rye	50 "
14 " Meadow Fescue	50 "
14 " Tall Meadow Fescue	50 "
12 " Sheep Fescue	30 "
7 " Meadow Foxtail	30 "
21 " Crested Dog's Tail	25 "
14 " Awlless Brome	35 to 40 "
14 " Wood Meadow	30 "
20 " Creeping Bent	50 "
10 " Tall Meadow Oat	50 "
45 " Timothy, alone	7 1/2 bus.
" with other grasses	8 to 10 lbs.
60 " Alsike, alone	6 "
60 " Alfalfa or Lucerne	20 "
60 " White Clover, alone	6 "
" White Clover, with other grasses	3 "
20 " Evergreen Lawn	3 to 4 bus.
60 " Crimson Clover	15 to 20 lbs.
50 " German Millet	50 "
48 " Hungarian Millet	48 "
60 " Red Clover	15 "
Together for an acre—	
Red Clover	8 "
Timothy	10 "
Red Top	14 "
60 " Wheat, broadcast	1 1/2 to 2 bus.
60 " Wheat, in drills	1 1/2 to 2 "
56 " Rye, broadcast	1 "
32 " Oats, broadcast	2 to 2 1/2 "
48 " Sorghum, drills	4 qts.
56 " Sorghum, broadcast	8 "
56 " Flax, for seed	1 bus.
56 " Flax, for fibre	2 to 3 "

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

Weight per Bushel.	Pounds per Acre.
56 lbs. Field Corn, in hills	8 qts.
56 " Corn, for selling	1 to 2 bus.
60 " Vetches, broadcast	2 to 3 "
48 " Barley, broadcast	2 "
" Broom Corn, in hills	6 to 8 qts.
48 " Buckwheat, broadcast	1 bus.
" Teosinte, in hills	1 to 3 lbs.

**VEGETABLE SEED TABLET**

**THE QUANTITY OF SEED USUALLY SOWN TO AN ACRE.**

Asparagus	5 lbs.
Beans, dwarf in drills	1 to 1 1/2 "
Beans, pole, in hills	8 to 10 qts.
Beet, in drills	4 to 6 lbs.
Cabbage, in beds, to transplant	1 1/2 lb.
Carrot, in drills	2 to 3 lbs.
Celery, to transplant	1/2 qts.
Corn, in hills (sugar)	3 lbs.
Kale	4 to 6 lbs.
Melon, musk	1 1/2 to 2 "
Melon, water	3 to 3 lbs.
Mustard, broadcast	12 to 16 lbs.
Mangelwurzel	4 to 6 lbs.
Onions, in drills to make large onions	6 to 8 "
Onion Seeds, for small sets	40 to 60 "
Parsnip, in drills	4 to 6 "
Peas, early, in drills	1 bus.
Peas, Marrowfat, in drills	2 to 3 "
Peas, broadcast	1 1/2 "
Potato, cut tubers, in drills	8 "
Radish, in drills	6 to 8 lbs.
Radish, broadcast	10 "
Salsify, in drills	6 to 8 "
Spinach, in drills	12 to 15 "
Squash, bush variety, in hills	4 to 6 "
Squash, running varieties in hills	3 to 4 "
Turnip, in drills	1 lb.
Turnip, broadcast	2 to 3 lbs.
Tomato, to transplant	1 1/2 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 130 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
Cauliflr	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

# TO OUR FRIENDS AND PATRONS

It has been always our aim and object to keep in the vanguard of the improvements of the age. To do this we have added a number of new lines, so as to be in a position to cater to the desires of the farmers and planters everywhere. Thus it will be readily recognized, by every merchant and consumer, the advantage to be derived, not only from a large stock, but one of such great variety.

During the great fire of February 7 a great many of our catalogues and electrotypes were destroyed, thus precluding the possibility of furnishing all of our customers with a copy, but we arose to the importance of the occasion by extensive advertising, and thereby in a measure bridged over the difficulty.

This catalogue is free to everyone who sends us his name and address plainly written.

Thanking you for past patronage, and soliciting your further valued demands, which shall be given our usual prompt and careful attention, we remain,

Very respectfully,

**GRIFFITH & TURNER CO.,**

205, 207, 209, 213 & 215 N. Paca St., Baltimore, Md., U. S. A.

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# GRIFFITH & TURNER CO.'S

SELECTED LIST OF

## TESTED SEEDS For 1905.

**O**UR SEEDS are the BEST that can be obtained anywhere, because we are as careful in our selection as it is possible for anyone 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.

We do not advertise "cheap seeds," because the best seeds cannot be put in competition with "cheap seeds," but we sell as low as any of the other reputable houses in the country. 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.

### READ THE FOLLOWING AND BE GUIDED.

Your seeds I purchased from you this year were extra good, scarcely any failing to grow. I have recommended your house to a number of my neighbors, and my catalogue has been traveling around quite a good bit by neighbors wishing to order seeds. Please fill the enclosed order at once, and oblige

THIS FROM OHIO.

MRS. ALICE ZIMMERMAN.

I have purchased seeds from many seedsmen, and can say that your seeds give the best satisfaction of any I have ever planted.

O. E. WILDER, Ohio.

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. Etc.

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 in 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 to 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 ASPARAGUS

This Asparagus, said to have originated in South Carolina, is now quite extensively grown by Southern gardeners for New York and Philadelphia markets, where it sells at very high prices, owing to its mammoth size and regularity. An average bunch of 15 shoots will measure 13 to 14 inches in circumference. For several seasons this Asparagus has reached Northern markets 10 days ahead of all other varieties, and sold at fabulous prices. Pkt., 5c. Oz., 10c. ¼ lb., 20c. Lb., 50c. 5 lbs., \$2.00.

CONOVER'S COLOSSAL.—The old and well-known variety. Pkt., 5c. Oz., 10c. ¼ lb., 15c. Lb., 40c. 5 lbs., \$1.50.

### 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 kalmite 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.
BARR'S MAMMOTH.....	\$1.00	\$4.50
COLOSSAL (GREEN).....	.75	4.00
PALMETTO (GREEN).....	.75	4.00
MAMMOTH WHITE.....	1.00	5.00

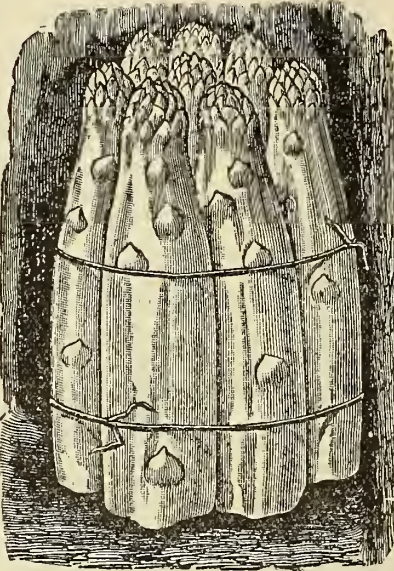
Extra size roots, 50c. per 1000 additional to above prices, by express, not prepaid.

## 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. Packet, 10c. Ounce, 30c.

**JERUSALEM.**—The tubers roasted or boiled, served with butter, salt and pepper, makes a dish some think superior to potatoes. They are most excellent feed for cows, and will cause an increase in quantity and quality of milk. Peck, \$1.00. Bushel, \$2.50.

### Mammoth White Asparagus.



In addition to the marvelous advantage of its pure white color, the Columbian Mammoth White Asparagus is even more robust and vigorous in habit and throws larger shoots, and fully as many of them, as the Conover's Colossal.

When we add to these the immense advantage of its needing no earthing up in order to furnish the white shoots so much sought after, we think it evident that it is superior to any sort now in cultivation, and that no Asparagus grower can afford to plant seed of any other kind. Market gardeners, growers for canners and amateurs should give this great acquisition a thorough trial. Pkt., 5c. Oz., 10c. ¼ lb., 20c. Lb., 60c.

**BARR'S MAMMOTH** This splendid variety, highly recommended for its many good qualities, is very productive and about 10 days earlier than Conover's Colossal. The stalks are very large, and retain their thickness completely up to the top of the shoots; very tender and succulent; of delicious flavor; grow very quickly; light in color. Pkt., 5c. Oz., 10c. ¼ lb., 15c. Lb., 50c. 5 lbs., \$2.00.

MAMMOTH WHITE.



ASPARAGUS BUNCHER.

**BEST ASPARAGUS BUNCHER.**—

\$1.50.

**ASPARAGUS KNIVES.**—30c. By mail, 40c.



ASPARAGUS KNIFE.

# BEANS.

## DWARF BUSH OR SNAP.

1 quart will plant 100 feet of drill.

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

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 2 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.



WARDWELL'S KIDNEY WAX.

## DWARF WAX PODDED.

### 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., 20c. Qt., 35c. Peck, \$2.25. Bus., \$8.00.

**JONES' WHITE SEED STRINGLESS ROUND POD WAX BEAN.**—Nice bush type, strong growth, rustproof on all soils and in the most unfavorable seasons. It is nearly a week earlier than any strain of Black Wax. Pods long, perfectly round and very solid. Can be planted later in the season than any other Wax Bean with a certainty of a crop. Perfectly stringless at all stages of growth, retains its brittleness and fine table quality when nearly matured. When ripe, seeds are white, medium round and plump, and will grade as No. 1 Medium or Small Marrows. Pt., 20c. Qt., 35c.

**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. Peck, \$2.00. Bus., \$7.50.

**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. Peck, \$2.00. Bus., \$7.00.

**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. Peck, \$2.00. Bus., \$7.25.

**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., 25c. Peck, \$1.75. Bus., \$6.50.

**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. Peck \$2.00. Bus. \$7.00.

**DWARF PROLIFIC BLACK WAX.**—Yellow pod, a very superior snap short, ripening among the first earlies, and having the best characteristics. Very tender. Pt. 15c. Qt. 30c. Peck \$2. Bus. \$7.50.



DWARF PROLIFIC BLACK WAX.

## DWARF GREEN PODDED.

**EARLIEST MARKET.**—This is well named, being the earliest bean in existence, and therefore very profitable to the market gardener, and desirable to the private gardener as well. The pods are long, broad, green and very showy, reaching maturity in 30 days from germination, and the habit of vine very productive. Pt., 20c. Qt., 35c. Peck, \$2.00. Bus., \$7.00.

**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., 20c. Qt., 35c. Peck, \$1.75. Bus., \$6.50.

**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., 25c. Peck, \$1.35. Bus., \$4.75.

**REFUGEE, OR 1000 TO 1.**—A medium to late variety, very productive and largely grown for pickling; handsome and tender pods. Pt., 15c. Qt., 25c. Peck, \$1.35. Bus., \$4.75.

**EARLY MOHAWK.**—Pt., 15c. Qt., 25c. Peck, \$1.25. Bus., \$4.50.

**DWARF HORTICULTURAL (Cherry).**—A 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. 25c. Peck \$1.35. Bus. \$4.75.

**BEST OF ALL.**—One of the most valuable green podded sorts for family or market use. The pods are six inches long, very fleshy, succulent, stringless, and of rich flavor; are produced early and abundantly. Qt. 25c. Peck \$1.35. Bushel \$4.75.

**LONG YELLOW 6 WEEKS.**—Very early, hardy bean. Pt. 15c. Qt. 25c. Peck \$1.25. Bushel \$4.50.



**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., 25c. Peck, \$1.35. Bus., \$4.75.

**EARLY RED VALENTINE.**—Pt., 15c. Qt., 25c. Peck, \$1.25. Bus., \$4.50.

**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., 15c. Qt., 25c. Peck, \$1.75. Bus., \$7.00.

**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., 25c. Peck, \$1.75. Bus., \$7.00.

**WHITE MARROWFAT.**—Extensively grown for sale as a dry bean for winter use. Qt., 20c. Peck, \$1.10. Bus., \$4.00.

**WHITE NAVY, OR SMALL PEA BEAN.**—A well-known variety for field culture, very prolific. Qt., 20c. Peck, \$1.10. Bus., \$3.50.

THE BUSH LIMA BEANS ARE RAPIDLY GAINING FRIENDS AND HAVE EVIDENTLY COME TO STAY.



BURPEE'S BUSH LIMA.

**BURPEE'S QUARTER CENTURY BUSH LIMA.**—A strain of the above, but an improvement. About 10 days earlier. Pint, 20c. Quart, 35c. Peck, \$2.50.

## POLE LIMA BEANS.

**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. Pint, 15c. Quart, 30c. Peck, \$1.75. Bushel, \$6.50.

**EXTRA EARLY JERSEY LIMA.**—This variety is 2 weeks earlier than other sorts; the pods are large and numerous, making it a very profitable sort to grow. Pint, 15c. Quart, 25c. Peck, \$1.65. Bushel, \$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. Pint, 15c. Quart, 25c. Peck, \$1.65. Bushel, \$6.00.

**EXTRA LARGE 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. Pint, 15c. Quart, 30c. Peck, \$1.75. Bushel, \$6.50.

**DREER'S IMPROVED, OR CHALLENGE POLE LIMA.**—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. Pint, 15c. Quart, 25c. Peck, \$1.75. Bushel, \$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. Pint, 15c. Quart, 25c. Peck, \$1.65. Bushel, \$6.00.

**LARGE WHITE LIMA.**—One of the best of the pole beans, either green or dry. Pint, 15c. Quart, 25c. Peck, \$1.65. Bushel, \$6.00.

**CAROLINA, OR SIEVA.**—A seedling variety of Large White Lima, with small pods, usually about 2 inches long. A little earlier and harder. Pint, 15c. Quart, 25c. Peck, \$1.50. Bushel, \$5.50.

## POLE BEANS.

Set the poles 3 or 4 feet apart and plant 6 to 8 beans, with the eyes downward, around each pole, tinning to 4 healthy plants when they are up. They require the same soil and treatment as the dwarf varieties with the exception that they care stronger soil and do best in a sheltered location.

**GOLDEN CARMINE WAX POLE.**—In this new strain we have a wonderfully robust grower, a week to ten days earlier than Horticultural Pole. In comparison, the pods are stringless, bright, golden color when very young. As the pods approach full size, they are mottled and streaked with an unusually bright carmine color, or the bright golden. This, together with its productiveness, will make it the most desirable strain of this well-known and popular bean. Pint, 25c. Quart, 40c. ½ Peck, \$1.50. Peck, \$2.50.

**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. It has been grown in Maryland to a very limited extent for a few years, and those who have grown it once want it again. Pint, 15c. Quart, 30c. Peck, \$1.75. Bushel, \$6.50.

**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. Pint, 15c. Quart, 25c. Peck, \$1.65. Bushel, \$6.00.

**KENTUCKY WONDER, OR OLD HOMESTEAD.**—A very prolific sort, bearing its pods in large clusters; pods green, often reaching 9 or 10 inches in length, nearly round when young, and very crisp. Pint, 20c. Quart, 30c. Peck, \$1.65. Bushel, \$6.00.

**SPECKLED HORTICULTURAL, OR WREN'S EGG.**—An old favorite for both snap-shorts and dry beans. Pint, 15c. Quart, 25c. Peck, \$1.50. Bushel, \$5.50.

**WHITE CHERRY.**—Great favorite. Pint, 15c. Quart, 25c. Peck, \$1.50. Bushel, \$5.50.

**CREASE-BACK, OR FAT HORSE.**—A well-known and highly esteemed Southern variety. Very productive; forms full, round pods; fleshy; stringless and distinctly creased along its back; hence its name; especially valuable for its extreme earliness and habit of perfecting all pods at the same time. Pint, 15c. Quart, 25c. Peck, \$1.50. Bushel, \$5.00.

**SOUTHERN PROLIFIC.**—A splendid, vigorous and productive variety. Pods in clusters, succulent and delicious; matures early; continues bearing until frost. Pint, 15c. Quart, 25c. Peck, \$1.50. Bushel, \$5.00.

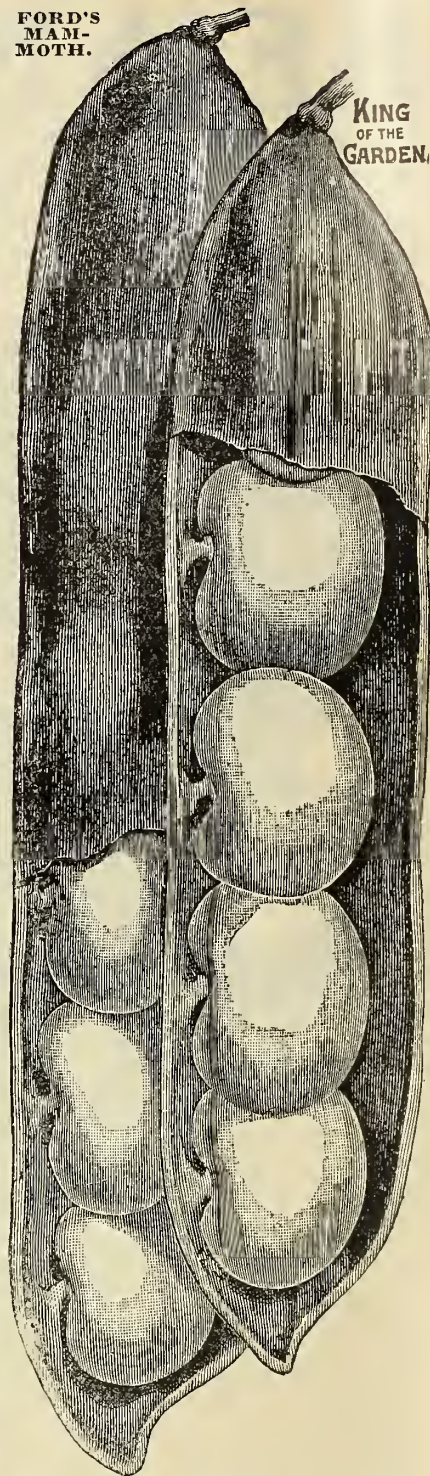
**SPECKLED CUT-SHORT, OR CORN-HILL.**—An old variety, very popular for planting among corn, and will give a good crop, without the use of poles; vines medium, with dark-colored, smooth leaves; pods short, cylindrical and tender. Pint, 15c. Quart, 25c. Peck, \$1.50. Bushel, \$5.00.

**DUTCH CASE KNIFE.**—Vines moderately vigorous, climbing well; may be used for a corn-hill bean. Leaves large, crumpled; blossoms white; pods long, flat, irregular, green, but becoming cream white; beans broad, kidney-shaped, flat, clear white; of excellent quality, green or dry. Pint, 15c. Quart, 25c. Peck, \$1.50. Bushel, \$5.00.

WHEN BEANS ARE TO BE SENT BY MAIL, ADD FOR POSTAGE, 8c. PER PINT, 15c. PER QUART.

## BUSH LIMA BEANS.

FORD'S  
MAM-  
MOTH.



KING  
OF THE  
GARDEN.

### DREER'S BUSH LIMA.

A dwarf variety of the Dreer's Improved Lima, which has been fixed in its character of a bush bean; it is very prolific, single plants often producing from 150 to 200 pods. Equal in quality and tenderness to Dreer's Pole Lima.

Pint.....	\$0.15
Quart.....	.30
Peck.....	1.65
Bushel.....	6.00

### HENDERSON'S DWARF 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.

Pint.....	\$0.15
Quart.....	.30
Peck.....	1.65
Bushel.....	6.00

### BURPEE'S BUSH LIMA.

The 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, from 2 to 3 feet in diameter. It is an immense yielder, each bush bearing from 50 to 200 of the handsome large pods, well filled. Pints, 15c. Quart, 25c. Peck, \$1.65. Bushel, \$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.

### 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., 10c. ¼ lb., 15c. Lb., 50c.

**SWISS CHARD.**—Oz., 10c. Lb., 40c.  
**BASSANO, or EXTRA EARLY TURNIP.**—Flesh white and rose; very sweet and tender. Pkt., 5c. Oz., 10c. ¼ lb., 15c. ½ lb., 20c. Lb., 35c.

**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., 10c. ¼ lb., 15c. Lb., 40c.

**LARGE LONG BLOOD.**—A large and desirable late variety of deep-red color. Pkt., 5c. Oz., 10c. ¼ lb., 15c. Lb., 40c.

**BALTIMORE 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 specially desirable for hotheads on account of its small top and close-growing habit. Pkt., 5c. Oz., 10c. ¼ lb., 15c. Lb., 50c.

### 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., 10c. ¼ lb., 15c. Lb., 40c.

**EDMUND'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., 10c. ¼ lb., 15c. Lb., 40c.

**CROSBY'S IMPROVED EGYPTIAN BEET.**  
A very superior strain of the well-known Egyptian, carefully selected, deep-blood color, quick, rapid growth. The shape is very desirable, as shown in the accompanying photograph, being not quite so flat as the ordinary Egyptian, nor so round as the Eclipse. It may be sown outside as late as July. Pkt., 5c. Oz., 10c. ¼ lb., 20c. Lb., 50c.

### ECLIPSE BEET.



This extra early Beet is remarkable for its fine quality and rapid growth; is of deep red color and handsomeshape.

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 10c. 1-4 lb., 15c. Lb., 40c.



CROSBY'S IMPROVED EGYPTIAN.

### 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. Packets, 5c. and 10c. Ounce, 20c. 1-4 lb., 45c. Lb., \$1.60.



BRUSSELS SPROUTS.

### 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.

**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. ¼ lb., 10c. Lb., 25c. 5 lbs., \$1.00.

**WHITE SUGAR BEET.**—A large-growing sort, and used for feeding stock. ¼ lb., 10c. Lb., 25c. 5 lbs., \$1.00.

**LONG RED MANGOLD WURZEL.**—The well-known, large, long variety; grows well out of ground. Color light red. Very productive. ¼ lb., 10c. Lb., 25c. 5 lbs., \$1.00.

**GOLDEN TANKARD MANGOLD.**—The best type of Mangold—small top, smooth, rich skin, broad shoulders, very solid-fleshed, golden-stemmed, heavy producer. ¼ lb., 10c. Lb., 25c. 5 lbs., \$1.00.



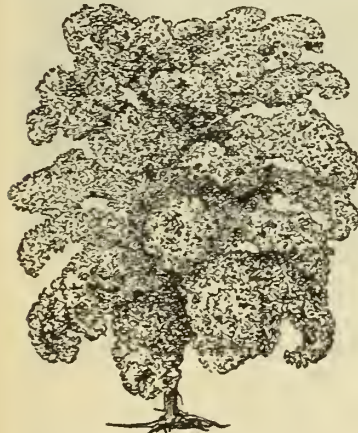
## BROCCOLI

(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. Pkt., 10c. Oz., 35c.  
**LARGE EARLY WHITE.**—Head white, like Cauliflower; the best. Pkt., 10c. Oz., 35c.



## 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.

Pkts., 5c. and 10c. Oz., 15c. ¼ lb., 25c. Lb., 75c.

ONE OUNCE OF SEED  
TO 100 YARDS OF ROW.

## CABBAGE.

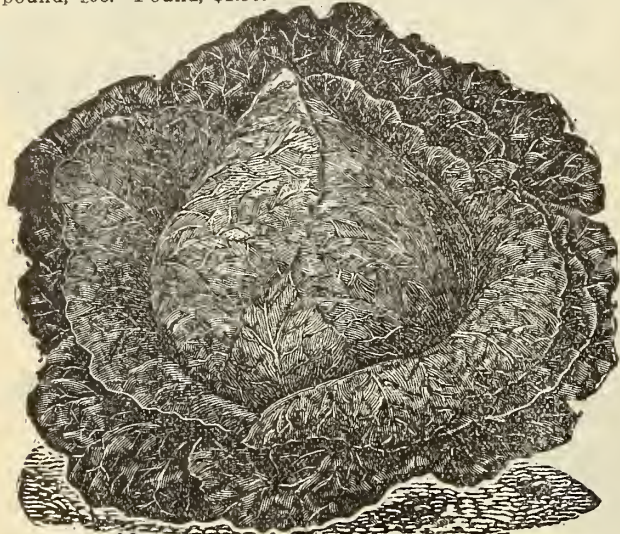
German, Kopfkohl.

**C**ABBAGE must have good land; plow deep and fertilize liberally, as it is a strong feeder. The early sorts bear planting from 18 inches to 2 feet in the rows; the larger varieties from 2 to 3 feet in the rows, with the rows from 3 to 3½ feet apart, according 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 hot-bed 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. 1-4 lb., 60c. Lb., \$2.00.

**EXTRA EARLY EXPRESS.**—Heads are comparatively thicker and less pointed than Jersey Wakefield and slightly later. Head softer, but stands shipping better. Pkts., 5c. and 10c. Oz., 15c. ¼ lb., 40c. Lb., \$1.50.

**EARLY WINNINGSTADT.**—Head large, cone-shaped and solid. An old and popular sort. Pkts., 5c. and 10c. Ounce, 15c. ¼ pound, 40c. Pound, \$1.50.



LARGE OR CHARLESTON WAKEFIELD.

### CHARLESTON, OR LARGE 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. Ounce, 20c. ¼ pound, 60c. Pound, \$2.25.

### Early Dwarf Flat Dutch.

American Grown.

An old Standard variety which stands the sun and produces fine large heads, coming in soon after the Wakefield. Packets, 5c. and 10c. Ounce, 15c. ¼ pound, 40c. Pound, \$1.50.

### Henderson's Early Spring.

An extra early round-headed cabbage of the early summer type. Packet, 10c. Ounce, 25c. ¼ pound, 75c. Pound, \$2.50.

**LARGE EARLY YORK.**—American Grown.—One of the earliest. Forms a medium size, pointed head. Packets, 5c. and 10c. Ounce, 15c. ¼ pound, 40c. Pound, \$1.25.

### 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

EARLY JERSEY WAKEFIELD.

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. Packets, 5c. and 10c. Ounce, 20c. ¼ pound, 60c. Pound, \$2.00.

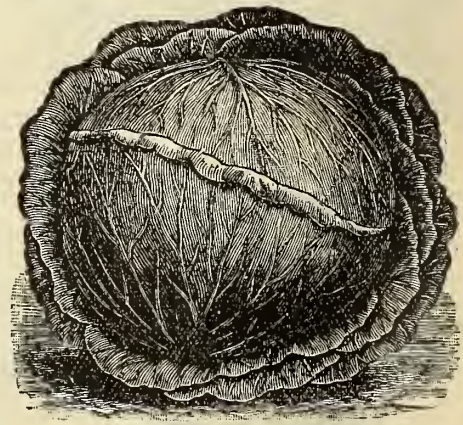


EARLY SUMMER CABBAGE.

### LARGE EARLY SUMMER.

American Grown.

One of the earliest of the summer varieties. Heads large and flat; short stemmed, few outside leaves, uniform in character, and about ten days later than the Wakefield. It is very popular with the truckers. Packets, 5c. and 10c. Ounce, 20c. ¼ pound, 60c. Pound, \$1.75.



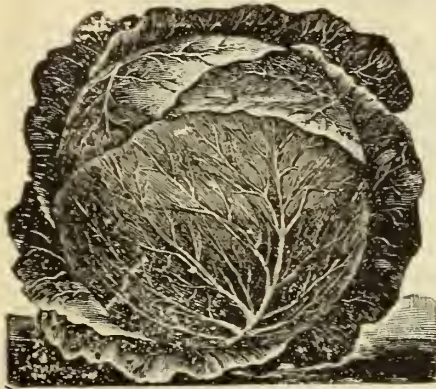
EARLY "ALLHEAD."

### All-Head Early Cabbage.

American Grown.

This is the largest of all Cabbages, fully one-third larger than the Early Summer, therefore more profitable to the market gardener. It is the nearest approach to a thoroughbred Cabbage of any variety, both in size and uniform development. As the Allhead 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. ¼ lb., 60c. Lb., \$2.00.

## CABBAGE—Continued.



**NEW EARLY CABBAGE.**

**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.

**THE SUCCESSION CABBAGE.**—American grown. Is one of the most valuable contributions to horticulture. It would be classed as a second 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. Packets, 5c. and 10c. Ounce, 20c. ¼ lb., 60c. Lb., \$2.00.

**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. ¼ lb., 50c. Lb., \$1.75.

**SUREHEAD.**—Am. grown. This popular cabbage is rightfully named Surehead, 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. ¼ lb., 60c. Lb., \$2.00.

**ALL SEASONS.**—Am. 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. ¼ lb., 50c. Lb., \$1.75.

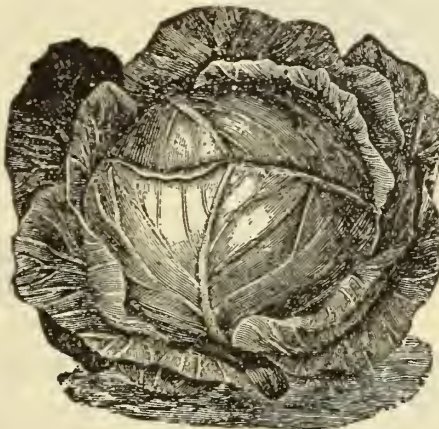


**DANISH BALL HEAD CABBAGE.**

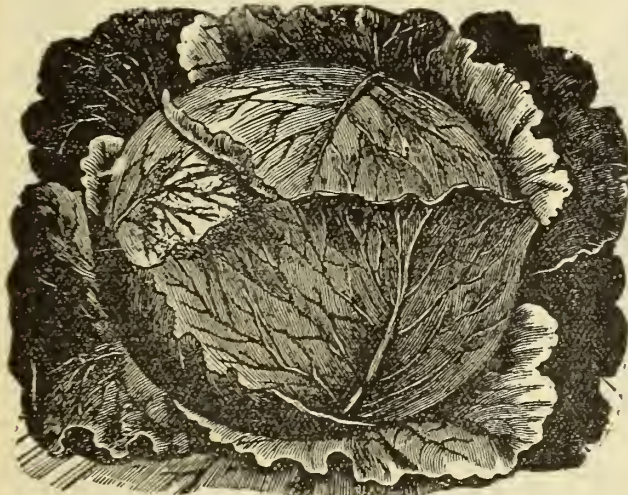
**DANISH BALL HEAD.**—This most excellent variety of Cabbage, coming from Denmark, has grown very rapidly into favor with both market and private gardeners. It is a large, round, solid heading, medium early variety; a very sure header, having few loose leaves, consequently can be planted very close together. Although a medium early, can also be grown for a fall and winter crop, being one of the best keepers. Very popular in the Philadelphia, New York and Boston markets. Pkts., 5c. and 10c. Oz., 20c. ¼ lb., 65c. Lb., \$2.25.

**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. ¼ lb., 50c. Lb., \$1.75.



**SUCCESSION CABBAGE.**



**BOSS FLAT DUTCH—LATE CABBAGE.**



**PREMIUM LARGE FLAT DUTCH—LATE CABBAGE.**

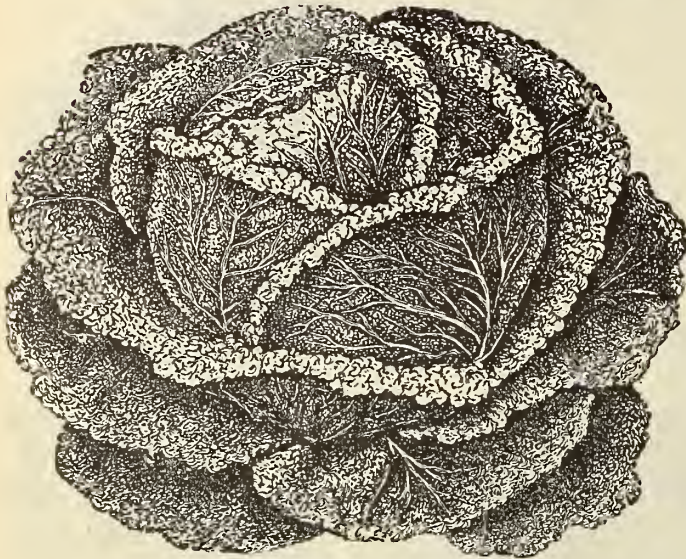
### LATE OR AUTUMN CABBAGE.

**BOSS FLAT DUTCH CABBAGE.**—Am. 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., 15c. ¼ lb., 50c. Lb., \$1.75.

**PREMIUM LARGE LATE FLAT DUTCH CABBAGE.**—Am. 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., 15c. ¼ lb., 40c. Lb., \$1.50.

**SPECIAL PRICES TO GARDENERS AND FARMERS, IN LARGE QUANTITIES.**

**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.

Pkts., 5c. and 10c. Oz., 15c. 1-4 lb., 40c. Lb., \$1.50.

**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.

Pkts., 5c. and 10c. Oz., 15c. 1-4 lb., 50c. Lb., \$1.50.

**RED DUTCH.**—The head is large, round, solid and a deep red color, the best of the red cabbages.

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

**Perfection Drumhead Savoy.**

American Grown.

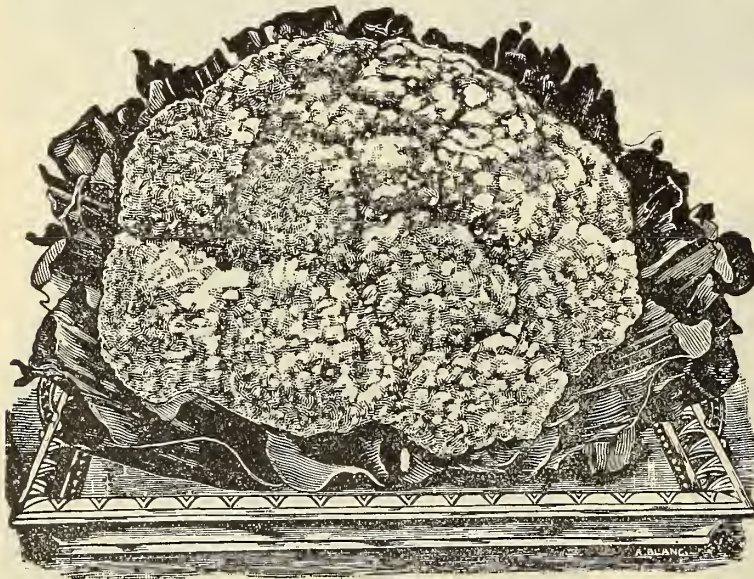
This is without any exception the finest stock of Savoy cabbage to be found anywhere. The heads are large and solid, the leaves beautifully curled, and in tenderness and flavor it is almost equal to cauliflower, while its keeping quality is first-class. To say that our market gardeners are pleased with 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.

Pkts., 5c. and 10c. Oz., 15c. 1-4 lb., 40c. Lb., \$1.50.

**Georgia Collards**—Called the Cabbage Collard on account of its closebunching growth. The plant produces centre leaves generally perfectly white, though sometimes dashed with pink. It is a very delicate vegetable and of the first quality. Packets, 5c. and 10c. 1-4 lb., 20c. Lb., 60c.

**G. & T. Co.'s Snowball Cauliflower.**

One Ounce of Seed will produce 2,000 Plants.



**M**ANY amateurs make the mistake of sowing the seed too early for late crop. It should not be sown before May, as when sown earlier they begin to head before the hot weather is over, and are a failure. Cauliflower can only be grown on rich, well-tilled and well-watered soil. The most delicious of all the cabbage family, and requiring the same culture and treatment, but being more delicate. The good culture and richness of the soil recommended for cabbage is absolutely necessary for the cauliflower. For early crop, sow in hot-bed or cold-frame in February or March. For late crop, sow and treat like late cabbage.

**Our 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.

Pkts., 25c. and 50c. 1-4 oz., 75c. Oz., \$2.00.

**SELECT EARLY DWARF ERFURT.**—Long the standard of highest excellence, and still holding its own with a great many people.

Pkts., 25c. and 50c. 1-4 oz., 50c. Oz., \$1.75.

**EARLY PARIS.**—An excellent sort for early or late use.

Pkt., 10c. Oz., 50c.



**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. ¼ lb., 15c. Lb., 35c. 5 lbs., \$1.50.

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. 1-4 lb., 20c. 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. 1-4 lb., \$1.00. Lb., \$3.25.

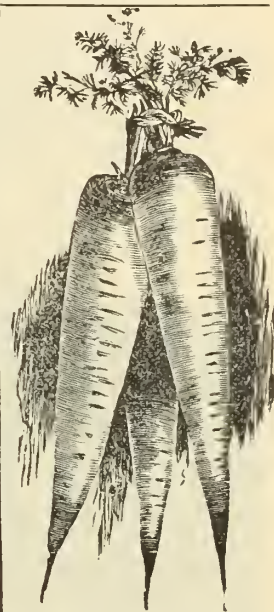
## G. & T. CO.'S CARROTS.

1 OZ. OF SEED TO 100 FEET OF ROW.

**C**ARROTS 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.

### 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. 1-4 lb., 20c. Lb., 60c.**

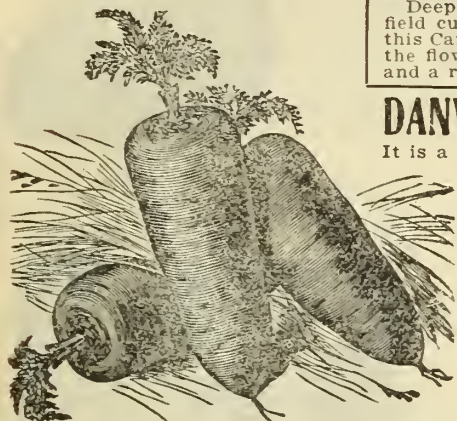


IMPROVED LONG ORANGE.

### DANVERS.

A decided acquisition of the half-long type, broad-shouldered, cylindrical, admirable in color, fixed in habit, a wonderful producer. It is a first-class Carrot for all soils.

**Pkt., 5c. Oz., 10c. 1-4 lb., 20c. Lb., 60c.**

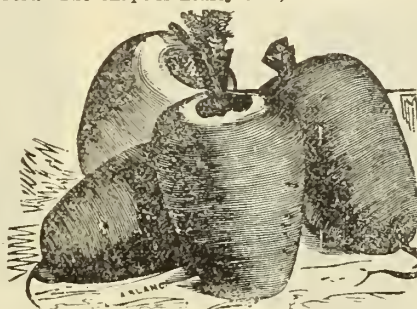


DANVERS.

### 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.

**Pkts., 5c. and 10c. 1-4 lb., 20c. Lb., 75c.**



GUERANDE, OR OX HEART.

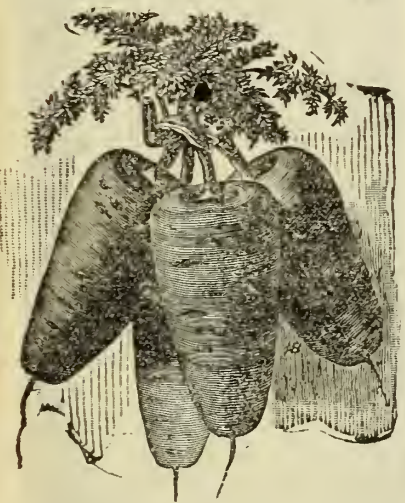
**EARLY SCARLET HORN.**—Blunt-rooted, early, good. Favorite sort for early crop.

**Pkt., 5c. Oz., 10c. 1-4 lb., 20c. Lb., 75c.**

### 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. 1-4 lb., 20c. Lb., 75c.**



CHANTENAY.

### WHITE SOLID.

A large standard sort. One of the best of the large growing sorts.

**Pkts., 5c. and 10c. Oz., 15c. ¼ lb., 40c. 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., 15c. ¼ lb., 40c. 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.

1 OZ. WILL PRODUCE 2000 PLANTS.

### PARIS GOLDEN CELERY.

(French Stock.)

**T**HIS 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, if, 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., 40c. ¼ lb., \$1.25. Lb., \$4.00.**

### GOLDEN SELF-BLANCHING CELERY.

(American Stock.)

This is a selection from the French stock grown here, and is a favorite sort with market gardeners, being very largely used.

**Pkts., 5c. and 10c. Oz., 30c. ¼ lb., 90c. Lb., \$3.00.**

### ROSE-RIBBED PARIS SELF-BLANCHING.

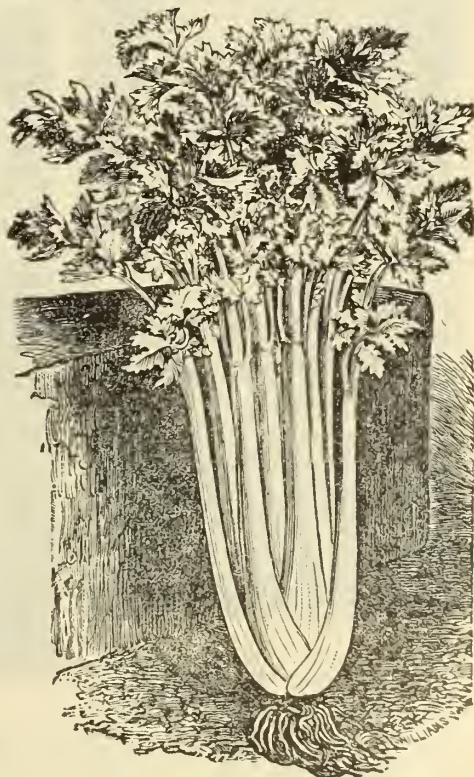
This is a sport of the Golden Self-Blanching, identical in habit, growth, early maturing, and as easily blanched. The stalks, however, are naturally quite heavily tinted with red, so that when blanched they show a distinct pink line in the ribs, contrasting finely with the rich golden yellow.

**Pkt., 10c. Oz., 30c. ¼ lb., 85c. Lb., \$3.00.**

### 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., 15c. ¼ lb., 40c. Lb., \$1.50.**



PARIS GOLDEN CELERY.

**CELERY.** German, Celerie.

CONTINUED.  
1 Oz. Will Produce 2000 Plants.

**PLANT SEED** in hot-bed 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 from time to time, taking care not to cover the top of the centre shoots.

**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. 1-4 lb., 60c. Lb., \$2.00.

**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.  
1-4 Lb., 50c.

**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 as a winter keeper, remaining, when properly trounced, in perfect condition away into the spring.

Pkt., 10c. Oz., 20c. 1-4 lb., 50c. Lb., \$1.50.



**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., 15c. ¼ lb., 40c. Lb., \$1.25.



**CELERIAC.**

OR TURNIP ROOTED CELERY.

NEW APPLE SHAPE.

Small foliage, large, round, and smooth.

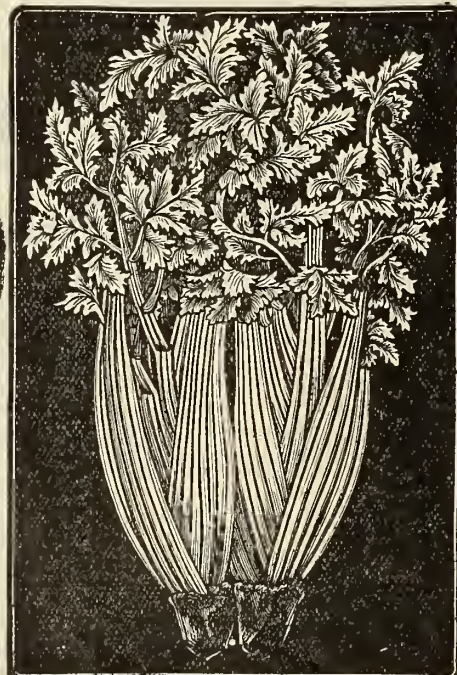
Pkt., 5c. and 10c.  
Oz., 15c.  
1-4 Lb., 40c.  
Lb., \$1.25.



LARGE SMOOTH PRAGUE.

LARGE SMOOTH PRAGUE.

The largest, smoothest and best of the Celeriacs. Pkts., 5c. and 10c.  
Oz., 15c. ¼ lb., 40c. Lb., \$1.50.



**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.



**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 fine, 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.

**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.

### FIRST EARLY VARIETIES.

**EXTRA EARLY BALTIMORE.**

The hardiest 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. Ear, 5c. Doz., 50c. Qt., 25c. 2 qts., 40c. Peck, \$1.00. Bus., \$3.50.

**G. & T. CO.'S NEW 60-DAY CORN.**—The largest extra early corn grown. As early as Extra Early Adams, but grows larger ears. Crop failed.

**EXTRA EARLY ADAMS.**—Ear, 5c. Doz., 40c. Qt., 20c. 2 qts., 35c. Peck, 90c. Bus., \$3.00.

**EARLY ADAMS.**—A favorite in the South. Ear, 5c. Doz., 40c. Qt., 20c. 2 qts., 35c. Peck, 90c. Bus., \$3.00.

**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. Doz., 35c. Qt., 20c. 2 qts., 35c. Peck, 75c.

**NINETY-DAY CORN (Red Cob).**—This is an elegant corn for truckers and market gardeners, as it is as good 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, 50c. Bus., \$1.50.

### MEDIUM EARLY VARIETIES.

**Sweet or Sugar.**

**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. Qt., 25c. Peck, \$1.50. Bus., \$5.00.

**CORY.**—An early variety red cob. Pt., 10c. Qt., 20c. Peck, \$1.25. Bus., \$4.25.

**FIRST OF ALL.**—A selection from the Cory, the ears about the same size as Cory, lighter in color and earlier. Pt., 15c. Qt., 25c. Peck, \$1.50. Bus., \$5.00.

**WHITE CORY.**—An early variety, with good-sized ears and large kernels. Qt., 20c. Peck, \$1.25. Bus., \$4.25.

**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., 10c. Qt., 20c. Peck, \$1.25. Bus., \$4.25.

**CROSBY'S EXTRA EARLY.**—An early market variety, very productive; ears rather short and rich, sugary flavor. Pt., 10c. Qt., 20c. Peck, \$1.25. Bus., \$4.25.

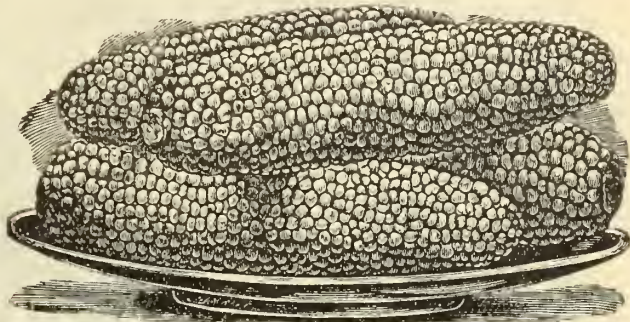
**EARLY MINNESOTA SUGAR.**—One of the first early among sugary corn. Qt., 20c. Peck, \$1.15. Bus., \$4.00.

**BLACK MEXICAN SUGAR.**—The black corn is especially rich in sugary qualities. Qt., 20c. Peck, \$1.25. Bus., \$4.25.

### MAIN CROP VARIETIES.—Continued.

**HICKOX.**—A very handsome and excellent variety of sugar corn; large, white grain and sweet. Ear, 5c. Doz., 40c. Qt., 20c. Peck, \$1.25. Bus., \$4.00.

**IMPROVED NE PLUS ULTA.**—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., 10c. Qt., 25c. Peck, \$1.25. Bus., \$4.00.



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., 10c. Qt., 25c. Peck, \$1.25. Bus., \$4.00.

**LATE MAMMOTH.**—The largest variety grown; very fine for market purposes. Ear, 5c. Doz., 40c. Pt., 10c. Qt., 20c. Peck, \$1.25. Bus., \$4.00.

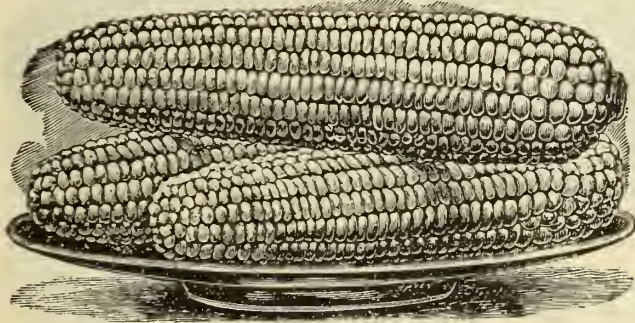
**EGYPTIAN, OR WASHINGTON MARKET.**—A large variety, somewhat resembling the Evergreen; flavor peculiarly rich and sweet, and of superior quality; fine for market. Ear, 5c. Doz., 40c. Pt., 10c. Qt., 20c. Peck, \$1.25. Bus., \$4.00.

**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., 10c. Qt., 20c. Peck, \$1.25. Bus., \$4.00.

**KENDALL'S EARLY GIANT.**—The largest early sweet corn known, and is very productive. Pt., 10c. Qt., 20c. Peck, \$1.25. Bus., \$4.00.

**SUGAR CORN.**—For fodder. Write for Prices.

### MAIN CROP VARIETIES.



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. Ear, 5c. Doz., 40c. Pt., 10c. Qt., 20c. Peck, \$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. Ear, 5c. Doz., 40c. Qt., 20c. Peck, \$1.15. Bus., \$4.00.



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. Peck, \$1.50. Bus., \$4.50.

December 18.

Gentlemen: The seeds I got of you the last two years were true to name—great vitality. I will place my order with you again this coming year. It gives me pleasure to write the above.

JOHN SCHAICK, Ohio.

Ferncliffe House, December 21.

I can recommend your goods highly, both in quality and being true to name.

J. R. CORNWELL.

All Prices Subject to Change Without Notice.

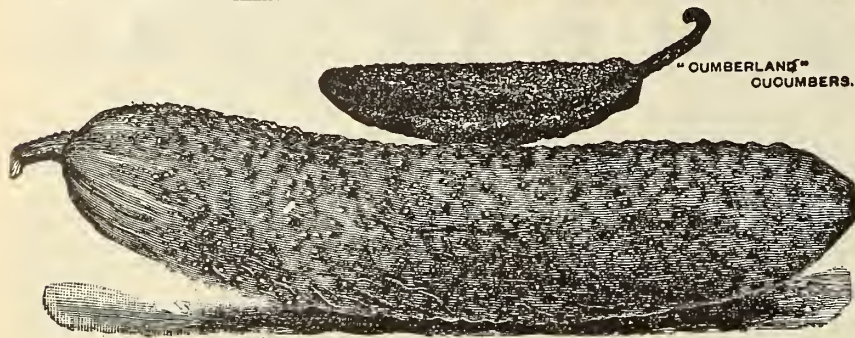
Truckers Write for Prices in Quantity.

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

## CUCUMBER.

German,  
Gurke.

Prices Subject to Change  
Without Notice on Ac-  
count of Short Crop.



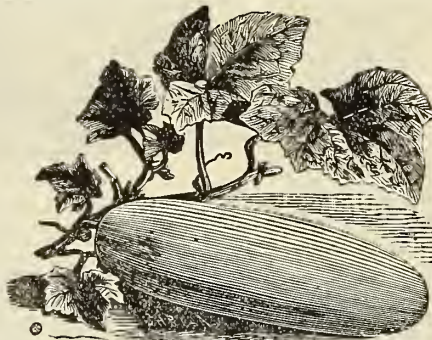
### CUMBERLAND.

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.

Packet, 5c. Ounce, 10c. 1-4 pound, 35c. Pound, \$1.00.

### WHITE WONDER CUCUMBER.

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. 1-4 lb., 25c. Lb., 75c.



**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. 1-4 lb., 25c. Lb., 75c.

**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. 1-4 lb., 25c. Lb., 75c.

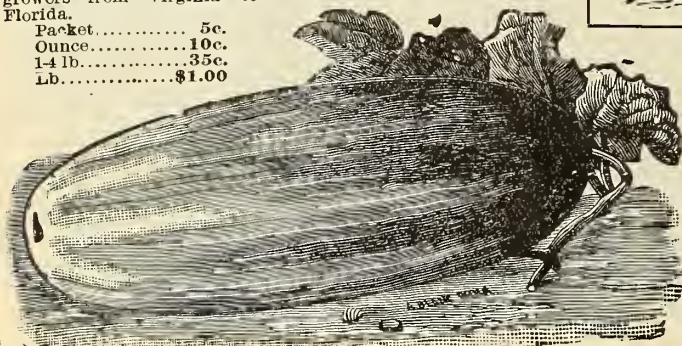
**ARLINGTON WHITE SPINE.**—A favorite extra early variety, of desirable size, handsome shape, dark-green color, holding its color longer than most others. Good shipper and sells well.

Pkt., 5c. Oz., 10c. 1-4 lb., 25c. Lb., 75c.

### 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.

Packet..... 5c.  
Ounce.....10c.  
1-4 lb.....35c.  
Lb.....\$1.00



**CULTURE.**  
For very early Cucumbers sow the first of April in a hot-bed 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 sorts. 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-slacked 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 LONG GREEN.

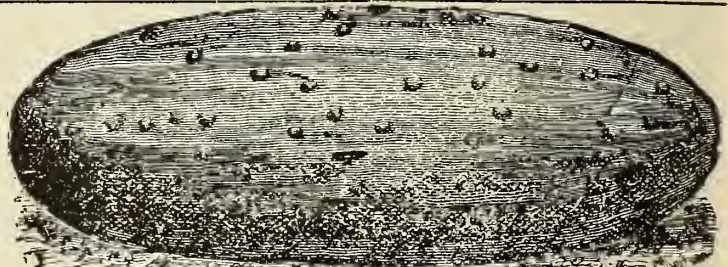
### IMPROVED LONG GREEN.

Has long been a favorite with growers; dark green, firm and crisp. Superior for pickles and for market. Pkt., 5c. Oz., 10c. 1-4 lb., 25c. Lb., 75c.

#### LONG GREEN TURKEY.

A very showy and excellent sort.

Pkt., 5c. Oz., 10c. 1-4 lb., 40c. Lb., \$1.15.



JERSEY PICKLE.

### 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. 1-4 lb., 25c. Lb., 75c.

### 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. 1-4 lb., 25c. Lb., 75c.

### GHERKIN, OR BURR.

Used for Pickles Only.  
Pkt., 5c. Oz., 10c. 1-4 lb., 35c. Lb., \$1.00.



**CUCUMBER**  
CONTINUED.



**EVER-BEARING CUCUMBERS.**

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.

Pkts., 5c. and 10c. Oz., 20c. 1-4 lb., 40c. Lb., \$1.25.

**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., 20c. 1-4 lb., 40c. Lb., \$1.25.

**EARLY CLUSTER.**

A short, prickly variety, bearing in clusters near the root. A good bearer.

Pkts., 5c. and 10c. Oz., 20c. 1-4 lb., 40c. Lb., \$1.25.

**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., 20c.

**ENGLISH FORCING CUCUMBER.**

Should be grown in hot-beds where the temperature does not fall below 65 degrees at night. **TELEGRAPH** is the best. 25c. Packet.

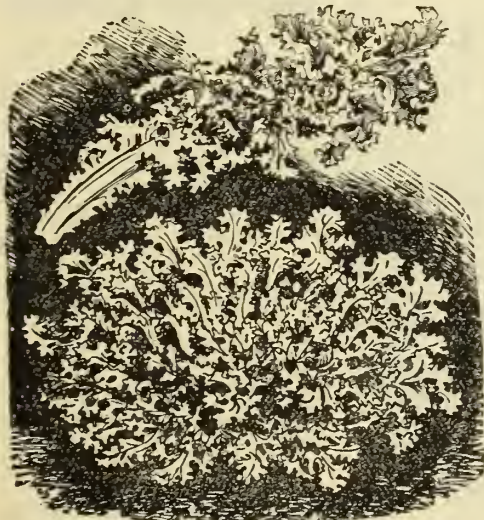
German. **EGG PLANT.** Eierpflanze

**CULTURE.**—Sow the seed in hot-beds 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 1,000 plants.**



**BALTIMORE EGG PLANT.**

This is decidedly the best and most profitable Egg Plant in cultivation. It is large, thornless, of beautiful shape and handsome purple color. We have never seen finer specimens of Egg Plant than those grown from our seed. When inspecting the field of Egg Plants growing for seed we were surprised at the regular size and uniform, handsome color of the fruit all over the field. Pkt., 10c. Oz., 30c. 1-4 lb., 90c. Lb., \$3.00.



GREEN CURLED ENDIVE.

German. **ENDIVE.** 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 fifteen inches apart, and thin plants to six or eight inches in the row. To blanch the leaves, gather them carefully together when perfectly dry, and tie 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., 40c. Lb., \$1.25.

GRIFFITH & TURNER CO.:

Gentlemen—While on a visit to Baltimore I got my husband to purchase a large quantity of your seeds. They are the best I ever saw, and succeeded splendidly with my garden, and had the greatest abundance of vegetables.

MRS. EMMA CLOUD,  
Kansas.

This from Ohio.

I have purchased seeds from many seedsmen, and can say that your seeds gave the best satisfaction of any I have ever planted.

O. E. WILDER.

1 Oz., of Seed Will Sow a Drill  
of About 200 Feet.

# KALE.

German,  
Blatter-Kohl.

**T**HE 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. 1-4 Lb., 15c. Lb., 30c.

**NOROLK.**—A variety used by the truckers of Norfolk for shipment North. Light green color and leaves much curled.

Packet..... 5c.  
Ounce..... 10c.  
1-4 Lb..... 25c.  
Lb..... 75c.

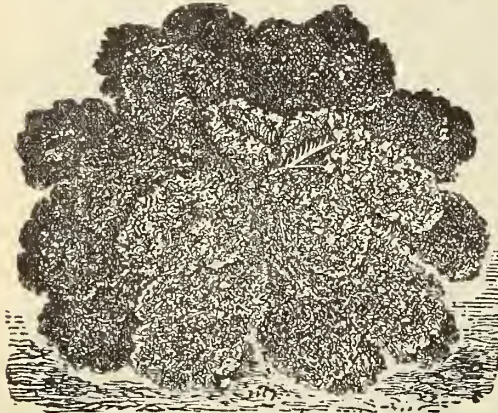


DWARF GREEN GERMAN KALE.

## 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 other variety.

Pkt., 5c. 1-4 lb., 15c. Lb., 30c.



EXTRA CURLED NEW AMERICAN KALE.

## 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.

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

**IMPROVED KOHLRABI.**—Pkts.,  
5c. and 10c. Oz., 10c. 1-4 lb., 30c.  
1-2 lb., 50c. Lb., \$1.00.



## LEEK.

German,  
Lauch.

1 OZ. OF SEED TO 150 FEET OF ROW.

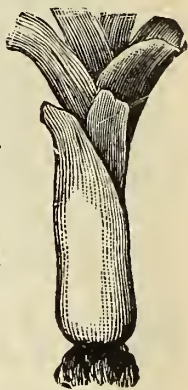
**S**ELECT good Onion soil, manure liberally, plant in April in drills 6 to 8 inches deep, and 18 inches apart, and thin to 9 inches apart in the drill. Gradually draw the earth around the plants until the drills are filled level with the surface. Draw for use in October. To be used in soups or boiled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

**EXTRA LARGE MAMMOTH.**—A large and strong plant; hardy. The best variety for general culture.

Pkt., 5c. Oz., 10c. 1-4 lb., 30c. Lb., \$1.00.

**MUSSELBURGH.**—Oz., 15c. 1-4 lb., 35c. Lb., \$1.25.

**LARGE ROUEN.**—Pkts., 5c. and 10c. Oz., 20c. 1-4 lb., 40c. Lb., \$1.25.



# LETTUCE.

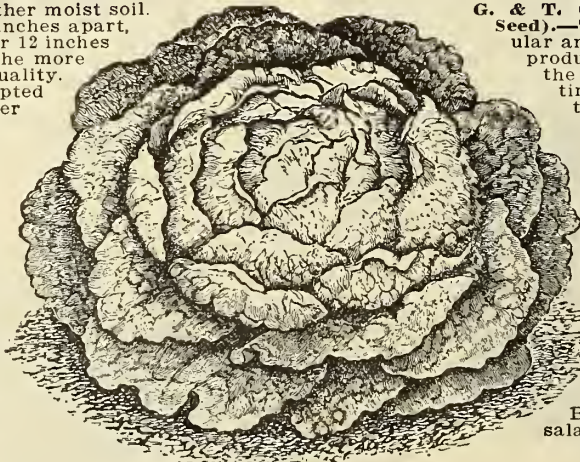
German, Lattich.

**L**ETTUCE 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 two years ago, 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. 1-4 lb., 50c.  
Lb., \$1.50.



**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., 15c.  
1-4 lb., 40c. Lb., \$1.25.

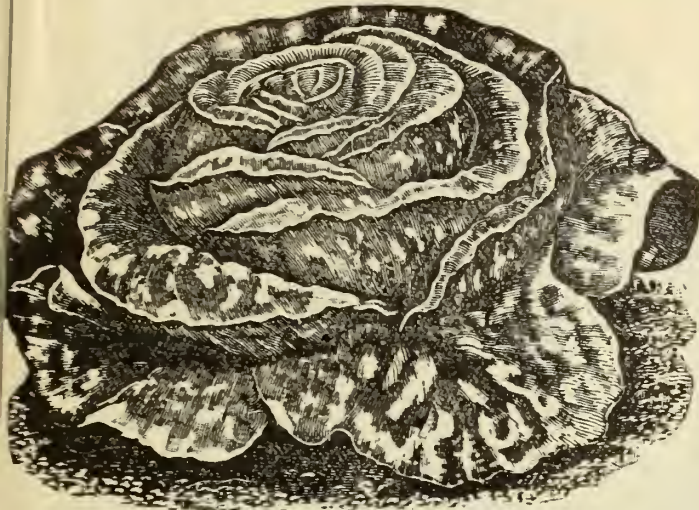
**EARLY WHITE CABBAGE, OR BUTTER.**—A broad-leaved, vigorous-heading sort; white, showy and desirable. Pkt., 5c. Oz., 15c. 1-4 lb., 30c. Lb., \$1.00.

**EARLY CURLED SIMPSON.**—Black seed. Very early; excellent for salads; forms a compact mass of leaves.

Pkts., 5c. and 10c. Oz., 15c.  
1-4 lb., 30c. Lb., \$1.00.

**TENNIS BALL.**—Black seed. A favorite forcing variety; a very hard head. Pkts., 5c. and 10c. Oz., 15c. 1-4 lb., 30c. Lb. \$1.

# LETTUCE—Continued.



BALTIMORE CABBAGE LETTUCE.

## 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. 1-4 lb., 50c. Lb., \$1.50.

### 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., 15c. ¼ lb., 30c. Lb., \$1.00.

### CREAM BUTTER LETTUCE. (Black Seed.)

This is fairly well known, and has given good results with the growers.

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

**HANSON.**—A variation of the Indiana, forming a half-closed head.

Pkts., 5c. and 10c. Oz., 15c. ¼ lb., 30c. Lb., \$1.00.

### SALAMANDER (Black Seed).

An excellent sort for spring or summer use; forms good-sized heads of excellent quality.

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



BIG BOSTON.

**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.

Pkt., 10c. Oz., 20c. 1-4 lb., 50c. Lb., \$1.50.

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., 15c. 1-4 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., 15c. 1-4 lb., 40c. Lb., \$1.25.

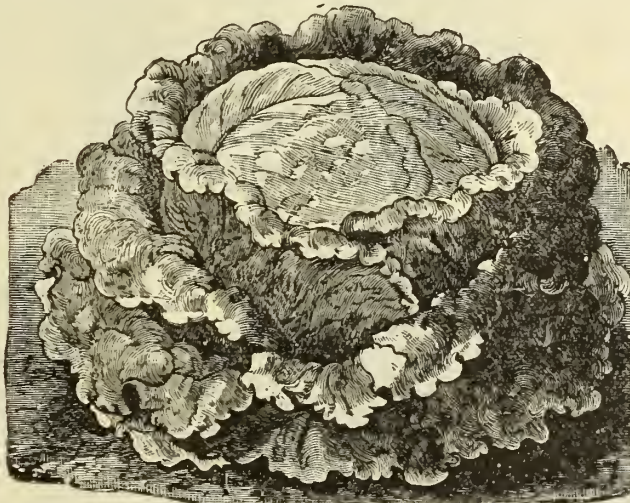
**ROMAINE OR PARIS WHITE COS.**—Differs entirely in shape from the other varieties, the head being elongated and of conical form, eight or nine inches in height and five or six inches in diameter. The outer coloring of this variety is yellowish green. It is very hardy and of good flavor. To blanch perfectly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

Pkts., 5c. and 10c. Oz., 15c. 1-4 lb., 30c. Lb., \$1.00.

### 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., 5 and 10c. Oz., 15c. 1-4 lb., 40c. Lb., \$1.25.

## LARGE LOAF LETTUCE.



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., 10c. 1-4 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., 15c. ¼ lb., 40c. Lb., \$1.25.

**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; very little 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., 10c. 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., 10c. ¼ lb., 30c. Lb., \$1.00.

**MUSK-MELON.**

German, Melone.

**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, four 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.



MARYLAND ENCL. BALTIMORE

BALTIMORE NUTMEG.

**Baltimore Nutmeg Cantaloupe.**

**T**HE cut is from a photograph taken from a sample lot of *Baltimore Nutmeg Cantaloupes* gathered from the field where our seed was grown, and is a fair representation of the whole crop. 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.

**EMERALD GEM.**

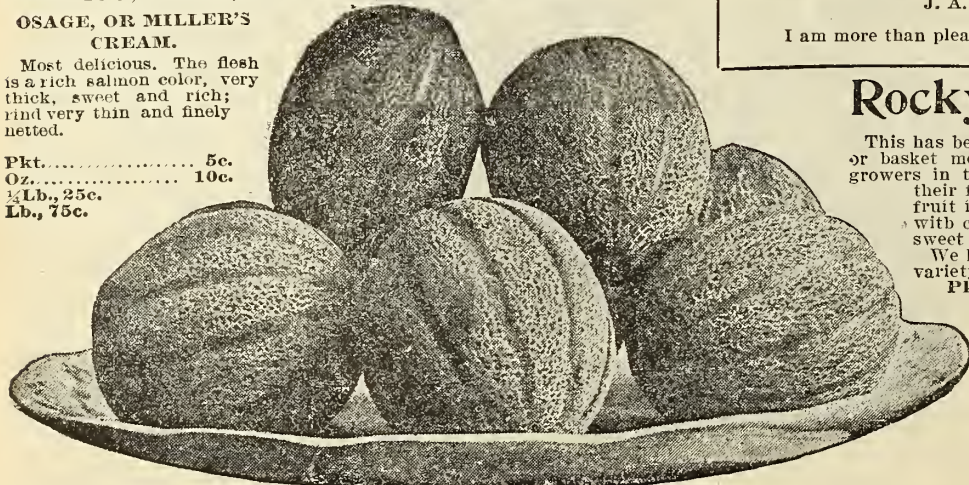
Meat, salmon color, exceedingly sweet and delicious; very early and prolific. One of the best for family use. Its appearance is not attractive, but try it, and you will want it again.

Pkt., 5c. Oz., 15c. ¼ lb., 50c. Lb., \$1.60.

**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., 25c.  
Lb., 75c.



ROCKY FORD.

**EARLY NETTED GEM.**

**E**XTENSIVELY 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., 70c.

**IMPROVED JENNY 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., 70c.

**TRUE TO NAME.**

The *Rocky Ford* I got of you last year was excellent, and every hill proved true to name.

J. A. RICHARDSON, Smithsburg, Md.

I am more than pleased with your seed.  
N. E. MILLER, Virginia.

**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.

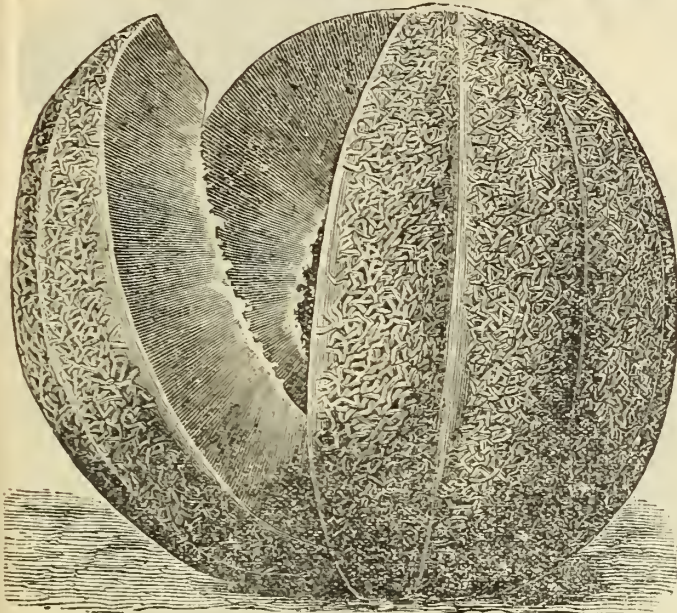
We have an exceptionally fine stock of this variety grown from choice selected specimens.

Pkt., 5c. Oz., 10c. ¼ lb., 25c.  
Lb., 70c.

**All Prices Subject to change without Notice.**

## MUSK MELONS—Continued.

### PAUL ROSE.



ANNE ARUNDEL.

### ANNE ARUNDEL CANTALOUPE

(Original Stock.)

The cut represents a sample of our stock photographed from fruit taken from the growing seed crop. It is very large, nearly round, deeply netted, and of good flavor. A wagonload of them at once attracts the buyers' attention, and when piled up on a market stall they are irresistible. No large grower's stock is complete without this superb melon.

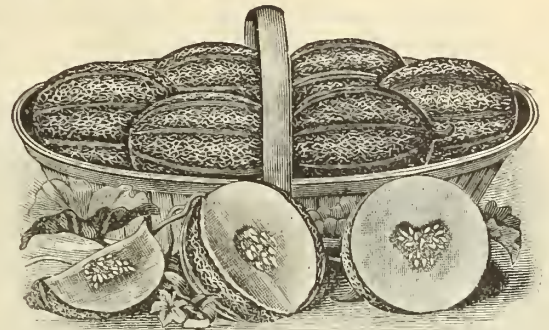
This handsome melon, introduced by us several years ago, was for years a special favorite with a number of the leading growers of Anne Arundel County, Maryland. This county is justly celebrated as growing the finest Cantaloupes in the country. We might almost say the finest in the world. Knowing its 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., 60c.

One grower says: "It is in all respects one of the best of melons."

Another says:

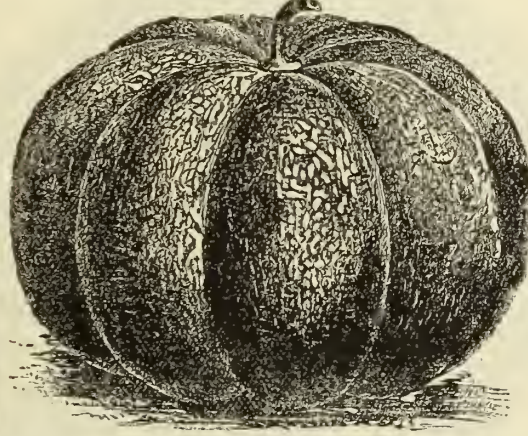
"Portsmouth, Va.

"Dear Sirs—The Anne Arundel Cantaloupe was perfectly satisfactory—just what it is claimed to be. It proved to be early, of good size, and gave me a large yield."



PAUL ROSE.

This variety originated with one of the most successful melon-growers in the country, who reports that when planted for market the fruit has brought him nearly twice as much per acre as he realized from any other sort. 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 have found the fruit the most uniformly good of any musk melon we have ever grown, every one of the hundreds tested being sweet and rich flavored. It is rare that a musk melon of such superlative quality is a good market or shipping sort, but the firm, solid flesh and thin but strong rind of this sort makes it the best shipper we know of, while it is just the size for hotel and table use. 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., 25c. Lb., 75c.



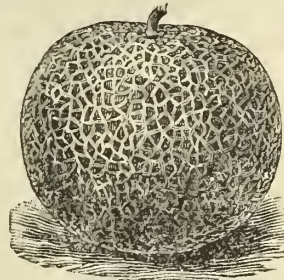
### Southern Beauty Cantaloupe.

The Musk Melon for the South.

The Grower says: "It is the finest Cantaloupe I have ever planted, particularly suited to the Southern climate. It is remarkably free from rot of all sorts caused by damp or rainy weather, and will hold up a long time after they have ripened, the outer rind remaining firm and sound for at least ten days after the melon first ripens." Again he says: "I shipped these Cantaloupes from this point to Chicago, Ill., Cleveland and Cincinnati, Ohio, by freight, where they arrived in perfect condition and brought fancy prices."

Pkt., 5c. Oz., 10c.  
¼ lb., 25c. Lb., 85c.

### BANQUET.



This superb melon represents years of careful selection and improvement. The raiser regards it as his greatest production, and likely to supersede all other red-fleshed melons. "The Banquet" is a medium-sized melon, flat at both ends, and more beautifully netted than any known variety. In quality it has no equal; the flesh is uniformly deep and of that granulated character that always indicates a good melon; the color is a dark, rich salmon.

Pkt., 5c. Oz., 15c.

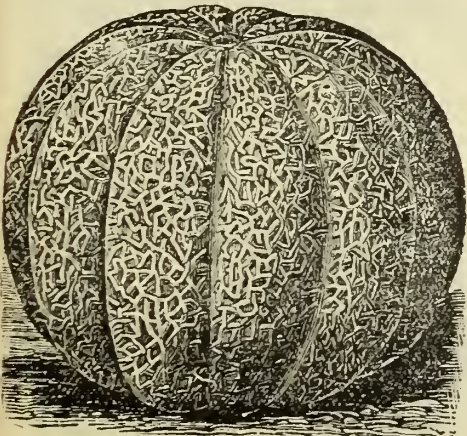
### EXTRA EARLY HACKENSACK

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., 35c. Lb., 90c.

**PERFECTED—DELMONICO.**—This is one of the best of the red-flesh sort; the flesh is a deep, rich orange color, of very fine grain, and of delicate and delightful flavor. Pkt., 5c. Oz., 15c. ¼ lb., 50c.

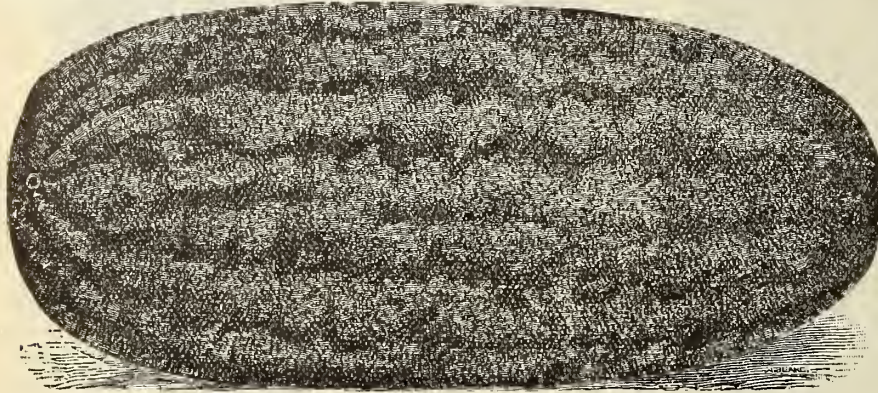
**LONG ISLAND BEAUTY**—Pkt., 5c. Oz., 10c. ¼ lb., 40c. Lb., \$1.25.



# WATERMELONS

German—Wasser Melone.

**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.

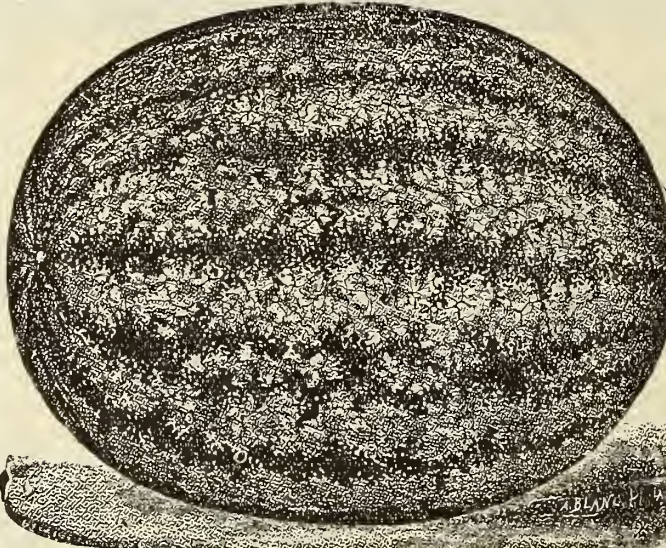
**I**T is early, very large, of oblong shape, and the flesh is of handsome crimson color, deliciously sweet, and extending close up to the rind. It has a thin, hard rind, beautifully mottled light and dark green. Its perfect shape, faultless color, fine texture and excellent flavor combine to make it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

Pkt., 5c. Oz., 10c. 1-4 lb., 20c. Lb., 65c.

## Duke Jones Watermelon

**I**N 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, ripe Melons being plucked from the vine just 67 days from the date of planting. Its chief claim for popularity is its delicious flavor. The flesh is crisp and very sweet, firm, but not too tough; no hard middles, but ripens evenly throughout; flesh deep crimson in color. The Duke Jones is the largest of Melons, but has no superior in its delicious flavor.

Pkt., 5c. Oz., 10c. 1-4 lb., 20c. Lb., 50c.



DUKE JONES.

### GRAY MONARCH, OR LONG WHITE ICING.

This distinct Melon is without 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. 1-4 lb., 15c. Lb., 50c.

### RATTLESNAKE WATERMELON.

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

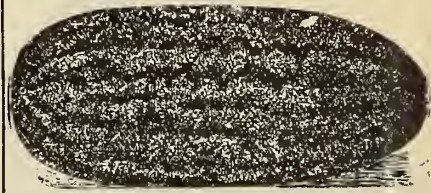
Pkts., 5c. and 10c. 1-4 lb., 15c. Lb., 50c.

## CITRON.

FOR PRESERVES.

Fruit round, handsome and small. Used in making preserves only.

Pkts., 5c. and 10c. 1-4 lb., 25c. Lb., 75c.



## FLORIDA FAVORITE.

**T**HIS we consider the richest and sweetest flavored Melon 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. ¼ lb., 20c. Lb., 60c.

### MEIVER'S SUGAR WATERMELON.

In outward appearance it somewhat resembles the old Rattlesnake. The quality, however, is so much superior that it is an injustice to mention the Rattlesnake on the same page with it, as it even surpasses such excellent varieties as Florida Favorite and Icing. It is also an extremely productive and hardy variety.

Pkt., 5c. Oz., 10c. ¼ lb., 20c. Lb., 60c.

### 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. ¼ lb., 30c. Lb., \$1.00

### 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 equaling it in tough skin and rind; in this respect even superior to Kolb Gem.

Pkt., 5c. Oz., 10c. 1-4 lb., 20c. Lb., 60c.

### 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.

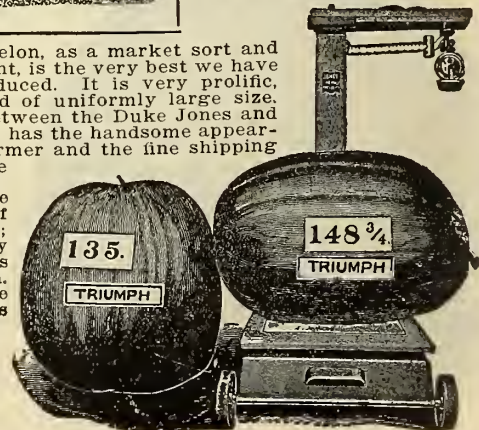
Pkt., 5c. Oz., 10c. 1-4 lb., 20c. Lb., 75c.

## TRIUMPH WATERMELON

**T**HIS new Melon, as a market sort and for shipment, is the very best we have ever introduced. It is very prolific, very early, and of uniformly large size. It is a cross between the Duke Jones and the Kolb Gem; has the handsome appearance of the former and the fine shipping qualities of the latter.

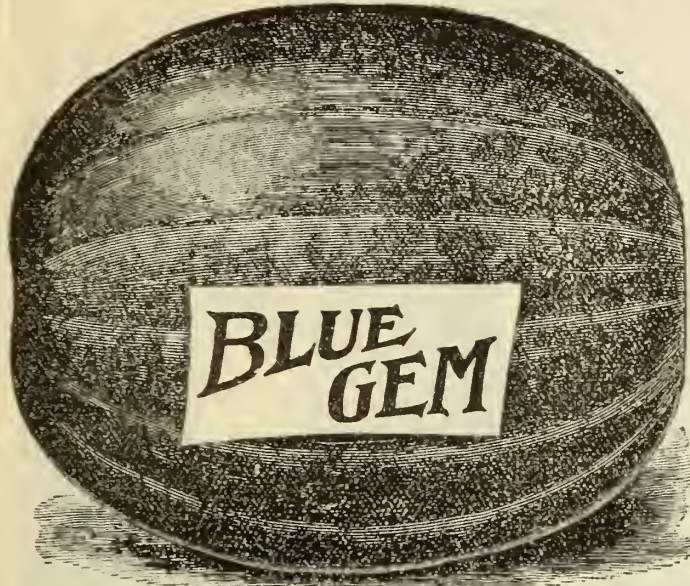
The rind, like Duke Jones, is of dark green color; the seed is exactly the same color as that of Kolb Gem. The average size of the Melon is very large.

Pkt., 5c. Oz., 10c. 1-4 lb., 15c. Lb., 50c.



**WATER-MELONS.**—Continued.

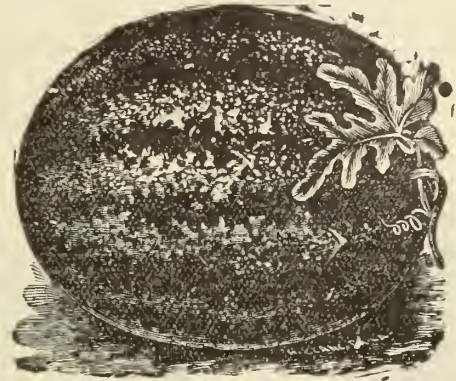
**KOLB'S GEM.**



**BLUE GEM.**

**T**HIS splendid Melon resembles the Kolb Gem in shape, and is one of the very best shippers, and as a table Melon is of a dark bluish color, with small grayish stripes. It 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., \$2.00.



**T**HIS 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.

Pkt., 5c. Oz., 10c. ¼ lb., 15c. 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., 12c. By Mail, 20c. Lb., Postpaid. 10 Lbs., \$1.00. 100 Lbs., \$8.00, by Freight or Express.

**CULTIVATION.**

**T**HE 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 successfully 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 9 or 4 months from the time of planting.



**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.

Packet, 5c. Ounce, 10c. ¼ lb., 15c. Lb., 40c.

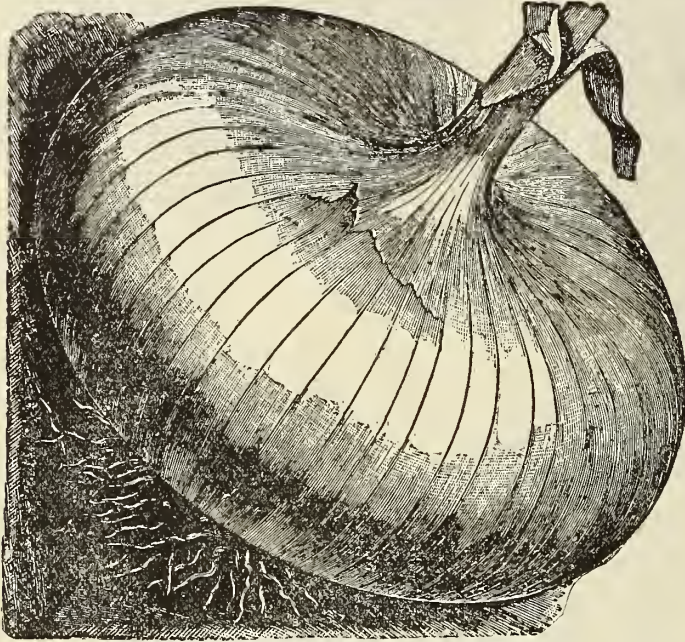
**WHITE MUSTARD.—1-4 Lb., 10c. Lb., 25c.**

**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 sale.

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

**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.

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

**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. ¼ lb., 25c. Lb., 75c.



**OKRA OR GUMBO.**

**S**elect 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. and 10c.

1-4 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.

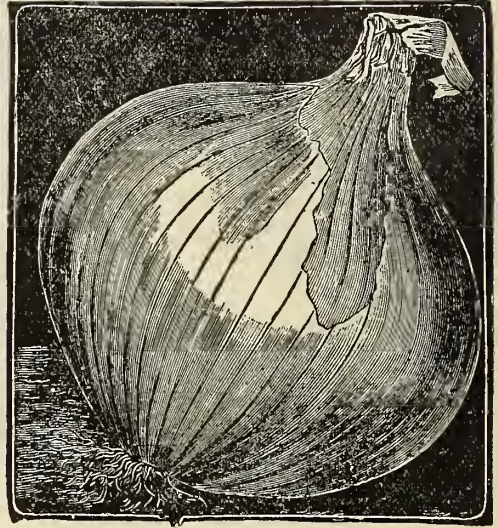
Pkt., 5c. Oz., 10c. ¼ lb., 15c. Lb., 40c.

**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., 25c. Lb., 70c.  
DWARF.—Pkt., 5c. Oz., 15c. ¼ lb., 25c. Lb., 75c.

**ONION SEED**



**PRIZETAKER.**

American Grown.

**T**his 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., 15c. ¼ lb., 35c. Lb., \$1.25.

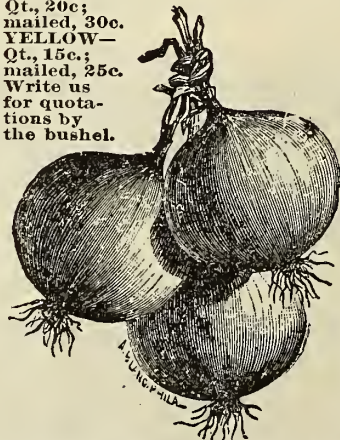
**WETHERSFIELD LARGE RED.**

Well-known and favorite sort. A large yielder and good keeper.

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

**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.



## ONION SEED.—Continued.

### 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., 10c.  
1-4 lb., 25c. Lb., 85c.  
5 lbs., \$4.00.

### YELLOW FLAT DANVERS.

Oz., 10c. 1-4 lb., 25c.  
Lb., 85c.

### Bermuda Varieties.

THEY are of a mild and delicate flavor, and keep longer than any foreign variety. Like the Italian varieties, they will produce full-grown Onions from seed the same season. In the South seed sown in the fall will produce fine, large Onions for market in early spring.

#### RED BERMUDA.

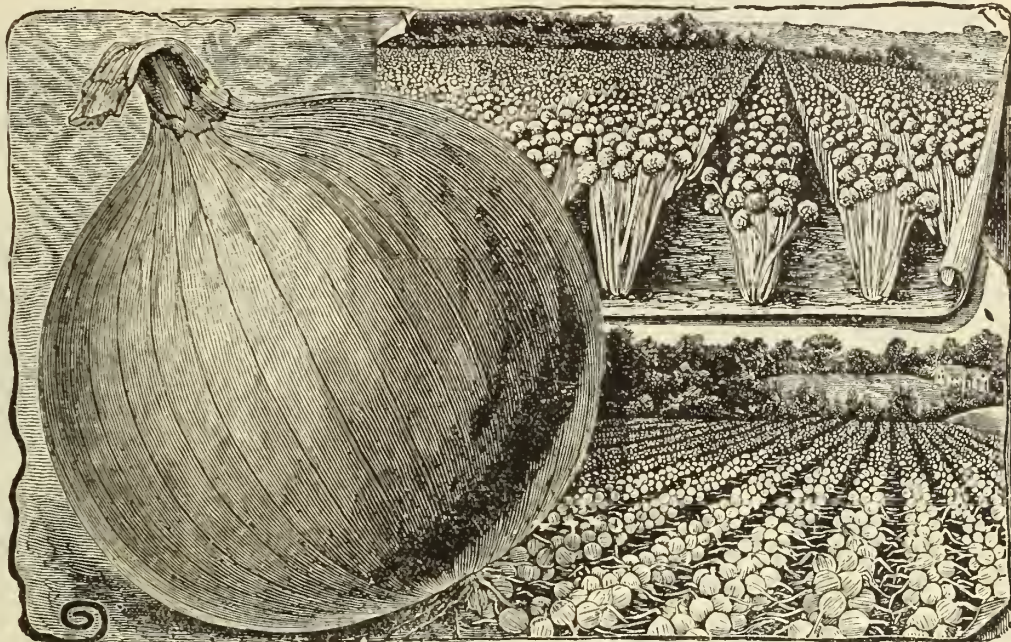
Pkt., 10c. Oz., 20c.  
1-4 lb., 50c.  
Lb., \$1.75.

#### WHITE BERMUDA.

Pkt., 10c. Oz., 20c.  
1-4 lb., 50c.  
Lb., \$1.75.

### 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.

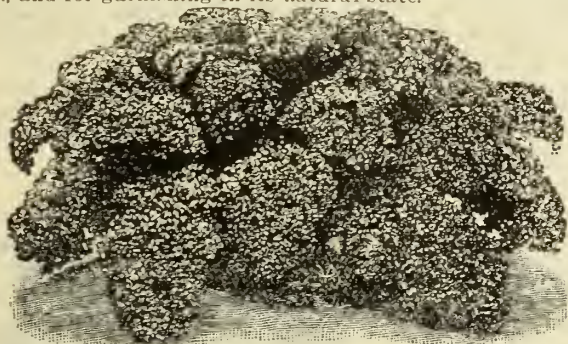


THIS CUT REPRESENTS A FIELD OF YELLOW GLOBE DANVERS.

Pkt., 5c. Oz., 10c. 1-4 lb., 30c. Lb., 90c. 5 lbs., \$4.00.

## 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. 1-4 lb., 20c. Lb., 50c.

**MOSS CURLED.**—A very select crimped variety.

Pkt., 5c. Oz., 10c. 1-4 lb., 20c. Lb., 50c.

## PEPPER, or Capsicum.

CULTIVATED mainly for Pickles; used as a seasoning in many ways; sometimes medicinally. Sow seed early in hot-bed, 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.

**CAYENNE.**—Small, long and tapering, very hot; best for seasoning Pickles. Pkts., 5c. and 10c. Oz., 20c. 1-4 lb., 50c.

**LARGE SWEET.**—Very large and excellent for Mangoes or Stuffed Pickles. Pkts., 5c. and 10c. Oz., 20c. 1-4 lb., 50c.

**BULL NOSE, or BELL.**—Good for pickling; very hot. Pkts., 5c. and 10c. Oz., 20c. 1-4 lb., 50c.

**RUBY KING.**—Excellent sort of large size and mild flavor. Pkts., 5c. and 10c. Oz., 20c. 1-4 lb., 50c.

**GOLDEN QUEEN.**—In shape and size similar to Bull Nose! of mild flavor; color, yellow. Pkts., 5c. and 10c. Oz., 25c.

**RED CHERRY.**—Pkts., 5c. and 10c. Oz., 20c.

**RED CHILLI.**—Pkts., 5c. and 10c. Oz., 20c.

## 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 5 or 6 inches apart.

### Hollow Crown or Sugar.

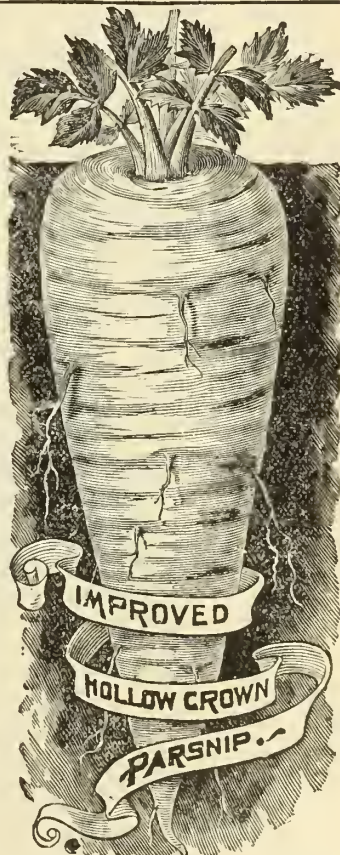
THE Hollow Crown is superior in quality to all other varieties, and the preferred kind with Baltimore gardeners. The roots are smooth, tender, handsome shape and early. We have the finest stock of Hollow Crown Parsnips that we know of in this country.

Pkts., 5c. and 10c.  
1-4 lb., 15c. Lb., 40c.

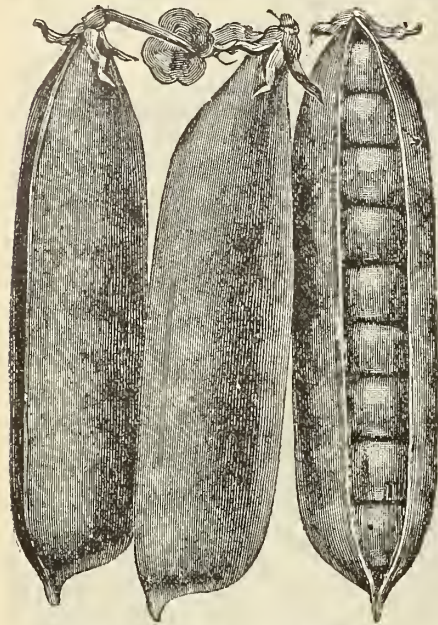
#### DOING SPLENDID.

We were very much pleased with the garden seeds we got from you. What we have sown are doing splendid.

MRS. A. B. RENN,  
Feagville, Md.



ALL PRICES SUBJECT TO  
CHANGE WITHOUT  
NOTICE.



EXTRA EARLY VARIETIES.

## G. & T. Co.'s FIRST EARLY

(In sealed bags thoroughly rogued and hand-picked.)

**T**HIS 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.

Pt., 15c. Qt., 25c. Peck, \$1.25.  
Bus., \$4.25.

**PEDIGREE EXTRA EARLY PEA.**—This new pea, just introduced, surpasses all for earliness and uniformity of growth. Pt., 15c. Qt., 25c. Peck, \$1.25. Bus., \$4.25.

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

Qt., 20c. Peck, \$1.15. Bus., \$4.00.

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

Qt., 20c. Peck, \$1.15. Bus., \$4.00.

**FIRST AND BEST.**—Height, 2½ feet. Grown with special care. One of the early varieties. Qt., 20c. Peck, \$1.15. Bus., \$4.00.

### TRIUMPH.

Qt., 20c. Peck, \$1.15. Bus., \$4.00.

**PHILADELPHIA.**—Extra early.

Qt., 20c. Peck, \$1.15. Bus., \$4.00.

**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. Qt., 20c. Peck, \$1.00. Bus., \$3.75.

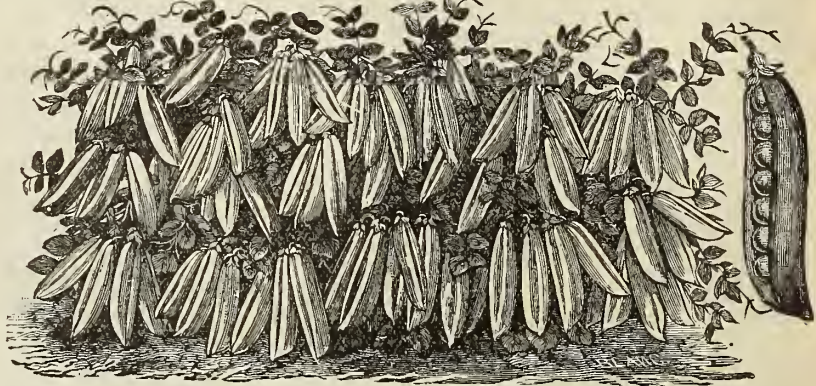
**GRADUS OR PROSPERITY—PALE GREEN WRINKLED.**—The most attractive novelty of recent years. Large, handsome pods, well filled, ripening with the earliest, and of vigorous habit.

Pt., 25c. Qt., 40c. Peck, \$2.50.

# PEAS.

**NOTICE.**—In ordering Peas to be sent by mail, please add 8c. per pint to pay postage.

**T**HE 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 a good condition. Plant the dwarf in rows two feet apart; those varieties attaining the 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.



NOTT'S EXCELSIOR PEAS.

### 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.

Pt., 20c. Qt., 35c. Peck, \$2.00. Bus., \$7.00.

**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.

Pt., 20c. Qt., 35c. Peck, \$1.75. Bus., \$6.75.

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

Pt., 15c. Qt., 30c. Peck, \$1.75. Bus., \$6.25.

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

Pt., 15c. Qt., 30c. Peck, \$1.50. Bus., \$5.75.

**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.

Pt., 15c. Qt., 25c. Peck, \$1.50. Bus., \$5.50.

**MEDIUM OR SECOND EARLY HALF DWARF, WRINKLED VARIETIES.**  
**ADVANCER.**—Height, 2½ feet. A green wrinkled variety, introduced some years ago, and has always given satisfaction.

Qt., 25c. Peck, \$1.10. Bus., \$3.75.

**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., 25c. Peck, \$1.15. Bus., \$4.00.

**YORKSHIRE HERO.**—Height, 2½ feet. A wrinkled variety; productive, and of very superior flavor.

Qt., 25c. Peck, \$1.15. Bus., \$4.00.

**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. Peck, \$1.25. Bus., \$4.50.

**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., 25c. Peck, \$1.15. Bus., \$4.00.

**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 seven to nine peas of fine quality: 1½ feet.

Pt., 15c. Qt., 30c. Peck, \$1.50.

Bus., \$5.00.

**HORSFORD'S MARKET GARDEN.** Height, 2½ feet. A medium early wrinkled variety, highly recommended.

Qt., 25c. Peck, \$1.15. Bus., \$3.75.

**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 Stratagem, and in every way superior.

Qt., 35c. Peck, \$2.00. Bus., \$7.50.

**DWARF GREEN WRINKLED MARROW.**—An excellent new wrinkled variety. Large pods and very productive.

Qt., 30c. Peck, \$1.25. Bus., \$4.25.



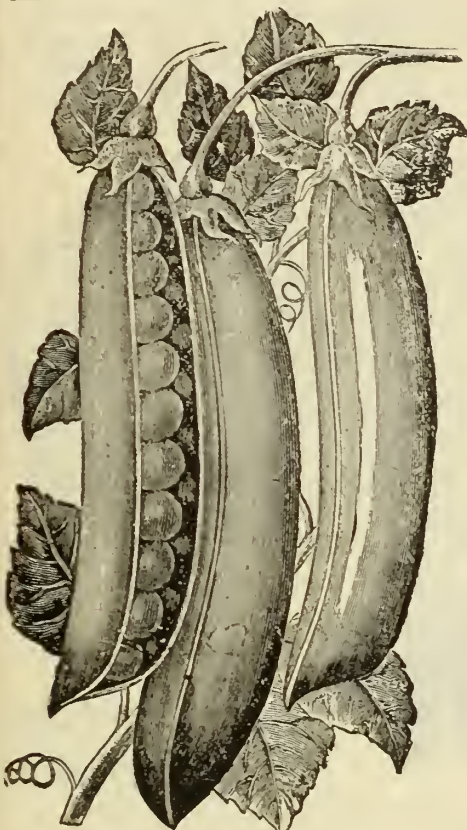
GARDENERS' FAVORITE.

**H**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. Peck, \$1.25.  
Bus., \$4.50.

PEAS—Continued.

FULL GROWN, MEDIUM AND LATE VARIETIES.



HEROINE PEA.

**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. Peck, \$1.50.  
Bus., \$5.00.

**TELEPHONE.**—Height, 3 to 4 feet. Large wrinkled seeds; pods large and well filled.  
Pt., 15c. Qt., 30c. Peck, \$1.75.  
Bus., \$6.00.

**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. Peck, \$1.50.  
Bus., \$5.00.

**CHAMPION OF ENGLAND.**—Height, 4 feet. An old favorite, rich flavored and very productive.  
Pt., 15c. Qt., 25c. Peck, \$1.25.  
Bus., \$4.00.

**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 seven to nine Peas of excellent flavor.  
Pt., 15c. Qt., 25c. Peck, 75c.  
Bus., \$2.75.

**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. Peck, \$1.50.  
Bus., \$3.75.

EDIBLE PODDED OR SUGAR PEAS.

MELTING SUGAR—Edible Pods.

**T**HIS 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, and are so brittle that they snap without any strings.  
Pt., 20c. Qt., 35c. Peck, \$2.00.

**TALL GRAY SUGAR (Crop failed).**—Edible pods; cooked in the pods same as Snap Beans.

**DWARF GRAY SUGAR.**—Edible pods; quite a favorite. Pt., 20c. Qt., 30c.

PUMPKIN.

**P**LANT in May, in hills 8 feet apart. Allot 10 seeds to each hill, as bugs often destroy the young plants, but only allow 2 to 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.

**T**HIS 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 stripe. The flesh is a rich yellow color, solid, fine-grained, very thick, flavor delicious.

Pkt., 5c. Oz., 15c. ¼ lb., 25c. Lb., 85c.

**LARGE CHEESE.**—Skin, reddish orange; flesh, thick, fine and sweet.

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

**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., 15c. ¼ lb., 25c. Lb., 75c.

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

Pt., 15c. Qt., 20c. Lb., 25c.

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

Pkt., 5c. Oz., 10c. ¼ lb., 20c. Lb., 60c.



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



ADMIRAL DEWEY.

ADMIRAL DEWEY.

Here we have a most excellent pea, with large, handsome pods; Peas of the highest quality. More dwarf than the Strata-gem, 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 fall to try it.

Pt., 20c. Qt., 35c. Peck, \$1.75.  
Bus., \$6.00.

Radishes



**LONG BLACK SPANISH.**—A large winter variety; one of the hardiest, with dark green leaves, firm in texture, keeping until spring.

Pkt., 5c. Oz., 10c. ¼ lb. 20c. Lb. 60c.

**LARGE 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.

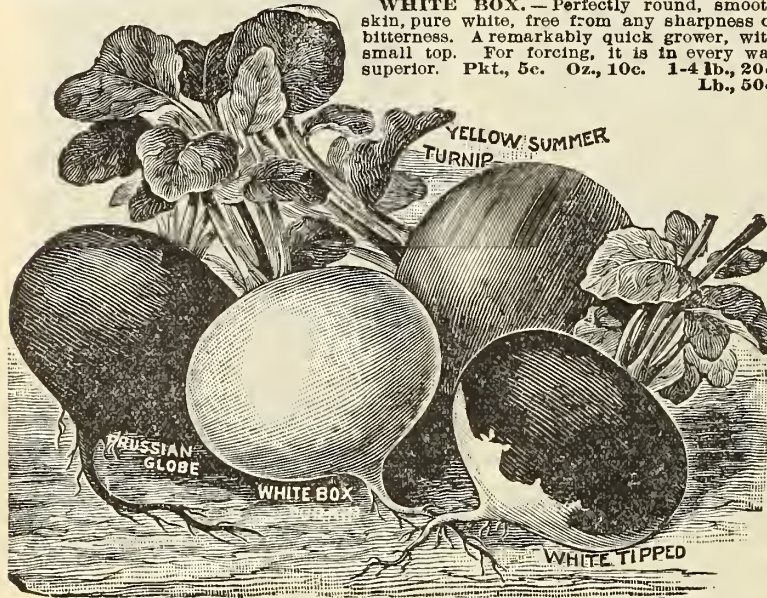
**SCARLET OLIVE-SHAPED RADISH.**—A showy half-long variety of pretty shape and bunches beautifully.

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

**RADISHES.**—Continued.

**GOLDEN GLOBE.**—An excellent summer Radish; Slow to run to seed; shape globular, bright yellow color, and mild flavor. Pkt., 5c. Oz., 10c. 1-4 lb., 15c. Lb., 40c.

**WHITE BOX.**—Perfectly round, smooth skin, pure white, free from any sharpness or bitterness. A remarkably quick grower, with small top. For forcing, it is in every way superior. Pkt., 5c. Oz., 10c. 1-4 lb., 20c. Lb., 50c.



**FOR** an early supply sow in hot-bed 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.

**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., 35c. 5 lbs., \$1.50.

**TRIUMPH RADISH—Striped, Red and White.**—This is a beautiful and odd Radish, which, when mixed in the bunch with Scarlet Radishes, makes a pleasant contrast. The Radishes are globe shape and strikingly handsome, having bright scarlet stripes on a white ground. It is a splendid forcing variety, with short top, small leaves, and matures quickly. It is very ornamental for table use. Pkt., 10c. Oz., 10c. ¼ lb., 30c.



Large White Summer.

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

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

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

**EARLY SCARLET, or PRUSSIAN GLOBE RADISH.**—This is the very best forcing variety; is sown largely by market gardeners and truckers, and they are delighted with it. It is of 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., 40c.

**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.

**CHINESE ROSE WINTER.** Remarkably fine for winter use. The best of the winter sorts. Pkt., 5c. Oz., 10c. ¼ lb., 20c. Lb., 50c.

**WHITE CHINESE WINTER, or CELESTIAL.**—An excellent white winter Radish; a good keeper. Pkt., 5c. Oz., 10c. ¼ lb., 20c. Lb., 65c.

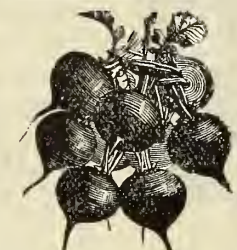
**GIANT STUTTGART.**—A splendid new variety, of excellent quality; withstands summer heat. Pkt., 5c. Oz., 10c. ¼ lb., 20c. Lb., 50c.

**CINCINNATI MARKET NEW GLASS RADISH.**—Pkt., 5c. Oz., 10c. ¼ lb., 15c. Lb., 35c.

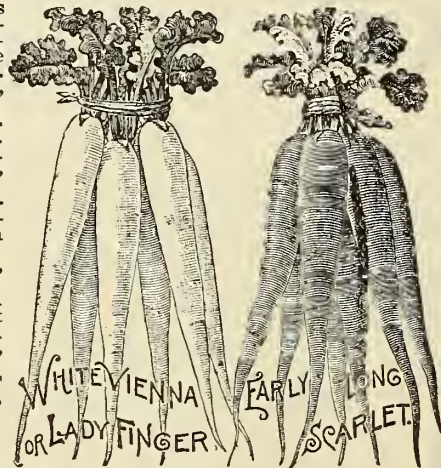
**WHITE VIENNA, or LADY FINGER.**—This is unquestionably the finest long white Radish. Of most handsome shape; color, a beautiful snow white. It is of very rapid growth, and remarkably crisp, brittle and tender, equally desirable for the market or home garden. Pkt., 5c. Oz., 10c. ¼ lb., 15c. Lb., 40c.

**LONG SCARLET.**—(American 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 imported Long Scarlet, as generally sold. Pkt., 5c. Oz., 10c. ¼ lb., 15c. Lb., 40c. 5 Lbs., \$1.75.

**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., 20c. Lb., 50c.



**EARLY SCARLET TURNIP.**—Turnip-shaped, skin red; for forcing. Pkt., 5c. ¼ lb., 15c. Lb., 50c.



WHITE VIENNA OR LADY FINGER

EARLY LONG SCARLET



**WHITE BELICACY.**—This excellent Radish, introduced by us last year, has proved itself all that has been claimed for it. It has become a great favorite with the truckers and market gardeners around Baltimore. Succulent, crisp, delicate, smooth and clean. Among the earliest spring varieties; an improvement on the White Strasburg, which it resembles, being more evenly shaped and smaller topped; grows into full size and perfection during the hottest months. Pkt., 5c. Oz., 10c. ¼ lb., 15c. Lb., 40c.



SALSIFY OR VEGETABLE OYSTER.

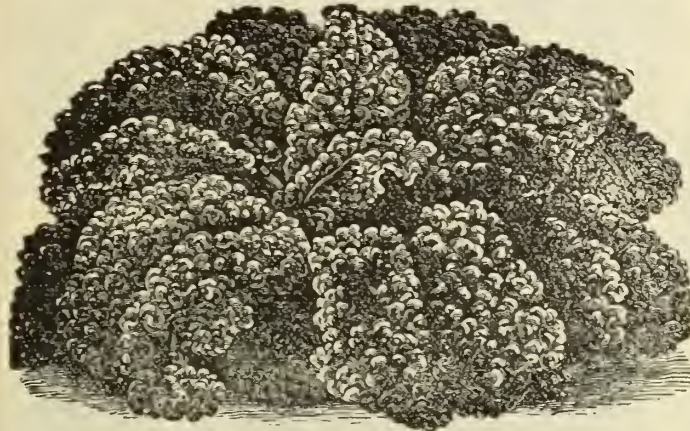
## RHUBARB, OR PIE PLANT.

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.

Pkt., 10c. Oz., 15c. 1-4 lb., 40c. Lb., \$1.50.

# 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. 1-4 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. 1-4 lb., 10c. Lb., 20c. 5 lbs., 75c.

**CURLED SAVOY, or BLOOMSDALE.**—The leaves are fine, curled, large, thick and heavy, and are produced in great numbers.

Pkt., 5c. 1-4 lb., 10c. Lb., 20c. 5 lbs., 75c.

**G. T. & CO.'S EXTRA CURLED AMERICAN GROWN SAVOY SPINACH.**—This is grown specially 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. 1-4 lb., 15c. Lb., 30c. 5 lbs., \$1.25.

**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.

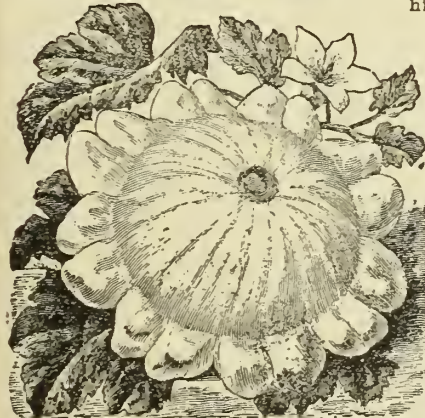
Pkt., 5c. 1-4 lb., 10c. Lb., 20c.

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.

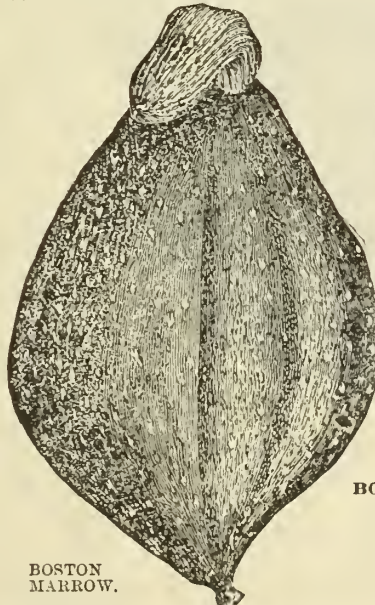


**EARLY WHITE BUSH SCALLOP.**—A desirable and marketable sort. Best known and most productive of all the summer sorts.

Pkt., 5c. Oz., 10c. ¼ lb., 20c. Lb., 60c.

**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., 20c. Lb., 60c.



BOSTON MARROW.



**SUMMER CROOK NECK (Early).**—Fine flavor; a desirable table sort. Pkt., 5c. Oz., 10c. 1-4 lb., 20c. Lb., 60c.

**WINTER CROOK NECK.**—Flesh red, fine flavor; largely grown for winter use. Pkt., 5c. Oz., 10c. 1-4 lb., 20c. Lb., 75c.

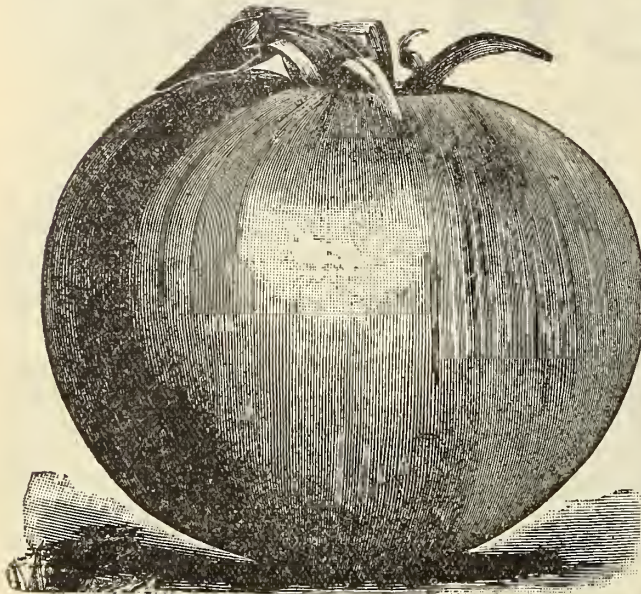
**HUBBARD.**—Fine and desirable for winter use. Pkt., 5c. Oz., 15c. 1-4 lb., 20c. Lb., 75c.

**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. 1-4 lb., 20c. Lb., 60c.

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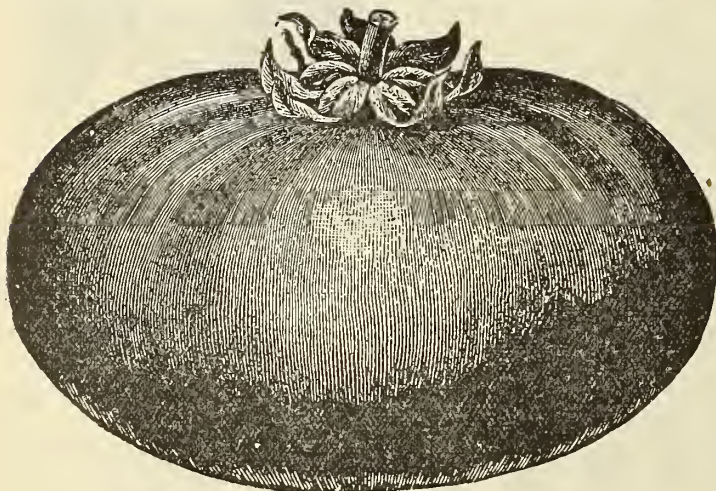
# TOMATO—Extra Early Varieties.



## 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*. We have secured a limited supply of the seed, and will only put them up in 10c. packages, ½ ounces, ounces and ¼ lbs., to enable it to be disseminated among a greater number of planters. The extremely large returns will fully justify the progressive trucker in trying a small quantity.

Package, 10c. 1 ounce, 60c. ¼ lb., \$2.00.



## 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 very 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. **Packets, 5c. and 10c. Ounce, 20c. ¼ pound, 75c. Pound, \$2.50.**

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 coldframe, 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.



**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. **Packets, 5c. and 10c. Ounce, 50c. ¼ pound, \$1.50. Pound, \$5.00.**

**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 stone without cracks or green core; sweet flavor. **Packets, 5c. and 10c. Ounce, 50c. ¼ pound, \$1.50. Pound, \$5.00.**

**MAULE'S EARLIEST.**—New; very fine; extra early; very prolific; fruits large size; excellent for shipping. **Packets, 5c. and 10c. Ounce, 25c. ¼ pound, 75c.**

**EARLY MICHIGAN.**—Vines large, with large, dark green leaves, vigorous and wonderfully productive; under high culture one of the heaviest croppers; fruit medium to large size; unlike most varieties, grows larger as the season advances; perfectly smooth, solid, but without core; deep rich red color; of excellent flavor. Its first fruits are very early, but the vines continue to bear for a long time. **Packets, 5c. and 10c. Ounce, 25c. ¼ pound, 75c. Pound, \$2.50.**

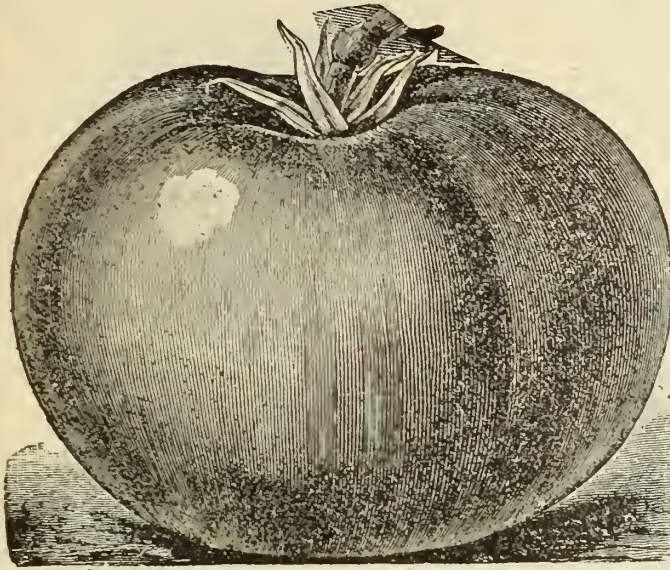
**FREEDOM.**—The new early; no better extra early grown; remarkably prolific; continual bearer; brilliant scarlet; smooth and round. A great point in this Tomato lies in the fact that enormous quantities of the fruit can be gathered while other early varieties are ripening a few. Remarkably solid; few seeds; and free from acidity. **Packets, 5c. and 10c. Ounce, 25c. ¼ pound, 90c. Pound, \$3.00.**

**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; fruits 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. The handsome color, even size, and great solidity of Success makes it an excellent market sort. It is well adapted also to canners' use by reason of rich deep-red color, solidity of flesh, and desirable form for rapid peeling without waste. **Packets, 5c. and 10c. Ounce, 25c. ¼ lb., 75c. Pound \$2.50.**

**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. **Packets, 5c. and 10c. Ounce, 20c. ¼ pound, 60c. Pound, \$2.25.**

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

## MAIN CROP VARIETIES.



**MATCHLESS.**—The color is a 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. Packets, 5c. and 10c. Ounce, 25c.  $\frac{1}{4}$  pound, 75c. Pound, \$2.50.



**NEW QUEEN TOMATO.**—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. Packets, 5c. and 10c. Ounce, 20c.  $\frac{1}{4}$  pound, 60c. Pound, \$2.00.

**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. Packets 5c. and 10c. Ounce, 20c.  $\frac{1}{4}$  pound, 60c. Pound, \$2.25.

**LIVINGSTON'S FAVORITE.**—Bright red, smooth Tomato of good size. Packets, 5c. and 10c. Ounce, 20c.  $\frac{1}{4}$  pound, 50c. Pound, \$2.00.

**PARAGON.**—Well-known standard bright red Tomato. Packets, 5c. and 10c. Ounce, 20c.  $\frac{1}{4}$  pound, 60c. Pound, \$2.00.

**ROYAL RED.**—New; resembles Favorite in form and color; good main crop variety. Packets, 5c. and 10c. Ounce, 20c.  $\frac{1}{4}$  pound, 50c. Pound, \$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. Packets, 5c. and 10c. Ounce, 20c.  $\frac{1}{4}$  pound, 50c. Pound, \$1.75.

**MAGNUS.**—A fine medium crop variety; has acme color; heavy; solid; fruit is set in cluster; heavy cropper and very robust. Packets, 5c. and 10c. Ounce, 20c.  $\frac{1}{4}$  pound, 75c.

**DWARF CHAMPION.**—Dwarf, upright growth; smooth purple fruit. Packets, 5c. and 10c. Ounce, 30c.  $\frac{1}{4}$  pound, 75c.

**PRIZETAKER.**—Early; large; handsome; deep crimson; slight tinge of purple. Packets, 5c. and 10c. Ounce, 20c.  $\frac{1}{4}$  pound, 50c. Pound, \$1.50.

### MEDIUM EARLY.

**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. Packet, 10c. Ounce, 20c.  $\frac{1}{4}$  pound, 60c. Pound, \$2.00.

**PONDEROSA.**—Remarkable for size; fruits heavy; deep red; flesh thick, solid and fine quality. Packets, 10c. Ounce, 35c.  $\frac{1}{4}$  pound \$1.25.

**ACME.**—Purple; early; medium; pink-purplish; slightly oval. Packets, 5c. and 10c. Ounce, 20c.  $\frac{1}{4}$  pound, 50c. Pound, \$1.75.

**CRIMSON CUSHION.**—Resembles Ponderosa in shape and size; color deep red. Packet, 10c. Ounce, 35c.  $\frac{1}{4}$  pound, \$1.00.

**BUCKEYE STATE.**—Purple; productive but not very solid; large, smooth purple. Pkts., 5c. and 10c. Oz. 20c.  $\frac{1}{4}$  lb., 50c. Lb., \$1.75.

**GOLDEN QUEEN or SUNRISE.**—Packets, 5c. and 10c. Ounce, 25c.  $\frac{1}{4}$  pound, 75c.

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

### SMALL FRUITED VARIETIES.

**PEAR-SHAPED RED.**—Pkts., 5c. and 10c. Oz., 25c.  $\frac{1}{4}$  lb., 75c.

**PEAR-SHAPED YELLOW.**—Used for preserves and pickles. Packets, 5c. and 10c. Ounce, 25c.  $\frac{1}{4}$  pound, 75c.

**YELLOW PLUM.**—Color bright yellow; excellent for preserving. Packet, 5c. Ounce, 25c.  $\frac{1}{4}$  pound, 75c.



**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. Packets, 5c. and 10c. Ounce, 20c.  $\frac{1}{4}$  pound, 60c. Pound, \$2.00.

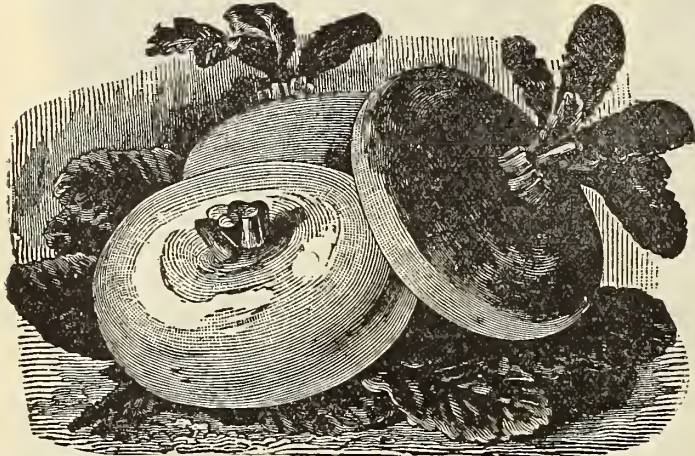
## HERBS.—Sow in spring in shallow drills, one foot apart, and when well up thin out or transplant to a proper distance.

	Pkts.	Oz.	$\frac{1}{4}$ Lb.	Lb.		Pkts.	Oz.	$\frac{1}{4}$ Lb.	Lb.
MARJORAM.....	5c.	15c.	40c.	\$1.25	CORIANDER.....	5c.	10c.	25c.	\$0.75
ANISE.....	5c.	10c.	30c.	.....	DILL.....	5c.	10c.	20c.	.60
BASIL.....	5c., 10c.	15c.	.....	.....	LAVENDER.....	5c.	15c.	.....	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.	25c.	.....	.....
CARAWAY.....	5c.	10c.	25c.	.....	SAGE (American).....	5c., 10c.	15c.	40c.	\$1.50
CHERVIL.....	5c.	25c.	.....	.....	SUMMER SAVORY.....	5c.	10c.	25c.	.75
CHICKORY.....	5c.	10c.	.....	.....	THYME (broad-leaved English).....	5c., 10c.	20c.	75c.	.....

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

## TURNIP.

FOR early use, sow the small sorts as soon as the ground can be worked in the spring, in drills fourteen inches apart, the Rutabagas thirty 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. 1-4 lb., 15c. Lb., 35c.

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

Pkt., 5c. 1-4 lb., 20c. Lb., 50c.

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

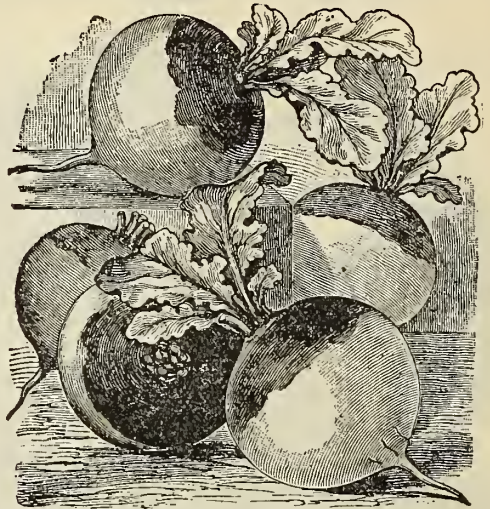
Pkt., 5c. 1-4 lb., 15c. Lb., 40c.

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

Pkt., 5c. 1-4 lb., 15c. Lb., 45c.

**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. 1-4 lb., 15c. 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. 1-4 lb., 15c. Lb., 35c.

**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. 1-4 lb., 10c. 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. 1-4 lb., 15c. Lb., 40c.

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

Pkt., 5c. 1-4 lb., 10c. Lb., 30c.

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

Oz., 5c. 1-4 lb., 10c. Lb., 30c.

## RUTA BAGAS 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.

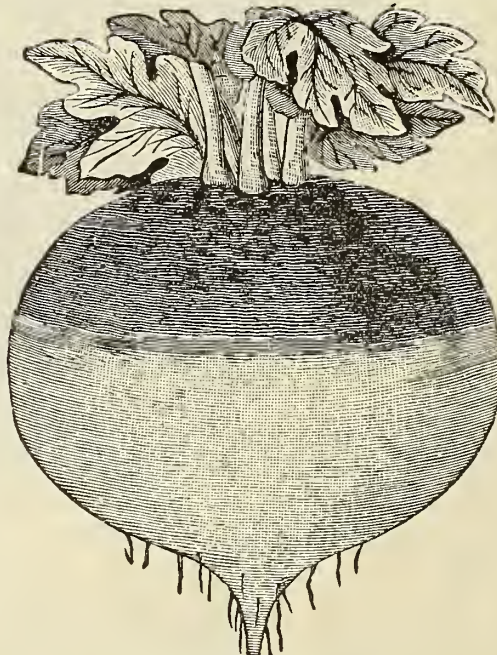
Yellow fleshed. A standard field variety for stock, and fine for family use. This splendid Swede is the hardiest, most productive and most nutritious variety in cultivation.

Pkt., 5c. 1-4 lb., 15c. Lb., 35c.

**YELLOW RUTABAGAS.**—1-4 lb., 10c.; Lb., 30c. (If Turnip is wanted by mail, add 10c. per lb. for postage.)

**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. Oz., 10c. 2 ozs., 15c. 1-4 lb., 20c. Lb., 40c.



PURPLE-TOP RUTABAGA.

## 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; 7,260 roots will plant an acre. Select good, loamy soil, plow deep, put in good quantity of manure and 100 pounds 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, \$1.00. Per 1000, \$4.50.

**Palmetto.**—Per 100, 75c. Per 1000, \$4.00.

**Colossal.**—Per 100, 75c. Per 1000, \$4.00.

**Mammoth White.**—Per 100, \$1.00. Per 1000, \$5.00.

Extra size roots, 50c. per 1000 additional to above prices.

**ARTICHOKES (Jerusalem).**—Pk., \$1.00. Bu., \$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.

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.



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, 60c. Bushel, \$1.85. Barrel, \$4.75.**

**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, \$4.00.**

**EARLY OHIO.**—This is very early and productive, of fine quality, and an excellent keeper. **Peck, 50c. Bushel, \$1.50. Barrel Sack, \$4.25.**

**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, \$1.60. Barrel Sack, \$4.25.**

**NEW YORK EARLY ROSE.**—A leading variety for earliness, quality and productiveness. **Peck, 50c. Bushel, \$1.50. Barrel Sack, \$4.00.**

**IRISH COBBLER (a New Sort).**—Very productive, matures ahead of the Early Ohio. 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, \$4.25.**

**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, 60c. Bus., \$1.50. Barrel Sack, \$4.00.**

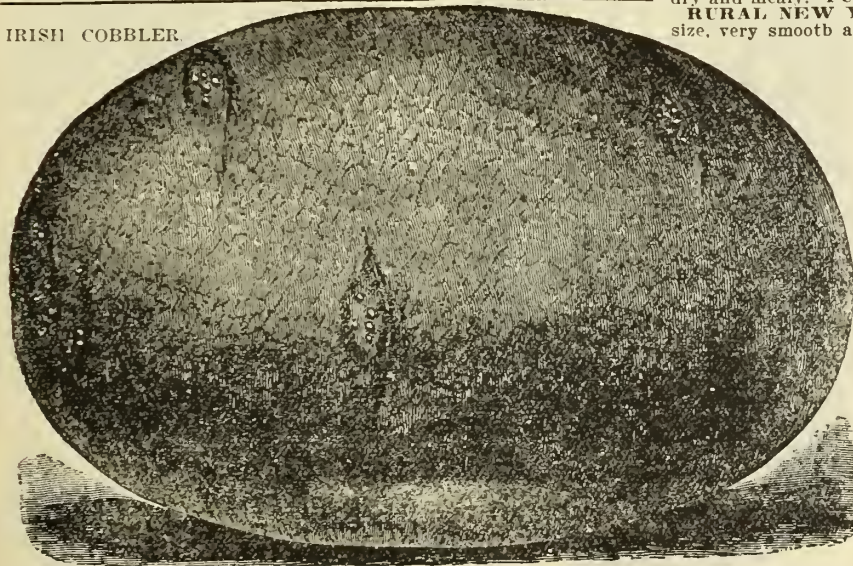
**RURAL NEW YORKER, No. 2.**—A valuable variety of large size, very smooth and a great cropper; in quality unexcelled. This variety is yearly becoming more popular as the best late long keeper, and we recommend it highly. **Peck, 50c. Bushel, \$1.50. Barrel Sack, \$4.00.**

**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, \$3.75.**

**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, \$4.00.**

**GREEN MOUNTAIN.**—A fine late sort. **Peck, 50c. Bushel, \$1.50. Barrel Sack, \$4.00.**

IRISH COBBLER.



SWEET POTATOES.

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

## Second Crop Southern Grown Seed Potatoes.

SINCE we have been advertising the **Second Crop Seed** we often have been asked what it signified, and for the benefit of those who do not seem to know we will state that they are the product of the first planting in the spring, planted again as soon as dug 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 all the growth goes into the tubers, which grow to full marketable size 12 to 15 days earlier than ordinary seed.

The results from the planting of this seed have been so remarkable that our sales in consequence have grown much beyond our expectations.

The following varieties are grown from first crop Northern stock:

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

**EARLY ROSE.**—Peck, 50c. Bushel, \$1.50. Barrel, \$3.50.

**EARLY PURITAN.**—A splendid early sort; fine, white and prolific, producing large crops of handsome, smooth tubers. **Peck, 50c. Bushel, \$1.50. Barrel, \$3.50.**

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.

### 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.

### OATS.

THIRTY-TWO POUNDS TO THE BUSHEL.

**FANCY NEW YORK AND MICHIGAN WHITE.**—A very productive variety of extraordinary weight.

Per Bus. (32 lbs.) \$1.00.

**CHOICE WHITE.**—Market prices. Bus. 32 lbs.

**BLACK OR MIXED.**—Bus. 32 lbs. Market prices.

**GOOD SEED OATS.**—Unnamed varieties.

At Market 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 1st of August.

### 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. **\$1.40 per Bus. 10 Bus., \$1.30 per Bus.**

**SILVER HULL.**—Write for prices.

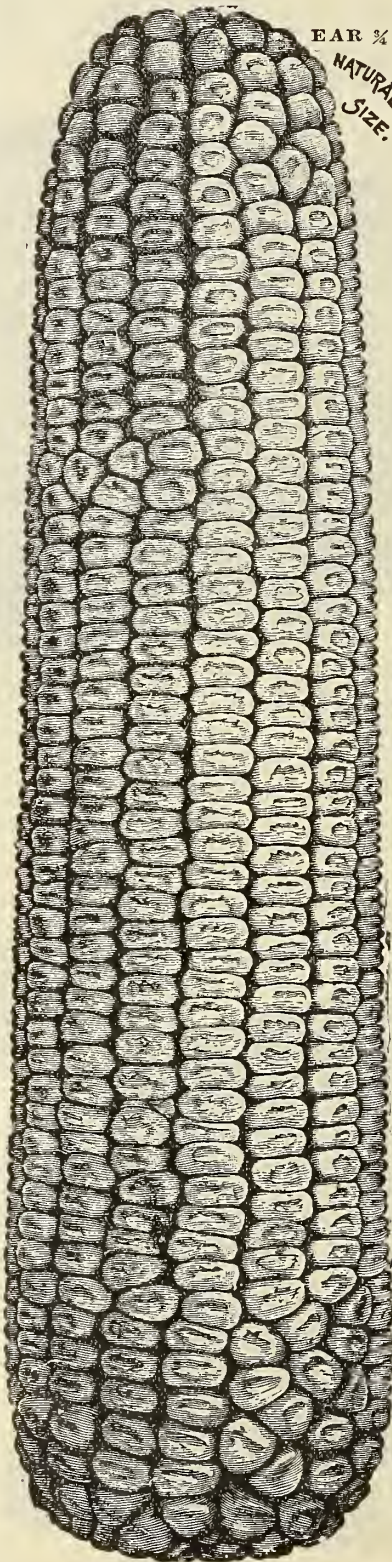
### BARLEY.

**MANSHURY SPRING BARLEY.**—This is the most productive variety we know, and having grown it ourselves, can recommend it. **By Express or Freight—Peck, 50c. Bus., \$1.50.**

**NEW BEARLESS SPRING BARLEY.**—Sow as soon as frost is out of the ground, the earlier the better. Being beardless, it handles as easy as oats, and makes a stronger feed. **By Express or Freight—Peck, 50c. Bus., \$1.50. Bags, 18c.**

**FALL BARLEY.**—Write for prices.

# YELLOW CORN.



**CHESTNUT GROVE YELLOW CORN.**—This Corn was grown on Chestnut Grove Farm, Baltimore County, and the average yield from the whole crop was 18 1-16 barrels to the acre. The ears are large, deep, medium-sized grain, and of beautiful color.

**Qt., 10c. Peck, 60c. Bus., \$1.75.**  
**4 Bus., \$6.00.**

**AUSTIN'S COLOSSAL YELLOW DENT CORN.**—The largest, most prolific yellow corn in existence; the ears attain an average length from 12 to 16 inches, and make a crop in 110 to 120 days, growing medium-sized fodder; very deep grain.

**Qt., 15c. Peck, 60c. Bus., \$1.75.**  
**4 Bus., \$6.00.**

**IMPROVED MARYLAND YELLOW DENT.**

**OUR MARYLAND DENT CORN** has taken first premium over all other field Corn wherever exhibited. 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., 10c. Peck, 50c. Bus., \$1.50.**  
**4 Bus., \$5.50.**

**EARLY LEAMING.**—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., 10c. Peck, 50c. Bus., \$1.50.**

**GOLDEN BEAUTY.**—A large, broad-grained yellow Corn, with ears of perfect shape and very small cob. The richness of color and the quality of the grain make it a very superior variety.

**Qt., 10c. Peck, 50c. Bus., \$1.50.**  
**4 Bus., \$5.50.**

**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., 10c. Peck, 50c. Bus., \$1.50.**

**POP CORN.**—The best kind for popping. **Lb., 10c. 4 lbs., 25c. By mail, 20c. per pound.**

## WHITE CORN.

**IMPROVED WHITE PROLIFIC.**

**THIS** Corn is specially adapted for strong ground, exceedingly prolific, very showy, large ears, deep grain, slightly wrinkled, frequently grows two ears to the stalk. Produces heavy fodder; decidedly the best-paying Corn for strong land.

**Qt., 10c. Peck, 50c. Bus., \$1.50.**  
**4 Bus., \$5.50.**

**MARYLAND WHITE.**—This is an excellent white Corn, grows good-sized ears, and makes splendid meal. Produces better crops on average land than most any other variety.

**Qt., 10c. Peck, 50c. Bus., \$1.50.**  
**4 Bus., \$5.50.**

**BEST'S TWIN EAR.**—The large fodder produced by this variety makes it a fine ensilage corn. Produces two fully developed ears to the stalk, averaging nine inches.

**Qt., 15c. Peck, 50c. Bus., \$1.50.**  
**4 Bus., \$5.50.**

**BLUNT'S PROLIFIC.**—Remarkably prolific, producing from 3 to 5 good-sized ears on a stalk and growing very large fodder; is frequently used for ensilage.

**Qt., 10c. Peck, 50c. Bus., \$1.50.**  
**4 Bus., \$5.50.**

**SOUTHERN SNOWFLAKE.**—A well-known and very popular Corn throughout the South. Suitable for meal or feeding purposes; the best white Corn for poor land.

**Qt., 10c. Peck, 50c. Bus., \$1.50.**  
**4 Bus., \$5.50.**

**90-DAY CORN (Red Cob).**—This is an elegant Corn for truckers and market gardeners, as it is a good seller as green Corn. Is suitable for either early or late crop.

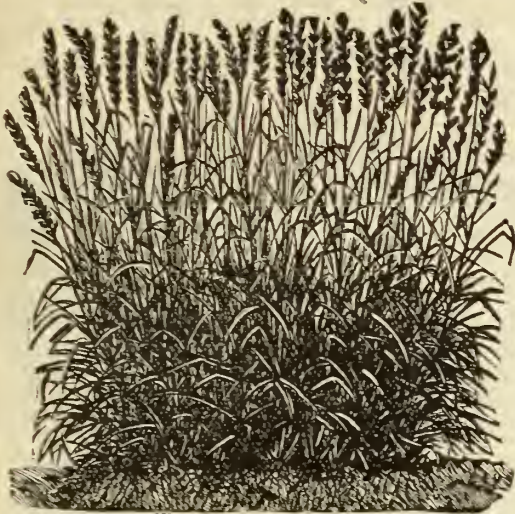
**Qt., 15c. Peck, 50c. Bus., \$1.50.**

**HICKORY KING WHITE CORN.**—Produces very large, broad, flat white dent grains, which are closely placed on a very slender cob.

**Qt., 10c. Peck, 50c. Bus., \$1.75.**

**WHITE ENSILAGE CORN.**  
Specially adapted for Ensilage. **Bus., \$1.50.**

## OUR SPECIAL GRASS MIXTURE FOR HAY AND PERMANENT PASTURES.



ITALIAN RYE GRASS.

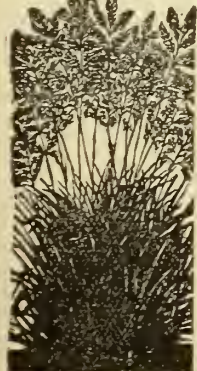
**ITALIAN RYE GRASS.**—Is an annual, and should be sown every year at the rate of fifty pounds per acre. It can be sown during August, September or October. It should be mown as early as the blossoms appear, or the hay will not be so good, and it can be cut every month from early spring if the soil and weather are suitable. **Bus., 20 lbs. Lb., 12c. 10 lbs., \$1.00. Per 100 lbs., \$8.00.**

**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., 45c. 10 lbs., \$3.50.**



ENGLISH RYE GRASS.

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



KENTUCKY BLUE GRASS.

**WOOD MEADOW (Poa nemoralis).**—An early nutritive grass; thrives better under trees than other grasses. Is also an excellent pasture grass. **Lb., 50c. 10 lbs., \$4.00. 14 lbs. to Bus.**

**RHODE ISLAND BENT GRASS (Agrotis canina).**—A very fine variety for lawns. **Lb., 35c.**

**SWEET VERNAL (Anthoxanthum odoratum).**—Emits an agreeable odor, which it imparts to the hay. **Lb., \$1.50.**

**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 pasture when once established. It is much the best, however, to combine other grasses with it, for either lawn or pasture. Sow in the spring or fall. **Fancy, triple-cleaned, Bus. (14 lbs.) Per lb., 15c. 100 lbs., 12c. lb.**

**NOTICE.**—Beware of cheap Canada Blue Grass, as it is full of thistle.

**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 the seed usually sold are the grade in the chaff, known as Prime, and the Fancy Clean seed, which is the seed cleaned from the chaff and all impurities. We would strongly advise our customers to sow the Fancy Clean seed in preference to the Prime, or the seed in the chaff, as it will give much better and more satisfactory results. We can also furnish the Choice and Prime Fancy Red Top as usually sold. It requires about 8 to 10 pounds to seed an acre of the Fancy Clean Seed, or 3 to 5 bushels of the Prime.

**Red Top in the Chaff, per Bus. of 10 lbs., 35c. Choice Extra Heavy Seed, per Bus. of 10 lbs., 75c. Fancy Clean Seed, 32 lbs. to Bus., 15c. lb. \$10.00 per 100.**

**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 bushel). **Lb., 28c. 100 lbs., \$22.00.**

**CREeping BENT GRASS (Agrotis stolonifera).**—Excellent for lawns, succeeds well in all conditions, makes a low velvety growth. **Pound, 28c. Bushel (20 Lbs.), \$4.00.**

**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 bushel; 3 bushels to the acre. **Lb., 35c. Bus., \$2.00.**

**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 pasture mixtures. Sow about 30 pounds per acre. **Lb., 20c. Bus. of 12 lbs., \$2.00.**



MEADOW FESCUE.

**MEADOW FESCUE, RANDALL, or ENGLISH BLUE GRASS (Festuca pratensis).**—This should be very much more largely used than at present. It makes a very good hay and pasture 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 pasture and hay grass. It succeeds well in nearly all sections of the South, and should be very largely used in pasture 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., 18c. 100 lbs., \$16.00.**



RED TOP GRASS.

### 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.**—Fourteen pounds to the bushel, two bushels to the acre.

**Per Bus., \$2.50. 10 Bus. for \$23.50.**

**MIXTURE FOR LOWLAND.**—Fourteen pounds to the bushel, two bushels to the acre.

**Per Bus., \$2.50. 10 Bus. for \$23.50.**

**GRASSES AND CLOWERS**

CONTINUED.

**MILLET.**

**GERMAN, OR GOLDEN MILLET.**

AN improved variety, medium early, growing three to five feet high. The heads are closely condensed, though the spikes are very numerous. This is the best and most productive Millet to grow. Weight, per bushel, 50 pounds. Market prices.

**HUNGARIAN MILLET** (*Panicum germanicum*).—Early and productive, growing 2 to 3 feet high, with an abundance of foliage and slender heads. Weight, per bushel, 48 pounds. Market prices.

**COMMON MILLET.**—Weight, per bushel, 50 pounds.

**IMPORTANT.**—It does not pay the farmer to buy cheap Grass Seeds, as it is liable to be either old seed, or full of weeds.

**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. Market prices.



MILLET.

**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 fluctuates.

By express, 18c. lb. Bus. of 14 Lbs., \$2.25.



ORCHARD GRASS.

**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. Market prices.

**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., 18c. By mail, 28c. 6 Lbs., \$1.00, by express.

**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 pounds to the acre.

Pound.....20c.  
By mail.....28c.  
6 Pounds, by express...\$1.10.

Special prices in large quantities on application.



LUCERNE.

**FINEST IN THE COUNTRY.**

Last June you sent me four bushels of German Millet, and I now have five acres of it. Everyone says it is the finest in the country. It is in a low meadow, and the dry weather does not seem to have any effect upon it.

F. A. WELTY, Emmitsburg, Md.

**WHITE DUTCH CLOVER.**

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

Pound.....30c.  
By mail, Pound.....40c.  
10 Pounds, by express.....\$2.80.

**CRIMSON CLOVER.**

SEE PAGE 33.

**Grass and Clover Seed Mixtures**

**FOR MOWING FOR HAY, BUT CAN BE GRAZED.**

**MIXTURE No. 1.—For Moist Bottom Land.**

Composed of the following Grasses:  
Red Top. Meadow Fescue. Timothy.  
Red Clover. Alsike Clover. Kentucky Blue Grass  
Sow 20 pounds to the acre.  
Price—\$12.00 Per 100 Pounds.

**MIXTURE No. 2.—For Light, Dry, Gravelly, or Sandy Soils.**

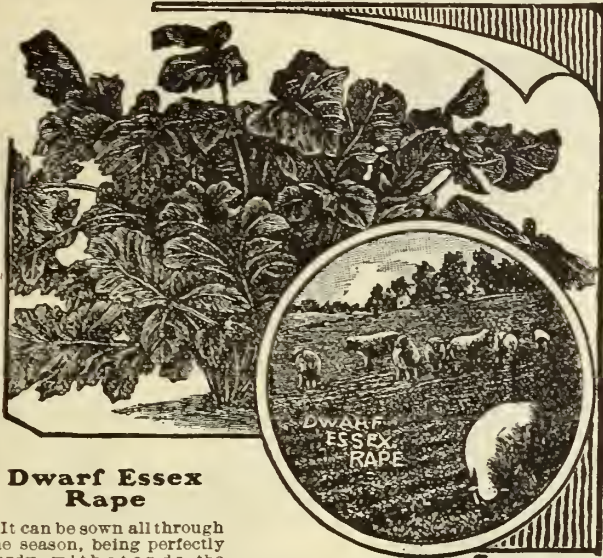
Composed of the following Grasses:  
Orchard Grass. Perennial Rye Grass. Tall Meadow Oat Grass.  
Hungarian Brome Grass. Red Clover. Fancy Red Top.  
Meadow Fescue.  
Sow 35 pounds to the acre.  
Price—\$13.00 Per 100 Pounds.

**MIXTURE No. 3.—For Good Loam Soil.**

Composed of the following Grasses:  
Meadow Foxtail. Orchard Grass. Tall Meadow Oat Grass.  
Perennial Rye Grass. Meadow Fescue. Kentucky Blue Grass.  
Red Clover.  
Sow 35 pounds to the acre.  
Price—\$13.00 Per 100 Pounds.

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

## FORAGE AND SILO SEEDS.



### 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 five pounds 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., 10c.** By express, 10 Lbs. and over, 8c. Lb., not prepaid. \$7 per 100 Lbs. If wanted by mail add 8c. per pound for postage.



### SOJA BEANS.

The Great Drought-Resisting Forage Crop, unsurpassed in nutritive value for feeding; also makes a splendid soil improver.

THE DRY BEANS, roasted and ground resemble and taste like coffee, hence it has been advertised as German Coffee Berry. Its great value, however, is as a forage crop and for fertilizing the soil and for pasturing or feeding the green fodder.

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.

### FLAX SEED.

Lb., 10c. 5 Lbs., 25c.  
Bus., \$2.50.

### Flax Seed Meal.

For horses and cattle  
Lb., 10c. 6 Lbs., 25c.  
In quantities at market prices.

**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, 75c. Bus. \$2.50.

**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 two to three bushels to the acre. Sow in spring, while ground is cool and moist, or in early autumn. Bushel of 60 pounds. Write for prices.

**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 one to two bushels per acre. Bushel of 60 pounds. Write for prices.

**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., 8c.; by mail 15c. 4 Lbs., 25c. 10 Lbs., 50c.

**F**OR 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.

### CRIMSON CLOVER.

THE GREAT NITROGEN GATHERER.

**T**HE 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. Fifteen or twenty pounds should be sown to the acre, according to quality of ground. **10c. per Lb.;** by mail, **20c.** Ask for prices in quantities.

### EARLY AMBER SUGAR CANE.

It 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. Culture same as Corn. Sow 3 or 4 quarts per acre broadcast or 1 bushel per acre for hay. **Lb., 10c.** By mail, **20c.** Bus., (50 Lbs.,) **\$2.00.**

### TEOSINTE.

A most valuable and enormous yielding, continuous cutting forage crop; but should be planted very early to succeed well. Good to use as green food, and also makes an excellent dry 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., 15c. ¼ Lb., 35c. 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 feed. Sow in May or June at the rate of one bushel per acre for seed, or 2 bushels for soiling.

**BLACK EYE COW PEA.**—The Black Eye 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.

### CANADA FIELD PEAS.

Sown in February, March or April, with a small quantity of oats, they make a large yield of forage. Sow one to one and one-half bushels per acre broadcast with half a bushel of oats. Cut for hay before the Peas mature. Per Peck, 50c. Per Bushel, \$1.65.

Write for special prices if a quantity is required.

### 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 four to five pounds to acre. **Lb., 10c. 10 Lbs., 60c. 100 Lbs., \$3.00.**

### Red Kaffir Corn

**Lb., 10c. 10 Lbs. 65c. 100 Lbs., \$3.25.**



KAFFIR CORN.

## THE LAWN.



PART OF CHESTNUT GROVE LAWN, BALTIMORE COUNTY.

### 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. ½ peck, 65c. Peck, \$1.10. Bushel of 20 pounds, \$4.00.**

#### WHITE DUTCH CLOVER.

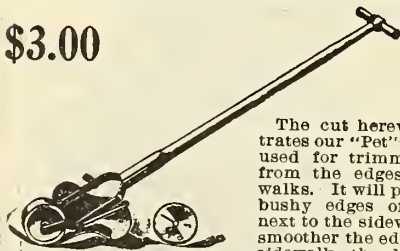
(*Trifolium Repens.*) See page 32.

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.

**Pound, 25c. By mail, 35c. 10 pounds by Express, \$2.25.**

#### THE "PET" LAWN TRIMMER.

**\$3.00**



The cut herewith illustrates our "Pet" Trimmer, used for trimming grass from the edges of sidewalks. It will pick up the bushy edges of the sod next to the sidewalk. The smoother the edges of the sidewalk the better the

tool will work. It will carve out a little strip of sod and deposit it on the walk several inches from the edge, where it may be very easily swept up. It will leave a clean little valley between the edge of the walk and the sod, giving the lawn a prettier appearance than can be done by any other process. It can be adjusted to run either deep or shallow. The cut shows a little disc which is intended to be used for trimming around the edges of flower beds. This disc is to be slipped on the main shaft between the mold board arm and the castiron gauge wheel. When trimming along the edges of sidewalks the disc cannot be used. **Price \$3.00.**

### 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.

**Our Lawn Grass Should Not Be Confounded With the Cheap, Chaffy Grasses Offered at Less Prices.**

### 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. "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. Bus. of 20 lbs., \$7.00.** If by mail, add at the rate of 5c. a quart for postage.

### GRIFFITH & TURNER CO'S. GOLF LINK MIXTURE.

**Bushel..... \$2.50. Ten Bushel Lots..... \$2.25.**

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.

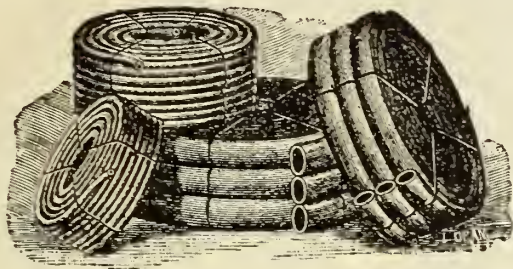
As it is highly essential that golf and cricket grounds should be mowed closer than ordinary lawns.



ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

LAWN REQUISITES.

RUBBER HOSE.



TRIX.—3-ply, 3/4-inch, in 25 and 50-foot lengths.....	Per Ft.	8c.
ORIOLE.—3-ply, 3/4-inch, in 25 and 50-foot lengths (100 pounds pressure).....		10c.
GRIFFITH & TURNER CO.'S EXTRA.—3-ply, 3/4-inch, in 25 and 50-foot lengths (125 pounds pressure).....		12c.
CREST.—4-ply, 3/4-inch, in 25 and 50-foot lengths (200 pounds pressure).....		15c.
GRIFFITH.—5-ply, 3/4-inch, in 25 and 50-foot lengths (500 pounds pressure).....		16c.

RUBBER HOSE FOR SPRAY PUMPS.

3/4 inch tubing.....	Sc.	1/2 inch Spray, No. 2.....	15c.
1/2 inch XX.....	10c.	1 inch Baltimore.....	20c.
1/2 inch Spray, No. 1.....	12c.	2 in. wire-lined suction.....	35c.

HOSE REELS.

Wood.....	\$ .75
Sylph.....	2.50

SHERMAN HOSE CLAMPS.

A screwdriver does the business.

Size, inches.....	1/2	3/4	1
Price, each.....	5c.	5c.	10c.
Size, inches.....	1 1/4	1 1/2	2
Price, each.....	15c.	20c.	25c.

BRASS HOSE COUPLINGS.

Size, inches.....	1/2	3/4	1
Price, each.....	15c.	15c.	25c.
Size, inches.....	1 1/2	2	
Price, each.....	75c.	\$1.00	

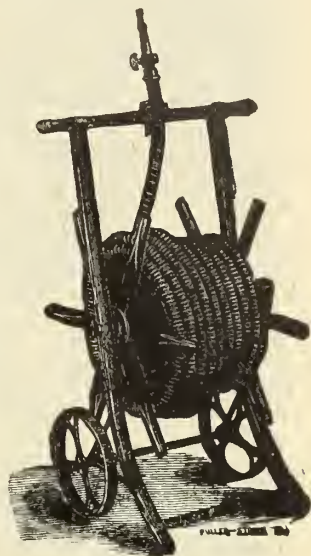
Mender Tubes.

Each.....	5c.
Per dozen.....	40c.

MYSTIC ADJUSTABLE HOSE NOZZLES.

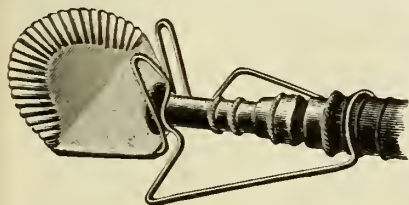
For throwing fine or coarse spray, or straight stream.

3/4-inch Rubber Hose....35c.



HOSE REELS.

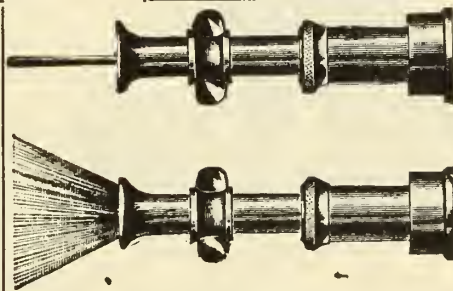
CRESCENT WAVE SPRINKLER



Price.....25c.

It is attachable to any nozzle. Can be operated from the hand. Supports nozzle in position when placed upon the ground. Distributes water evenly and in a showerlike manner.

Permits of full flow from the nozzle, thus lessening the liability of bursting the hose. May be shifted without closing hydrant. No treading on wet grass when shifting. Not necessary to detach when reeling hose. Durable and never out of order.



MYSTIC HOSE NOZZLES.

The Fairmount Weed Killer.

Will keep your paths and roadways clear of all organic growth, will clean and not injure marble or any kind of stone or gravel.

The best time to use it is about twenty-four hours after rain, so that it will penetrate to roots. The Weed Killer acts by destroying the seed germs and roots of plants. Park and cemetery superintendents and caretakers of estates should test its valuable merits without delay.

Please note the strength of the Fairmount when comparing it with the low-priced weed-killers that are offered.

THE FAIRMOUNT.

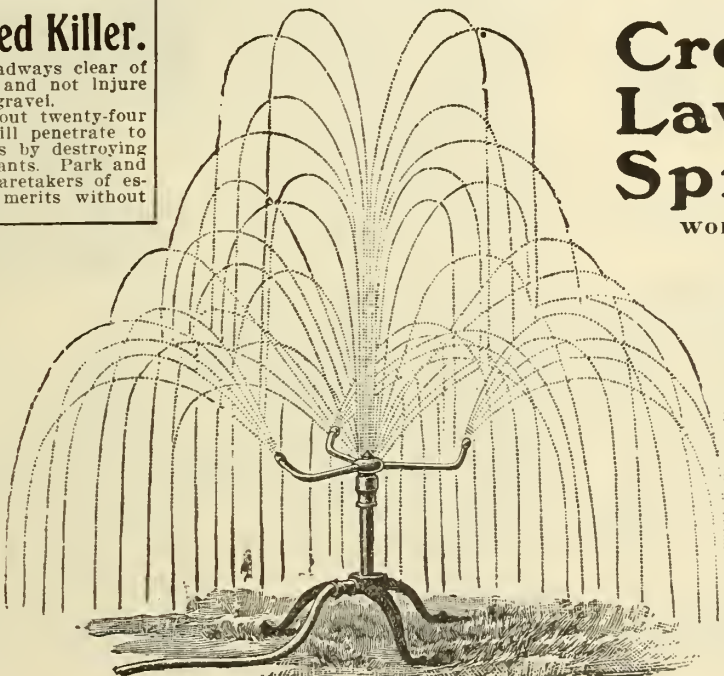
Is by far the cheapest. One gallon is sufficient to effectually cover from 100 to 150 square yards of surface.

It can be spread over the ground with an ordinary rose sprinkler.

Full directions on every container.

IT KILLS WEEDS SCIENTIFICALLY.

1/2 gallon tin makes 20 gallons treating liquid.....	\$0.75
1 gallon tin makes 40 gallons treating liquid.....	1.25
5 gallon keg makes 200 gallons treating liquid.....	6.00
25 gallon cask makes 1000 gallons treating liquid.....	25.00
50 gallon barrel makes 2000 gallons treating liquid.....	45.00



CRESCENT LAWN SPRINKLER.

Crescent Lawn Sprinkler.

WORKS BEAUTIFULLY.

This Sprinkler is compactly and strongly made with phosphor-bronze bearing, and will cover a surface 48 feet in diameter. As it has a free and unobstructed channel, there is no danger of clogging with dirty water, and therefore it fills the requirements of users of such articles better than the more expensive and larger sprinklers and will accomplish the same results. The top and arms are brass, full nickel-plated standard, the base and legs are iron, handsomely japanned.

PRICE.

12 inches high.....	\$1.50
12 inches high, on stand.....	2.00
24 inches high, on sled.....	2.25
36 inches high, on sled.....	2.50

C. B. G. SPRINKLER.

This is the cheapest and one of the most effective sprinklers made. The distribution of water is perfect. Price...20c. By mail...25c.



## ORDER BY NUMBERS.

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

0. **ABUTILON (A)**.—Fine mixed. Packet, 10 cents.
1. **AGERATUM, MIXED (A)**.—Suitable for beds, and especially nice for cut flowers and bouquets. Packet, 5 cents.
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., 25c. 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., 40c. Packet, 5c.
20. **AMARANTHUS, MIXED (A)**.—Showy blooming plants, with long racemes of curious looking flowers and brilliant foliage; half hardy annuals. Packet, 5 cents.
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, 5 cents.
24. **ANTIRRHINUM, DOUBLE MIXED (P)**.—One of the most useful and showy border plants. The recently improved varieties have large, finely shaped flowers of brilliant colors. Perennial. Packet, 5 cents.
25. **ASTERS (China) (A)**.—Choice mixed varieties. Well-known and beautiful flowers; should be in every garden. Packet, 5 cents.

## ASTERS.

26. **ASTER, GERMAN (A)**.—All colors and shades of the best German sorts. Sow seed early and transplant to rich soil. Packet, 5 cents.
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; 1½ to 2 feet. Packet, 10 cents.
28. **PRINCESS SNOWBALL (A)**.—This is an entirely distinct variety of Aster. The flowers are pure white, and are formed of short, thickly set imbricated petals, there being about 25 to 30 on a plant. Packet, 10 cents.
29. **MIGNON ASTER (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, 10 cents.
30. **VICTORIA ASTER (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. **COMET ASTER (A)**.—This class of Asters has long slender and curled petals, forming loose yet dense flowers of semi-globe shape, 3½ to 4½ inches in diameter, which resemble the Japanese Chrysanthemum. Packet, 10c.
32. **DWARF CHRYSANTHEMUM FLOWERED ASTER (A)**.—Grows 9 inches high; surpass all the dwarf varieties in size of flowers. Packet, 10c.
33. **SEMPLE'S BRANCHING ASTER (A)**.—A choice strain of American-grown Asters, which has, by careful selection, been brought to a high degree of excellence. Mixed Colors, 10c.
34. **SEMPLE'S BRANCHING ASTER (A) (White)**.—Very choice. Packet, 10c.
35. **BACHELOR'S BUTTON, or BLUE BOTTLE (A) (Centauria 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; two feet. Packet, 5 cents.
40. **DOUBLE BALSAMS, CAMELIA FLOWERED (A) (Lady Slipper, or For-Me-Not)**.—The well-known Balsams are 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. Packet, 5 cents.
41. **BALSAM, PERFECTION WHITE (A)**.—This resembles the mixed Balsams in shape, but the flowers are of a pure white, and is the variety usually grown by florists. Packet, 10 cents.
45. **CANDYTUFT MIXED (A)**.—Well-known favorite, hardy annuals; very pretty in beds or masses; useful for bouquets. Seeds may be sown in the fall for early flowering. Packet, 5 cents.
46. **CANDYTUFT, WHITE (A)**.—Treated and used same as the mixed. Packet, 5 cents.

The letter "A" means annual.  
The letter "P" means perennial.

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, 25 cents.
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, 5 cents.
55. **CANNA, MIXED (Extra Choice) (A)**.—The Cannas are desirable not only for the beauty of their spikes of scarlet 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, 5 cents.



33.—SEMPLE'S BRANCHING.

60. **CANTERBURY BELLS, SINGLE MIXED (Campanula) (A)**.—A highly attractive class of plants, combining richness of color with stately growth; valuable for beds and borders. Sow early, and transplant in light, rich soil. Packet, 5 cents.
61. **CANTERBURY BELLS, DOUBLE MIXED (P)**. Packet, 5 cents.
- CARNATION**.—(See Pinks) (P).
- CASTOR OIL BEAN**.—(See Ricinus) (A).
- 68a. **CENTAUREA GYMNOCARPA**.—Fine cut silver-gray foliage; 1½ feet. Packet, 5c. 1-4 oz., 25c.
68. **CENTAUREA CANDIDISSIMA**.—Silver white; leaves broadly cut. Packet, 5c. 1-4 oz., 25c.



## Flower Seeds That Grow.

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

69. **CENTROSEMA GRANDIFLORA** (P).—A perfectly hardy perennial vine of rare beauty, which blooms in July from seed sown in April, and bears in great profusion inverted pea-shaped flowers of various colors. **Packet, 5c.**

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.—Immense quantities are grown by French florists, and find a ready sale. It produces freely its white, star-like flowers under the most favorable conditions. **Packet, 10c.**

75. **CINERARIA** (Dusty Miller) (P).—Fine for bedding, ribbon beds and margins; prized for their beautiful, downy, silvery foliage; half hardy perennials; two feet. **Packet, 5c.**

76. **CINERARIA HYBRIDA** (P).—Large flowered prize varieties; very attractive, free blooming plants, producing large and brilliant flowers. **Packet, 25c. 5 for \$1.00.**

77. **CINERARIA HYBRIDADWARF** (P).—Large flowered, dwarf prize varieties; splendid strain. **Packet, 25c. 5 for \$1.00.**

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).—**Packet, 10c.**

89. **COLEUS** (A).—Very choice plants with richly colored foliage of maroon, green, crimson, yellow, etc. **Pkt., 25c.**

90. **CONVOLVULUS, 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.

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. **Packet, 5c. 1-4 oz., 40c.**

### 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 full 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. **Pkt. 10c. 1-4 oz. 50c.**

95. **COSMOS Mixed** (A). **5c. 1-4 oz., 20c. Oz. 50c.**

95a. **COSMOS, Pink** (A).—**5c.**



76.—CINERARIA HYBRIDA.

96. **CYCLAMEN—PERISICUM—GIGANTEUM, MIXED** (P).—Charming plants with beautiful foliage and rich colored, fragrant flowers. **Packet, 25c. 5 for \$1.00.**

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, 10 cents.**

98. **DAISY LONGFELLOW** (P).—This is a very pretty, large, double pink variety. **Packet, 10 cents.**

99. **DAISY, SNOWBALL** (P).—An unusually large-flowered variety, and produces very double, pure white flowers. **Packet, 10 cents.**

### 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 single flowers. **Packet, 5c.**

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

**DIANTHUS.**—(See Plaks).

100½. **DIANTHUS—ORIENTAL BEAUTIES** (P).—A magnificent strain of new large-flowering Dianthus from Japan. The colorings and markings are rich beyond description; very dainty and pretty with their charming ruffles and frills. Hardy and perpetual bloomers. **Packet, 10c.**

161. **ETERNAL FLOWER** (*Helichrysum*) (A).—These are very popular and desirable for winter decoration, bouquets, wreaths, etc. They should be cut when they come into full bloom, tied into bunches and dried in the shade with their heads downward. **Packet, 5c.**

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

105. **FORGET-ME-NOT** (*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. **Pkt., 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.

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

108. **GOSETIA—Finest Mixed** (A).—Fine, profuse blooming, hardy annuals. **Packet, 5c.**



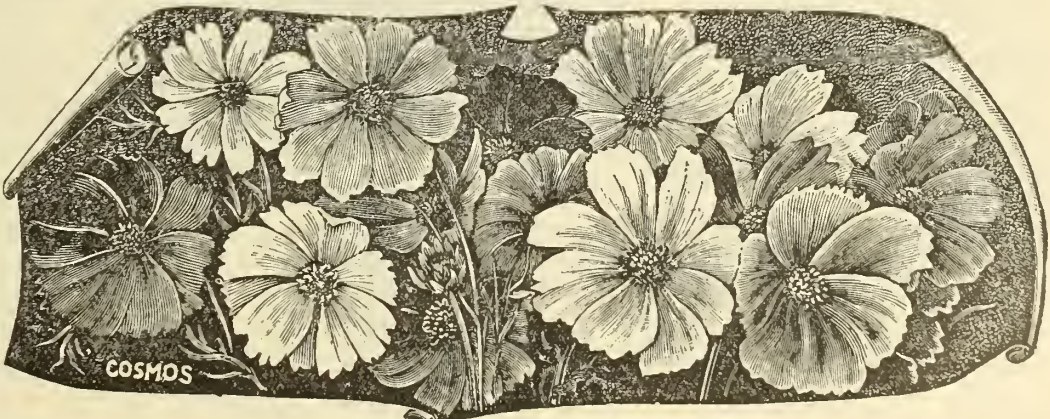
DAISY.

109. **GAILLARDIA** (A).—Very attractive plants, producing a profusion of bloom the entire summer and autumn. Half-hardy annuals. **Packet, 5 cents.**

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

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

111. **GLOXINIA** (A).—Large flowering, choice mixed. Produces in great profusion large bell-shaped flowers of the richest variety of colors. **Packet, 5 cents.**



COSMOS

95b. **COSMOS, White** (A).—**5c.**

95c. **COSMOS, Crimson** (A).—**5c.**

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

## SELECTED FLOWER SEEDS.

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

**112. HELIOTROPE (A).**—These are deliciously fragrant flowers, remaining in bloom a long time; fine for pot culture or bedding; half-hardy annuals. **Packet, 5c.**

**115. HOLLYHOCK, CHATERS SUPERB MIXED (P).**—This is one of the oldest inhabitants of our gardens; now ranks as one of the finest autumn flowers. **Packet, 5c.**

**116. HOLLYHOCK, CHATERS DOUBLE WHITE (P).**—Largely used by florists. **Packet, 10c.**

**119. LANTANA (A).**—Of compact growth and very profuse bloomers. **Packet, 5c.**

**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, 5 cents.**



HELIOTROPE.

FOUR O'CLOCK.

## 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 rockers. Bears a profusion of blue and white flowers. **Annuals.**

**122. MIXED VARIETIES.—5c. (A).**

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

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

**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 varled on the same plant. **2 feet. Packet, 5 cents.**

**131. MATTHIOLA BICORNIS (A).**—Very fragrant at night. **Packet, 5 cents.**

**133. MESEMBRYANTHEMUM CHRYSALINUM (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. It belongs to the half-hardy annuals. **Packet, 5c.**

**134. MIMULUS.**—The beautiful Monkey Flower. **Packet, 5c.**

## MIGNONETTE. (A)

(SELECTED STOCK.)

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

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

**137. MACHET MIGNONETTE.**—Well adapted for pot culture; dwarf pyramidal growth; bearing numerous flower stalks; one of the best. **Pkt., 10c. 1-4 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. **Pkt., 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. **Pkt., 10c. 1-4 Oz., 25c. Oz., 75c.**

**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. **Pkt., 5c. 1-4 Oz., 20c. Oz., 50c.**



DEFIANCE  
MIGNONETTE.

## NASTURTIUM. (A)

**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. **Pkt., 5c. Oz., 10c.**

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

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

**145. DWARF NASTURTIUM (Empress of India).**—Very dark foliage, with deep crimson flowers. **Pkt., 5c. Oz., 25c.**

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

**147. DWARF NASTURTIUM (King of Tom Thumb).**—Brilliant yellow flowers, blotched with maroon, measuring three inches across. **Pkt., 5c. Oz., 15c.**

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

**149. DWARF NASTURTIUM (Cloth of Gold).**—Golden Yellow foliage, light scarlet flowers. **Pkt., 5c. Oz., 20c.**

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

**151. CRYSTAL PALACE GEM.**—Sulphur, maroon spot. **Pkt., 5c. Oz., 15c.**

**TALL NASTURTIUM.**—(See 310).

## OXALIS—ANNUALS.

**153. OXALIS.**—Pretty little half-trailing annuals for hanging baskets. Mixed annual sorts. **Packet, 10 cents.**

## PANSIES—ANNUALS.

OUR STRAIN OF PANSIES IS THE EQUAL OF ANY.

**156. PANSY GIANT TRIMARDEAU.** Remarkable for the extra large size of the flower and an endless variety of beautiful shades. **Pkt., 10c. 1-8 Oz., 40c.**



**158. PANSY. (Bngnot'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, 25 cents.**

**155. PANSY 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 inches. **Pkt., 5c. 1-8 Oz., 35c.**

**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 for the past two years. **Pkt., 15c. Two Pkts., 25c. 1-8 Oz., 60c.**

**162. PASSION FLOWER (Southern Beauty).**—A most interesting and well-known order of climbers, bearing singularly beautiful flowers. **Packet, 10 cents. (A) Annual. (P) Perennial.**

THE BEST FLOWER SEEDS.



PETUNIAS.

ANNUALS.

- 165. 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, 25 cents.
- 168. PETUNIA—Double-Fringed Mixed.—The flowers of this sort being double, together with being fringed, are very beautiful. Packet, 25c. Plants of Double Petunia furnished on application. 10c. each. \$1.00 doz.

PHLOX DRUMMONDII.

- 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, 5 cents.

- 167. PHLOX DRUMMONDII—(Nina 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, 10 cents.

PINKS. (P)

- 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, 10 cents.

- 181. PINK, CARNATION (Riviera Market, or Gil- laud).—This is the only variety that will produce flowers the first season. The mixture we offer contains a magnificent variety of colors and shades, having among them flowers of canary yellow, and also striped yellow. They will thrive either in open ground or pots. Packet, 25 cents.

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

- 182. PINK CARNATION (Marguerite) (P).—Will produce flowers in a few weeks from seed. Profuse bloomers, producing very double flowers of all shades of red, pink, white and variegated. Will bloom all summer until frost or indoors in winter in pots. Packet, 10 cents.

- 185. PINK—CHINA (Dianthus Chinnensis) (P).—Free bloomers, and a general favorite for bouquets; also a useful bedding plant. Packet, 5 cents.

- 188. PINK—HEDDEWIGH (P).—Beautiful double flowers in a great variety of colors, with fringed white edges. Packet, 5 cents.

- 189. PINK—JAPAN (P).—Beautiful double flowers, mixed, of various colors, with the outer edges fringed and nearly white. Packet, 10 cents.

- 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, 5 cents.

- 196. DOUBLE PORTULACA (A). Packet, 10 cents.



CARNATION.

- 200. POPPY-CARNATION (Papaver) (A).—A showy and easily cultivated hardy annual, with large brilliant colored flowers, growing freely in any garden soil. Pkt., 5c.
- 201. POPPY—PEONY FLOWERED (A).—A magnificent species, large, showy, double globule flowers, resembling Peonies in shape. Packet, 5 cents.
- 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, 5 cents.



TULIP POPPY.

- 203. TULIP POPPY (A).—A magnificent species from Armenia. The plants attain a height of 14 to 16 inches, and produce from about 50 to 60 flowers of the brightest scarlet. Packet, 5 cents.
- 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, 5 cents.
- 205. POPPY—IRRESISTIBLE (A).—A rare and beautiful Poppy, with immense flowers. Color, an exquisite rose. Pkt., 5c.
- 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, 10 cents.
- 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, CAMBODGIENSIS (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, 5 cents.
- 213. SCABIOSA—GRANDIFLORA (P).—A wonderful improvement over the old variety; bears beautifully formed flowers three inches in diameter. Pkt., 10c.
- 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. 3 feet. Pkt., 5c. ¼ oz., 75c.
- 216. SCARLET SAGE—CLARA BEDMAN (Bonfire) (A).—Dwarf, green foliage, flowers close to the ground. The finest Salvia ever introduced. Packet, 5c. ¼ oz., 75c.

(A) Annual. (P) Perennial.

FOR PLANTS, SEE PLANT PAGES.

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



SWEET WILLIAM.

**231. STOCKS — SNOWFLAKE IMPROVED.**—A beautiful dwarf-growing variety; very large, double, snow-white flowers. Our seed of this variety is grown by a specialist, and will produce a large percentage of double flowers. Packet, 10c.

**235. SUNFLOWER (Helianthus) (A).**—Remarkable for the stately growth, size and brilliancy of their flowers, making a very good effect among shrubbery and for screens. The seed is also good for feeding poultry. Packet, 5c.

**237. SWEET ROCKET (Hesperis) (A).**—Very pleasing, early spring flowering, profuse blooming plants, with fragrant flowers, growing freely in any light, rich soil. Packet, 5c.

**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. Ounce, \$1.

**250. VINCA ROSA (A).**—Rose with dark eye. Packet, 5c.

**251. VINCA ALBA (A).**—White, with crimson eye. Pkt. 5c.

**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.

**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, 5c.

**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, 5c.

**260. ZINNIA—DOUBLE POMPON (A).**—Long, cone-shaped flowers, very fine. Packet, 5c.

**261. ZINNIA—ZEBRA FLOWERED (A).**—Packet, 5c.

### GENERAL LIST OF CLIMBERS.

AMPELOPSIS VEITCHII also can be furnished as a plant. (See Nursery pages.)

**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, \$1.00.

**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.

**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, 5c.

**SNAP DRAGON.** (See Antirrhinum.) Packet, 5c.

**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.

**275. CANARY BIRD FLOWER (Peregrinum) (A).**—With yellow, canary-like flowers; very ornamental and beautiful foliage; half-hardy annual. Packet, 5c.

**276. COBEA 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.

**285. MIXED GOURD (Cucurbita) (A).**—Rapid growing interesting plants, with ornamental foliage and varieties of singular-shaped fruit; annual. Packet, 5c.

**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.

**301. NEW BRAZILIAN MORNING GLORY.**—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. Some blossoms are striped and dotted with blue or red on white or lemon-yellow ground; others clouded with blue and red; in fact, one may expect to find some new and exquisitely beautiful markings every morning. 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. Vines grow 30 to 40 feet high. Packet, 10c.

**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..... 5c.

**310. TALL NASTURTIUM (Tropaeolum Major.)**

Elegant, profuse flowering plants, constantly growing in favor for verandas, trellis, etc. The seed pods can be gathered while green and tender for picking.

Packet..... 5c.

Ounce..... 10c

**320.—SCARLET RUNNERS.**

Very handsome climbing Beans, with bright scarlet flowers.

Packet..... 5c.

**326.—SIMLAX.** Charming climber for greenhouse or window gardens.

Packet..... 5c.

½ Ounce..... 25c.

Ounce..... 40c.



JAPANESE MORNING GLORY.

# SWEET PEAS.

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

## 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.

## Classified Varieties as to Color.

If you want white, select from numbers 356, 373, 387, 402. Pinks, 350, 371, 391, 420, 427. Orange and salmon, 395, 406. Scarlet, 377, 386. Maroon, 360, 423. Yellow, 400. Striped varieties, 353, 411, 424. Pink or red, with white wings, 357, 358.

**350. ALICE ECKFORD.**—Standard, rich, creamy, tinted pale pink. Wings pure white. Ounce, 5c. ¼ pound, 15c.

**362. AMERICA.**—Large, bold flower; white striped with blood-red. Ounce, 5c. ¼ pound, 15c.

**351. APPLE BLOSSOM.**—Bright rose and pink; beautiful. Ounce, 5c. ¼ pound, 15c.

**352. AURORA.**—The color effect is gorgeous; both standard and wings are flaked and striped on a white ground with bright orange salmon. Ounce, 5c. ¼ pound, 15c.

**363. BLACK KNIGHT.**—Extra large, well-expanded flowers of glossy maroon. Ounce, 5c. ¼ pound, 15c.

**356. BLANCHE BURPEE.**—Pure white; very large flower. Ounce, 5c. ¼ pound, 15c.

**357. BLANCHE FERRY.**—Popular color, standard brightest pink; keel and wings white. Ounce, 5c. ¼ pound, 15c.

**358. BLANCHE FERRY.**—Extra early. Oz., 5c. ¼ lb., 15c.

**359. BLUSHING BEAUTY.**—Flowers of largest expanded form, perfect in shape, and of very good substance. Color a delicate, soft pink. Ounce, 5c. ¼ pound, 15c.

**360. BOREATON.**—A very fine dark Pea, with bold, stout flowers; color deep maroon. Ounce, 5c. ¼ pound, 15c.

**361. BUTTERFLY.**—New, and ranks among the very best of this unrivaled class of plants. Color lavender blue, shading into white on the lower petals. Ounce, 5c. ¼ pound, 15c.

**364. CAPTAIN OF THE BLUES.**—Large shell-formed flowers, purplish blue; wings deep blue. Ounce, 5c. ¼ pound, 15c.

**365. COQUETTE.**—Rosy cream standard; cream wings. Ounce, 5c. ¼ pound, 15c.

**366. COUNTESS OF RADNOR.**—Delicate lavender, wings delicately striped with rose. Ounce, 5c. ¼ pound, 15c.

**371. ELIZA ECKFORD.**—Standard rose, wings delicately striped with rose. Ounce, 5c. ¼ pound, 15c.

**372. EMILY ECKFORD.**—Standard heliotrope, suffused with blue; wings deep blue. Ounce, 5c. ¼ pound, 15c.

**373. EMILY HENDERSON.**—Very early; color pure white; fragrance most delicious. The plants are robust, branchy, of compact habit; flowers large, broad and round, and its abundance of bloom is phenomenal. Ounce, 5c. ¼ pound, 15c.

**374. FIREFLY.**—Intense, glowing crimson. Oz., 5c. ¼ lb., 15c.

**381. GAJETTY.**—Standards white, striped and flaked with rosy lilac; wings delicate bluish. Ounce, 5c. ¼ pound, 15c.

**367. GORGEOUS.**—Flowers very large; coloring rich, glowing and effective. Ounce, 5c. ¼ pound, 15c.

**380. GRAY FRIAR.**—Large, shell-shaped flower, white clouded, and minutely dotted with reddish lilac. Ounce, 5c. ¼ pound, 15c.

**382. HER MAJESTY.**—Beautiful, soft, rosy pink. Ounce, 5c. ¼ pound, 15c.

**385. INDIGO KING.**—A dark maroon standard, and clear indigo blue wings. Ounce, 5c. ¼ pound, 15c.

**386. INVINCIBLE SCARLET.**—Flowers of intense and brilliant scarlet pink, of the largest size. Ounce, 5c. ¼ pound, 15c.

**391. KATHERINE TRACEY.**—Soft, brilliant pink. Ounce, 5c. ¼ pound, 15c.

**394. LADY BEACONSFIELD.**—The standards are of light salmon pink, wings pale primrose yellow. Ounce, 5c. ¼ pound, 15c.

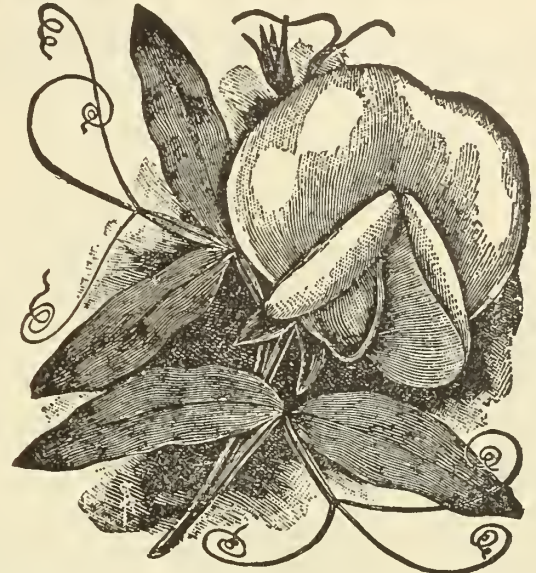
**395. LADY PENZANCE.**—One of the most beautiful of Eckford's introductions. The standard is a beautiful laced pink, touching orange, while the wings are a darker and purer pink. Ounce, 5c. ¼ pound, 15c.

**396. LOTTIE ECKFORD.**—New and a free bloomer, color lavender, shaded with pink and white. Very handsome. Ounce, 5c. ¼ pound, 15c.

**397. LOTTIE HUTCHINS.**—Daintily flaked with pink on cream ground, making a rich and lovely effect. The flowers are of well-expanded grandiflora type, large in size and finely formed, borne on heavy, substantial stems.

**398. LOVELY.**—The most beautiful soft-shell pink; grand flowers of large size.

**399. MARS.**—Bright, fiery crimson, deepening with age; a large, round, expanded standard.



**400. MRS. ECKFORD.**—Color a peculiarly delicate shaded primrose yellow. Decidedly pretty.

**401. MRS. GLADSTONE.**—On opening, the flowers are buff and soft pink, changing to a beautiful pale bluish. Standard pink, deepening in color at the base, and wings flesh-tinted.

**402. MRS. SANKEY.**—Black seeded. Large white flower, changing to bluish.

**406. ORANGE PRINCE.**—Bright orange pink, flush scarlet; wings of rich rose, veined with pink.

**408. PRIMA DONNA.**—Lovely soft rose pink, of large size and fine form; a gem.

**409. PRIMROSE.**—Distinct as the nearest approach to yellow in Sweet Peas. Standard and wings of a pale primrose yellow color.

**410. PRINCESS BEATRICE.**—Flowers of a clear and beautiful carmine rose, slightly shaded.

**411. PRINCESS OF WALES.**—Color, white ground, shaded and tinged with mauve.

**412. PRINCESS VICTORIA.**—Standard, dark cherry; wings, mauve pink, and slight lines of rose.

**416. QUEEN OF THE ISLES.**—Scarlet mottled and flaked with purple and white.

**419. RED RIDING HOOD.**—Standard and wings are a rosy pink, shading to bluish white at calyx.

**420. ROYAL ROBE.**—Standards a rich, but delicate pink, wings a soft bluish pink.

**422. SHAHZADA.**—Flowers of large size and fine, expanded form; coloring rich dark maroon, with a tint of purple in the center of the standard and the inner portion of the wings.

**423. STANLEY, OR BLACK KNIGHT.**—A deep maroon; a large and very handsome flower of the finest form and abundance.

**424. THE SENATOR.**—Large flowers, shaded chocolate and bright brown, and striped on a creamy-white ground-color; mottled and blotched in every conceivable manner.

**427. VENUS.**—Salmon buff; the standards delicately shaded with rosy pink. Prices on above; Oz., 5c. ¼ lb., 15c.

**430. G. & T. CO.'S EXTRA FINE MIXED.**—This is a splendid mixture of our own, which includes nearly all the above varieties. Ounce, 5c. ¼ pound, 15c. Pound, 35c.

**431. ECKFORD'S LARGE FLOWERING MIXED SWEET PEAS.**—Contains some of each of our entire list of Eckford's varieties. Ounce, 5c. ¼ pound, 15c. Pound, 35c.

## CUPID DWARF SWEET PEAS.

**435. PINK CUPID.**—Standard bright rose pink; wings either pure white or bluish. The seed is black and germinates readily; a thrifty grower and continuous bloomer. Pkt., 5c. ¼ oz., 20c.

**436. WHITE CUPID.**—Pure white flowers. Pkt., 5c. Oz., 20c.

**437. BEAUTY CUPID.**—Packet, 5c. Ounce, 20c.

**438. PRIMROSE CUPID.**—Packet, 5c. Ounce, 20c.

**439. ALICE ECKFORD.**—Packet, 5c. Ounce, 20c.

**PLANT DEPARTMENT**  
**VEGETABLE PLANTS.**

**WE** are now prepared to furnish all kinds of Vegetable and Flowering Plants at short notice. All of our plants are grown specially for us, and we are in a position to offer our patrons **THE MOST COMPLETE ASSORTMENT TO BE FOUND IN THIS COUNTRY IN ANY ONE ESTABLISHMENT, AND AT PRICES AS LOW AS SAME QUALITY OF GOODS CAN BE OBTAINED ANYWHERE.** Want of space forbids naming all varieties. Cash must accompany all orders. We do not ship plants C. O. D.

**BET.**—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; \$2.50 per 1000. By express not prepaid. Add 10c. per 100 if by mail.  
**CABBAGE.**—All the leading varieties. From December 1st to May 1st frame grown. 40c. per 100; \$1.25 per 500; \$2.00 per 1000. Field grown, from May 1st to December 1st. 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; \$4.00 per 1000. By express not prepaid. Add 10c. per 100 if by mail.  
**CELERY.**—All the leading varieties. 40c. per 100; \$1.25 per 500; \$2.00 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—50c. per dozen; \$4.00 per 100. By express not prepaid. Add 10c. per 100 if by mail.

**KOHL RABI.**—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.**—20c. per dozen; 50c. per 100; \$3.00 per 1000. By express not prepaid. Add 10c. per 100 if by mail.  
**SWEET POTATO.**—50c. per 100; \$1.50 per 500; \$2.75 per 1000. By express not prepaid. Add 10c. per 100 if by mail.  
**TOMATO.**—All the leading varieties. Ready February 1st, small plants for transplanting—\$1.50 per 1000. Ready April 1st, cold frame plants—40c. per 100; \$1.25 per 500; \$2.00 per 1000. By express not prepaid. Add 10c. per 100 if by mail. Special prices in quantities. Cash must accompany all orders for plants.

**ALL OF ABOVE SEED BED PLANTS.**

**GREENHOUSE POTTED PLANTS**

**Prices on 100 and 1000 By Express Not Prepaid.**

Our collection of Greenhouse Potted Plants has been very carefully revised, and the varieties have been selected with great care, cutting out those of lesser value. Our Cannas, Chrysanthemums, Dahlias, Geraniums, Roses, etc., may appear small, but we wish to present to our friends a condensed list of nothing but the best, and avoiding a long list which only tends to confuse the buyer. Other varieties, however, possess merit, and a further descriptive list can be had on application. Will state in passing that we can furnish most anything in this line.



ABUTILON SOUV. DE BONN.

**ABUTILONS.**  
(FLOWERING MAPLE.)

A Beautiful Plant for Bedding and Window Garden.

**SAVITZII.**—A Japanese variety that is bound to become a popular decorating plant, as its perfectly variegated green and white foliage contrasts nicely with any other plants with which it may be placed. The growth is dwarf and very compact, making a fine pot plant for house culture; best for bedding.

**SOUVENIR DE BONN (See Cut).**—Beautifully variegated leaves of good size, regularly and evenly marked with white and green; orange-colored flowers.

Prices of Any of the Above Plants:

Each.....10c. Per dozen.....\$1.00  
Per 100, by express not prepaid..... 6.00

**ACALYPHA.**

**MACAPEANA.**—A handsome variegated foliage bedding plant, which may be used in connection with Coleus, Crotons or other foliage plants for sub-tropical bedding. 10c. each.

**SANDERI (Comet Plant).**—A distinct and novel flowering plant of strong, free growth, with large dark green foliage, from the axils of which thick ropelike spikes of velvety-crimson flowers are gracefully suspended. 10c. each.

**AGERATUM.**

STELLA GURNEY.

Dwarf Blue.....75c. dozen.  
Dwarf White.....75c. dozen.

**ALTERNANTHERA.**

A beautiful class of dwarf plants growing only 6 inches high, admirably adapted for forming letters, ribbon lines, edgings or bed. Can be cut with shears, and like long grass grows thicker and stronger. Initials marked on the lawn with these plants is very pleasing.

**AUREA NANA.**—Bright golden yellow.  
**BRILLIANTISUM.**—New. Brilliant scarlet; when worked in the lawn or with other plants the effect is very striking.  
**PARONYCHOIDES MAJOR.**—The best red.  
**ROSEA NANA.**—Rosy crimson.  
**VERSICOLOR.**—Chocolate, green and red.  
 Plants, each 10c. Per dozen, \$1.00  
 By express, not prepaid, per 100, \$6.00.



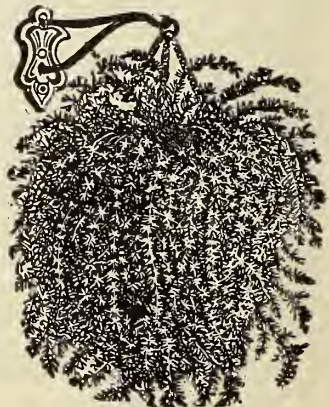
ACALYPHA MACAPEANA.

**ASPARAGUS PLUMOSUS NANUS.**

SPRENGERI.

A most desirable species, especially useful to grow as a pot plant for decorative purposes or for planting in suspended baskets; the fronds are frequently 4 feet long, of a rich shade of green, and most useful for cutting; makes an excellent house plant.

10c. each.



ASPARAGUS SPRENGERI.

# 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.

## FLOWERING VARIETIES.

Each.....15c Per dozen.....\$1.50  
**ALBA PICTA.**—Dark green leaves, lance-shaped, silvery spots. White flowers.  
**ARGENTEA GUTTATA.**—Foliage of rich green, spotted with silver.  
**GLOIRE DU MONNET.**—Flowers very double, opening a bright carmine, changing to a clear pink as it expands.  
**HAAGEANA.**—One of the finest Begonias yet introduced. The flowers which are of the largest size, are of a creamy white, with just sufficient pink to give them a bright, cheerful glow; the foliage is a bronzy-green above and red below.  
**NANCY.**—Double, tender rose, stamens chrome yellow.  
**TRIUMPH DE LORRAINE.**—Petals nicely imbricated; color on opening a bright scarlet, changing to cherry-carmine when fully opened.

# BEGONIA REX.

(ORNAMENTAL-LEAVED VARIETIES.)

Many improvements have been made in recent years in this useful house plant. 15c. each. \$1.50 doz.

**ERDODY.**—A very striking variety of free, thrifty growth with a very pronounced double whorl on the leaf, one above the other. The texture is fine and velvety and the shading beautiful, showing a nice silver zone.

**LOUISE CLOSSON.**—One of the richest and most beautiful of the Rex family. The coloring is simply magnificent. Centre of leaf deep bronze, with a broad band of silvery rose, edged bronze and spotted rose.

## AND OTHER FANCY VARIETIES.



SPECIMEN PLANT, ORNAMENTAL-LEAVED BEGONIA.



SPECIMEN PLANT FLOWERING BEGONIA.

# 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. Useful for garden, greenhouse or sitting-room.

**BELLE OF BALTIMORE.**—Bronze foliage, red-flowered; 3½ feet.  
**DUKE OF MARLBOROUGH.**—Beautiful crimson maroon; the largest Canna grown. A sturdy erect grower, with fine metallic green foliage; 4 feet.

**FLORENCE VAUGHAN.**—The finest yellow-spotted variety yet sent out. The foliage is massive and of rich green color; 4 feet.

**LEONARD VAUGHAN.**—Foliage bronze, large trusses of orange-scarlet flowers; 4½ feet.

**MADAME CROZY.**—Flowers of dazzling crimson scarlet, bordered with golden yellow. A marvelous and rich combination of colors. The plant is of vigorous growth, yet very dwarf in habit, rarely exceeding 4 feet in height.

**MOUNT BLANC.**—A great acquisition, almost pure white, large well-shaped flowers, produced in great profusion; 3½ feet high. An improvement over Alsace.

**ALEMANIA.**—Exceptionally large flowers, frequently measuring 6½ inches across, the upper petals salmon, with broad border and markings of golden yellow, while the lower petals are dark salmon marked with yellow in the centre; foliage dark green; 6 feet.

**ALPHONSE BOUVIER.**—This is probably the grandest and most effective crimson Canna grown. Height, 6 feet.

**AUSTRIA.**—Is a counterpart of Italia except in the color of its flowers, which are of a pure canary yellow, with but a few traces of small reddish-brown spots in the centre of the two inside petals; 6 feet.

**SECRETAIRE CHABANNE.**—Salmon-colored; rich and pleasing. Height, about 4 feet.

**EGANDALE.**—Fine dark variety; flowers of a soft currant red, 3½ ft.

**ITALIA.**—Is of a bright orange-scarlet, with a very broad yellow golden border. The flowers, which are produced on massive stems, about 16 inches long, are set well above the foliage, which is large and heavy,

similar to that of the Musa Esente; 6 feet.

## QUEEN CHARLOTTE.

This new German sort is one of the handsomest scarlet varieties ever introduced, having a distinct golden belt around each petal; 3½ ft.

## CHARLES HENDERSON.

Probably the most popular crimson Canna in cultivation, of uniform, compact habit, rarely exceeding 3½ feet in height.

## Mlle. BERAT.

The nearest approach to a pink in a first-class bedder. Height, 4 feet.



**BEAUTE POITEVINE.**—A very dark crimson variety, with dark, metallic green foliage, and deep, rich, crimson flowers; 3½ feet.

**NICE POT-GROWN PLANTS,** ready for immediate effect. 15c. each. \$1.50 dozen. \$10.00 per 100. By express, not prepaid,

## DRY OR DORMANT ROOTS.

Each.....5c. Per dozen.....35c.



## CHRYSANTHEMUMS

### Large Show Varieties.

Prices, Except Where Otherwise Noted:

Each, 15c.; per dozen, \$1.00; per 100, \$5.00.  
One Each of the 25 Varieties for \$1.25, by Express Not Prepaid.

**COL. D. APPLETON.**—Large pure yellow.  
**CULLINGFORDI.**—A fine shade of crimson.  
**EUGENE DAILLEDOUZE.**—Bright, clear yellow; extra.

**GEORGE W. CHILDS.**—The best deep self-colored variety in existence.

**GLORY OF THE PACIFIC.**—A magnificent extra early pink.

**GOLDEN WEDDING.**—The grandest golden yellow ever introduced.

**IVORY.**—Snowy white; perfect form and early.

**IVORY PINK.**—Shell pink.

**J. H. WOODFORD.**—Shell or mermaid pink, strong stem, fine foliage.

**MAJOR BONNAFFON.**—One of the best yellows; color pink, almost rose.

**MAUD DEAN.**—An extra large-flowered variety; color pink, almost rose.

**MINERVA.**—Large, vivid, golden yellow.

**MINNIE WANAMAKER.**—Creamy white, of very large size, and so much in-curved as to resemble a white ball.

**MODESTO.**—One of the largest and prettiest yellow varieties.

**MRS. F. BERGMANN.**—One of the earliest and best whites.

**MRS. H. WEEKS.**—Japanese in-curved, snow white.

**MRS. JEROME JONES.**—Large, creamy white.

**MRS. J. I. WHILDIN.**—A handsome light yellow.

**MRS. JOHN GLESSNER.**—Large, light yellow, in-curved, late.

**MRS. O. P. BASSETT.**—Japanese in-curved, clear, light yellow.

**MRS. R. McARTHUR.**—Magnificent; crystal white.

**NIVEUS.**—A grand, snow-white variety.

**ROSE OWEN.**—A fine, early, light pink.

**TIMOTHY EATON.**—Large, pure white.

**WM. H. LINCOLN.**—A magnificent golden yellow variety.

### Hardy Pomponé Chrysanthemums

Price, each 10c. Per dozen, 75c.  
Per hundred, \$5.00.

One of each of the 27 varieties for \$1.50, by Express not prepaid.

THESE beautiful small-flowered varieties are certain to become popular for outdoor bedding purposes. They are absolutely hardy, and produce an abundant profusion of blooms, and the plants lend a coloration to the garden just at a time when other plants have been destroyed by frost and are looking their worst. Frost does not materially affect the flowering, and it will frequently happen that an armful of flowers can be cut after a sharp frost. The collection we offer embraces all the leading colors, and, with but a slight covering of leaves or coarse stable litter during the winter, will take care of themselves after once planted.

**ANNA MARY.**—Creamy white.

**BLUSHING BRIDE.**—Early, light pink.

**CHIVVER.**—Small, white.

**CLIMAX.**—Deep rosy pink.

**DINIZULU.**—Deep pink.

**EAGLE D'OR.**—Good yellow.

**EDNA.**—Pink, light centre.

**GLOBE D'OR.**—Light yellow.

**GOLDEN FLEECE.**—Large, lemon yellow.

**GOLDEN PHEASANT.**—Golden yellow.

**GOLD FINCH.**—Yellow, shading bronze.

**IVANHOE.**—Deep pink, tipped white.

**JULIA LAGRAVERE.**—Dark bronze.

**LABANAH.**—Tall, white.

**LADYSMITH.**—Rosy lake.

**LITTLE PET.**—Rose.

**MRS. VINCENT.**—Large, deep rosy pink.

**NAOMI.**—Delicate blush.

**NELLIE BLY.**—Light pink.

**PRESIDENT.**—Dark pink.

**PRINCE OF WALES.**—Best white.

**QUEEN OF HUL.**—Tall, deep pink.

**RHODA.**—Delicate pink.

**SOUVE McLANE.**—Good white.

**ST. ILLORIA.**—Silver pink.

**TIBER.**—Early, yellow.

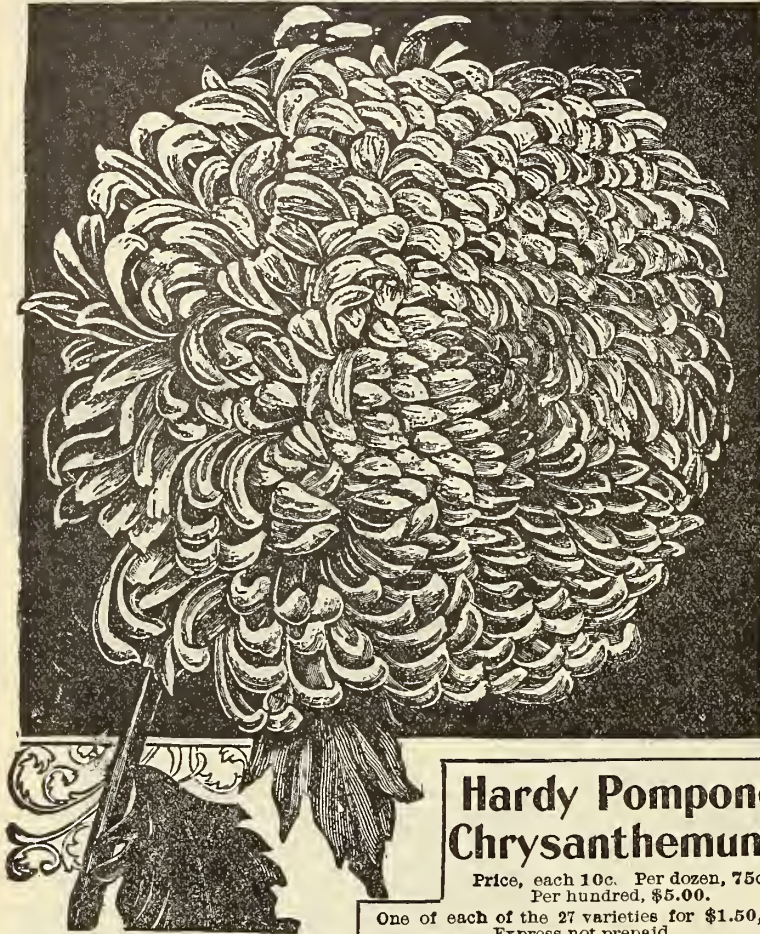
**TISRI.**—Deep pink.

### COLEUS.

FIFTEEN CHOICE VARIETIES.

10c. each; 75c. per dozen; \$4.00 per 100, by express, not prepaid.

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.





## DAHLIAS.

POT GROWN.

Each 10c. Per dozen \$1.00  
Per hundred \$6.00  
By express not prepaid.

CAN FURNISH DAHLIAS  
IN BULBS.

Price, per clump, 10c. Per dozen,  
\$1.00.  
Only small bulbs can  
be mailed. Price, 10c.  
each.



SPECIMEN  
CACTUS  
VARIETY.

### Cactus Varieties.

- ARACHNE.—Creamy white, petals edged crimson.
  - AUSTIN CANNELL.—Deep crimson rose.
  - CHAS. WOODBRIDGE.—Rich crimson purple.
  - COUNTRESS OF LONSDALE.—Beautiful salmon pink, large and full to the centre, a very profuse bloomer.
  - EARL PEMBROKE.—Bright plum; petals long and pointed; regular form and finish.
  - GEISELLER.—Rosy crimson, petals finely quilled. A most profuse bloomer.
  - GLORIOSA.—Vivid carmine crimson, extremely beautiful.
  - HOHENZOLLERN.—Rich orange bronzo red, large flowers and robust grower.
  - ISLAND QUEEN.—Soft lavender pink, a true cactus variety.
  - JOHN H. ROACH.—A beautiful light lemon yellow, of fine form.
  - KYNES, WHITE.—Large pure white, long petals of fine form.
  - STRAHLEIN KRONE (Rayed Crown).—Intense cardinal red, very beautiful.
- A more complete descriptive list can be had on application which will include the 20th Century, the fine new single, and the Collarette,

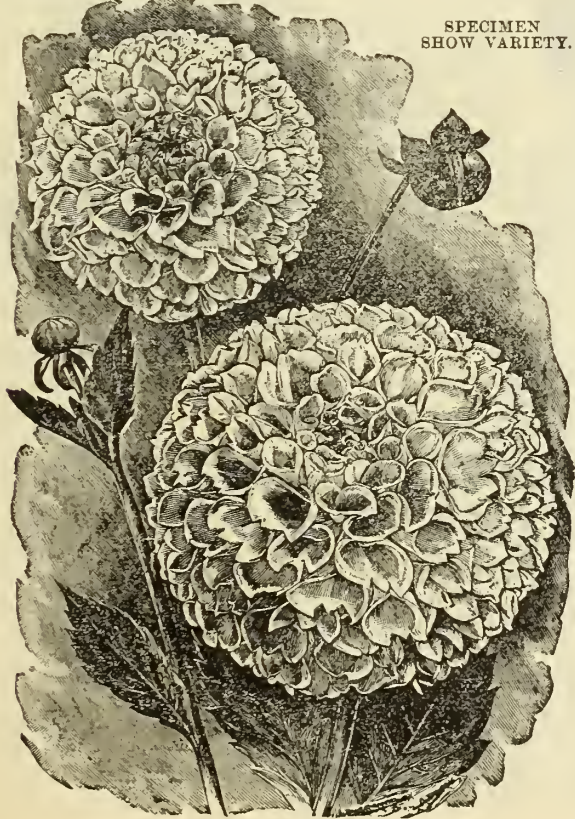


SPECIMEN DECORATIVE  
VARIETY

## DECORATIVE VARIETIES.

- ADMIRAL DEWEY.—Brilliant imperial purple.
- C. W. BRUTON.—Canary yellow of immense size, very vigorous grower, free bloomer.
- EUREKA.—Deep rose; fine regular form quilled petals.
- GRAND DUKE ALEXIS.—Magnificent flower of large size; pure white, delicately tinged pale lavender; quilled petals; finest form and finish.
- HENRY PATRICK.—Superb; large pure white; petals broad and pointed; long stems; one of the finest.
- JOHN ELITCH.—Beautiful dark rich maroon, robust grower; long stems.
- KING OF CACTUS.—Rich, soft glowing crimson; petals very long and broad; large size and perfect form.
- LEMON GIANT.—Immense size; pure lemon yellow.
- LINDHURST.—Vivid scarlet; invaluable for cutting; long stems.
- NYMPHEA.—Delicately beautiful; shrimp pink; lighter toward centre; splendid for cutting.
- WM. AGNEW.—Immense size; intense dazzling scarlet crimson of perfect form; a very profuse bloomer and a great favorite.
- WILHELM MILLER.—Brilliant purple, very free, distinct color.

SPECIMEN  
SHOW VARIETY.



### FANCY SHOW VARIETIES.

- 10c. each. \$1.00 per dozen.
- A. D. LIVONII.—Sea-shell pink.
  - ARABELLA.—Sulphur-tipped pink.
  - ELECTRIC.—Pinkish lilac.
  - FRANK SMITH.—Rich dark-purplish maroon, tipped pinkish white.
  - JOHN KYNES.—Yellow-tipped scarlet.
  - KEystone.—Pink, striped with crimson; very large.
  - LE PHAR.—Scarlet.
  - MAID OF KENT.—Variegated crimson and-white.
  - M. E. HALLOCH.—Clear yellow.
  - MISS MAY LOMAS.—White, tipped with lavender.
  - MIE. ZELLER.—Yellow, edged with pink.
  - MRS. GLADSTONE.—Delicate shell pink.
  - MRS. STANCOMBE.—Sraw, suffused amber, striped red.
  - NEGRO.—Dark maroon, with fringed petals tipped with white.
  - ORANGE KING.—Brilliant orange.
  - PURITY.—Large pure white.
  - RUBY QUEEN.—Clear ruby red.

### POMPON VARIETIES.

- Each, 15c. Per dozen, \$1.00. Per 100, \$4.00. By express, not prepaid.
- ALLEN MURRAY.—Soft pink, tipped deep pink.
  - CATHERINE.—Fine Yellow.
  - ELFIN.—Pale primrose, changing to cream white.
  - FAIRY QUEEN.—Light sulphur yellow, edged with deep pink.
  - LELIA.—Flesh mottled, deep crimson.
  - LITTLE PRINCE.—Red tipped, mottled deep crimson.
  - PSYCHE.—Pale yellow, edged with pink.
  - SUNSHINE.—Scarlet.



## Fern Ball "Mikado"

### THE BEST HOUSE PLANT NOVELTY IN TEN YEARS.

THESE balls consist of Fern roots about the size of a pencil, woven outside and around a ball of moss. These roots produce beautiful sprays of Ferns from eyes or buds at nearly every inch of their length. Thus the whole surface of the ball soon becomes covered with Fern sprays. They may be suspended in any part of the room or grown on a stand or table. To use in Fern dish, cut ball in halves, placing flat side down, thus getting two dishes of beautiful Ferns.

**PRICES.**—Dormant Balls, first size, 30c. each, three for 75c.; large size, 35c. each, three for \$1. By mail, 10c. extra.



## FUCHSIAS.

Each.....10c. Per dozen....\$1.00

- BLACK PRINCE.**—Bright waxy carmine; pink corolla.  
**GLOIRE DE MARCHES.**—Grand double white.  
**ROSAINS PATRI.**—Large white corolla.  
**SPECIOSA.**—Very free.

## 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. 10c. each. \$1.00 per dozen.

- 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.  
**JAVOI.**—Tall; clear pure white, yellow center.  
**LEO DEX.**—Open orange-scarlet, changes to dark crimson.

## GERANIUMS.



### SPECIAL NEWER VARIETIES.

#### GRAND NEW SINGLE GERANIUM "TELEGRAPH."

The most distinct introduction in this line for many years; a variety that has been thoroughly tested and which is certain to be classed at once with the very best standard sorts either as a pot plant or for bedding. It is a strong robust grower with dark green foliage and heavy zone, while both the individual flowers and the trusses are of mammoth size. In color it is a most pleasing rich deep orange cerise. Strong plants from 2 inch pots 50c. each, postpaid.

**M. JOLLY DE BAMMEVILLE.**—A most distinct and beautiful variety. Violet maroon; bordered with dark crimson; upper petals touched with red; robust and free. Price, 25c. each.

#### NEW VARIETIES.—15c. each. \$1.50 dozen.

- BERTHA DE PRISILLY.**—Silver Rose.  
**E. H. TREGO.**—Brilliant scarlet.  
**JEAN DE LA BRETE.**—Rosy carmine.  
**MARQUISE DE CASTELLANE.**—Bright cherry.  
**MADONNA.**—Pure white, of special merit.  
**THOS. MEEHAN.**—Rosy Pink.

One each of the 7 above varieties including De Bammerville for \$1.00; or one each including De Bammerville and the new Telegraph for \$1.35, by express not prepaid.

**C. W. WARD.**—Brilliant deep apricot salmon; large trusses of perfectly formed flowers; habit exceptionally strong; vigorous and free blooming; dark green foliage; distinct chocolate zone. 20c. each.

#### OLD STANDARD VARIETIES,

15c. each; \$1.50 per dozen.

#### SINGLE VARIETIES.

**AMERICA.**—A great improvement on Mars. Very rich pink, with white border around each flower.

**DRYDEN.**—Centre pure white, surrounded by a band of the most dazzling rosy scarlet, producing the "Aureole" effect.

**S. A. NUTT.**—Large, dark rich crimson.

**L'AUBE.**—Pure snow-white.

**MAD. BRUANT.**—White-veined, with carmine lake.

#### DOUBLE VARIETIES.

**ALPHONSE RICCARD.**—Bright orange red.  
**BEAUTE POITEVINE.**—Rosy salmon, tinted from deep orange to salmon; double.

- CENTAURE.**—Splendid shade of pink.  
**GILLIAN M. GILL.**—Free bloomer; pleasing shade of crimson.  
**GENERAL DE BOISDEFERRE.**—Deep cherry salmon.  
**JOHN DOYLE.**—Rich, brilliant, vermilion scarlet.  
**LA PILOTE.**—Bright glowing scarlet.  
**LA FAVORITE.**—Finest of all whites.  
**LE CID.**—Grand velvety red.  
**MARQUISE DE MONTMORT.**—Deep brilliant carmine purple.  
**MAD. BARNEY.**—Splendid pure deep pink.  
**MISS KENDELL.**—Dark maroon, marked with red.  
**SWEET-SCENTED GERANIUMS.**—Balm, Rose, etc.; six varieties. 15c. each. 5 for 50c.; 30 for \$2.00.  
**IVY GERANIUM** from 2½ inch pots, 15c. \$1.50 dozen.

## FICUS.—Elastica.

(RUBBER PLANT.)

The well-known India Rubber Tree, one of the very best plants for table or parlor decoration. Its thick, leathery leaves enable it to stand excessive heat and dryness. Four-inch pot, each 50c. By mail, 55c. \$5.00 per dozen by express, not prepaid.

## MARANTA.



**MASANGEANA.**—Dwarf-growing plant, with light green foliage mottled maroon. Used extensively in filling fern dishes; foliage is always bright and attractive. Makes a very pretty effect when used with other plants in plant decorations. 25c. each.



SILVER SPOT.

## SCARLET SAGE.

OR

**SALVIA SILVER SPOT.**

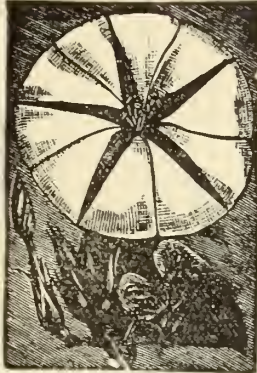
The most distinct feature of this novelty is its strikingly handsome spotted foliage. The leaves are covered with sulphur-yellow spots of various sizes; flowers are bright scarlet and large size. 10c. each; \$1.00 per dozen; \$6.00 per 100.

**SCARLET SAGE, OR SALVIA 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.

**SCARLET SAGE, OR SALVIA SPLENDENS.**—Tall, erect, green foliage. The well-known Salvia. 10c. each; \$1.00 per dozen; \$6.00 per 100.

**LEMON VERBENA (Aloysia citri-odora).**—10c. each; \$1.00 per dozen.

## MOON FLOWER.



**MOON FLOWER.**—Blue and white. 10c. each; 6 for 50c.; \$1.00 per dozen.

## HELIOTROPE.

Old-time favorites, popular on account of their fragrant blossoms. They thrive equally well on the lawn or in the house.

Each, 10c. Per dozen, \$1.00.

**HARDY ENGLISH IVY.**—10c. each. \$1.00 per dozen. Prices in large quantities on application.

## PANSIES.

GOOD VARIETIES.

Ready February and March.

G. & T. CO.'S CHOICE MIXED.—15c. each; 6 for 50c.; \$1.00 per dozen.

## FLOWER 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.	\$1.00
Each.....	
15 inches in diameter by 14 inches high.	\$1.50
Each.....	
18 inches in diameter by 16½ inches high.	\$2.00
Each.....	
21 inches in diameter by 18½ inches high.	\$2.50
Each.....	
24 inches in diameter by 20½ inches high.	\$3.00
Each.....	



## PALMS.

First Size....\$1.00 Second Size....50c.

**ARECA LUTESCENS.**  
**KENTIA BELMOREANA.**  
**LATANIA BORBONICA**—Chinese Fan Palm.

**COCOS WEDDELIANA.**  
**PANDANUS UTILIS.**

**BOSTON FERN.**—It is a very fine plant for hanging pots or baskets on the piazza in summer and conservatory or window in winter.

## PÆONIES.

One of the most popular hardy plants grown for lawn and garden decoration, or for mingling with shrubs for the herbaceous plants in borders and wild gardens.

**DOUBLE WHITE.**—25c. each; \$2.50 per dozen.

**DOUBLE ROSE.**—25c. each; \$2.50 per dozen.

**DOUBLE CRIMSON.**—25c. each; \$2.50 per dozen.

Postage extra 5c. each, if wanted by mail.

## U. S. Flower Tubs



**Cypress, Painted Green. Iron Feet and Iron Bound.**

Each.....	No. 1—13x11.	\$1.00
Each.....	No. 2—14½x13.	1.25
Each.....	No. 3—16x15	1.75
Each.....	No. 4—20x18.	2.50
Each.....	No. 5—24x21.	3.00

## TRITOMAS.—Red Hot Pokers

FLAME FLOWERS OR TORCH LILIES.



**PFITZERII (The Everblooming Flame Flower).**—The freest flowering variety in cultivation, with spikes from 3 to 4½ feet high and heads of bloom over 12 inches long of a rich orange-scarlet, shading to salmon-rose at edges, producing a grand effect whether planted singly in the border or in masses or beds of a dozen, a hundred or in thousands. (See cut opposite.) 15c. each; \$1.50 per dozen.

**UVARIA GRANDIFLORA.**—The old-fashioned late-flowering sort; spikes, 3 to 4 feet high; flowers rich crimson, shading to yellow. 10c. each; \$1.00 per dozen.

## HARDY WATER LILIES.

THE ease with which Water Lilies and Aquatics are cultivated, the certainty of handsome results the same season they are planted, the magnificent flowers of great variety of form and color, their delicate perfume and the great fascination in growing them, is making the water garden widely popular. The small-growing varieties may be grown in half-barrels or tubs. We do not, unless specially ordered, send out Water Lily plants until warm weather, about the middle of May. The tubs should have a hole in the side and kept plugged for the purpose of drawing off the water occasionally. The tubs containing the Lilies may be set in a cellar or any place where they will not freeze solid, and be ready to set out in the spring.

**NYMPHÆA ODORATA.**—The well-known, fragrant pond lily. Its lovely pure white flowers, so common in some localities, are worthy of a place among the choicest varieties where cultivated. 15c. each; 4 for 50c.; \$1.25 per dozen.

**NYMPHÆA ODORATA GIGANTEA.**—This is a superb variety, and should be in every collection. Similar in all respects to *Nymphaea Odorata*, but the flower is very large and full. 15c. each; 4 for 50c.; \$1.25 per dozen.

**NYMPHÆA ODORATA MINOR.**—A pretty little variety of our native pond lily, equally as hardy and fragrant, but the flowers and leaves are much smaller. 15c. each; 4 for 50c.; \$1.25 doz.

**PINK CAPE COD WATER LILY.**—Possesses all desirable qualities of *Nymphaea Odorata*. Flowers, large size; cup-shaped; color, lovely deep pink; delicious fragrance; free bloomer; most desirable variety. 40c. each; \$3.50 per dozen.



## IRIS.



**JAPANESE IRIS (Kaempferi).**—These magnificent Japanese Iris are among the most beautiful of our summer flowering plants, and are destined to become great favorites. They commence flowering early in July, and continue in bloom for five or six weeks, if plentifully supplied with water while growing and flowering. Many of these flowers measure from 10 to 12 inches in diameter, and almost rival the Orchids in their rich colorings and markings. Each, 15c.; 4 for 50c. If by mail, add 5c. per dozen.

**ENGLISH IRIS (Anglica).**—Large, handsome flowers with rich purple, blue and lilac colors predominating; grows 18 to 20 inches high; perfectly hardy. Mixed varieties. 10c. each; 40c. per dozen. If by mail, add 5c. per dozen for postage.

**GERMAN IRIS (Iris Germanica).**—This variety is the true "Fleur-de-Lis," the national flower of France. They are perfectly hardy, thrive anywhere, grow and bloom luxuriantly, particularly if plentifully supplied with water or if planted in moist situations, as on the banks of ponds, etc. Plants well established produce from 50 to 100 spikes of bloom, deliciously fragrant and fine for cutting. In beauty the flowers rival the finest Orchids, colors ranging through richest yellows, intense purples, delicate blues, soft mauves, beautiful claret reds, white, primroses, and bronzes of every imaginable shade. Mixed varieties, 10c. each; 40c. per dozen. Ready in November.

**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 flowers will be ready for cutting in May. Mixed varieties, each 10c.; 40c. per dozen. If by mail, add 5c. per dozen for postage.



## 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 GLO-RIOSA (Adam's Needle).**—Price one year old, 10c. each; \$1.00 per dozen. Two years old, 10c. each; \$1.50 per dozen.

BULBS FOR SPRING PLANTING.



GLADIOLUS.

GLADIOLUS

If wanted by mail, add 10c. per dozen 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.; \$1.25 per 100.  
WHITE AND LIGHT COLORS, dozen 30c.; \$2.00 per 100.

EXTRA WHITE AND LIGHT VARIETIES.—All first-class varieties, made up largely from best named sorts, including ten per cent. of Snow White, 5c. each. 50c. per dozen. \$3.50 per hundred.

CHILDSI MIXED.—Extra large and fine. 50c. per dozen. \$3.50 per 100.

LEMOINE'S (Mixed).—Extra fine. 40c. per doz., \$2.00 per 100.



CALADIUMS.

ELEPHANT'S 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.—5c. each. By mail 10c. 50c. per dozen.

EXTRA LARGE BULBS.—10c. each. By mail, 15c. \$1.00 per dozen.

DAHLIA BULBS.—By mail, single bulb, 10c., postpaid. Clumps, 10c. each. \$1.00 per dozen.



TUBEROSES.

ONE of the most fragrant and popular of the summer flowering bulbs. May be started early in hot beds or pots, or planted in open ground after first day of May.

Each..... 5c.  
Dozen..... 25c.  
Per 100..... \$1.00

By mail 35c. per dozen.

MADEIRA VINE ROOTS.

Each..... 5c.  
Dozen..... 30c.

SELECT EVER-BLOOMING ROSES.



ETOILE DE LYON (Tea).

**ETOILE DE LYON (Tea).**—One of the best and most beautiful yellow Tea Roses for general planting. It is of good constitution, one of the hardiest of the Teas, and may be had in bloom the entire year by proper treatment. The flowers are of good size, deep and full and very sweet-scented; color, rich golden yellow. (See cut.)

PRICES:

<b>Two Years Old.</b>	
Each.....	50c.
One dozen choice mixed (by express, not prepaid)	\$5.00.
<b>Six Months Old.</b>	
Each.....	15c.
One dozen choice mixed (by express, not prepaid)	\$1.25.

**CLOTHILDE SOUP-  
ERT (Tea).**—This is the most famous pot and bedding Rose (Polyantha Tea). Its charming coloring, shading from pearly white to purest rose, double blossoms, delightful fragrance, wonderful vigor and freedom of bloom combine to make it a most beautiful Rose.

**PERLES DES JAR-  
DINS (Tea).**—Beautiful rich yellow, of large size and perfect form.

**GENERAL JACQUE-  
MINOT (Hybrid).**—Too well known to require lengthy description. It still holds first place among the dark red Roses and is one of the most satisfactory to grow. A rich crimson scarlet, simply a mass of bloom when at its best.

**METEOR (Hybrid  
Tea).**—A velvety red ever-bloomer of the deepest glowing crimson. Flowers very double and petals slightly recurving. A beautiful open Rose, a free bloomer and promising well as a pot Rose.

**AMERICAN BEAU-  
TY (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. Each shoot produces a bud.



CLOTHILDE SOUPERT (Tea).



WHITE MAMAN COCHET.

**WHITE MAMAN COCHET (Tea—See cut.)**—This is a superb variety; snow-white. The flowers are large and very double, making it of more than ordinary value in open ground.

**GOLDEN GATE (Tea).**—This is a beautiful free blooming and healthy Tea Rose that we can recommend to everyone desiring large flowers, long stem and continuous bloom. The buds are long and pointed, opening out into a well-shaped flower of creamy white, delicately tinged with golden yellow and rose. (See cut.)

**COQUETTE DES ALPS  
(Hybrid Perpetual).**—A continuous flowering white; slightly shaded blush in centre.

**DUCHESS OF ALBANY  
(Tea).**—Rich, deep pink. An improvement on the well-known LaFrance.

**HERMOSA (Tea).**—Clear bright pink.

**KAISERIN AUGUSTA VIC-  
TORIA (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.

**MAMAN COCHET (Tea).—  
A BEAUTIFUL NEW TEA  
ROSE.** One of the very best and most valuable Roses of recent introduction, especially for outdoor blooming. The finest pink garden Rose yet introduced. The flowers are of great size and very double; color, bright rose.

**MARIE VAN HOUTE  
(Tea).**—Yellow, shaded rose.



GOLDEN GATE.

**PRINCE CAMILLE DE ROHAN (Hybrid Perpetual)**—Deep velvety crimson-maroon, shaded scarlet.  
**SAFRANO (Tea).**—Buff, tinted apricot.

## SELECT EVERBLOOMING ROSES.

PRICES: (Except where otherwise noted.)

One dozen choice mixed, two years old, \$5.00, 50c. each.  
By express not prepaid.

One dozen choice mixed, six months old, \$1.25, 15c. each.  
By express not prepaid.

**BOY SILENE (Tea).**—Brilliant carmine.  
**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.

**SOUVENIR DU PRES, CARNOT (Tea).**—The growth is vigorous, the flower is very large, both in the bud and expanded; opens beautifully. Rosy flesh, very soft in the center, and shaded with a lighter flesh at the end of the petals.

**COQUETTE DES BLANCHES (Hybrid).**—Pure white; very free blooming. One of the best white Roses.

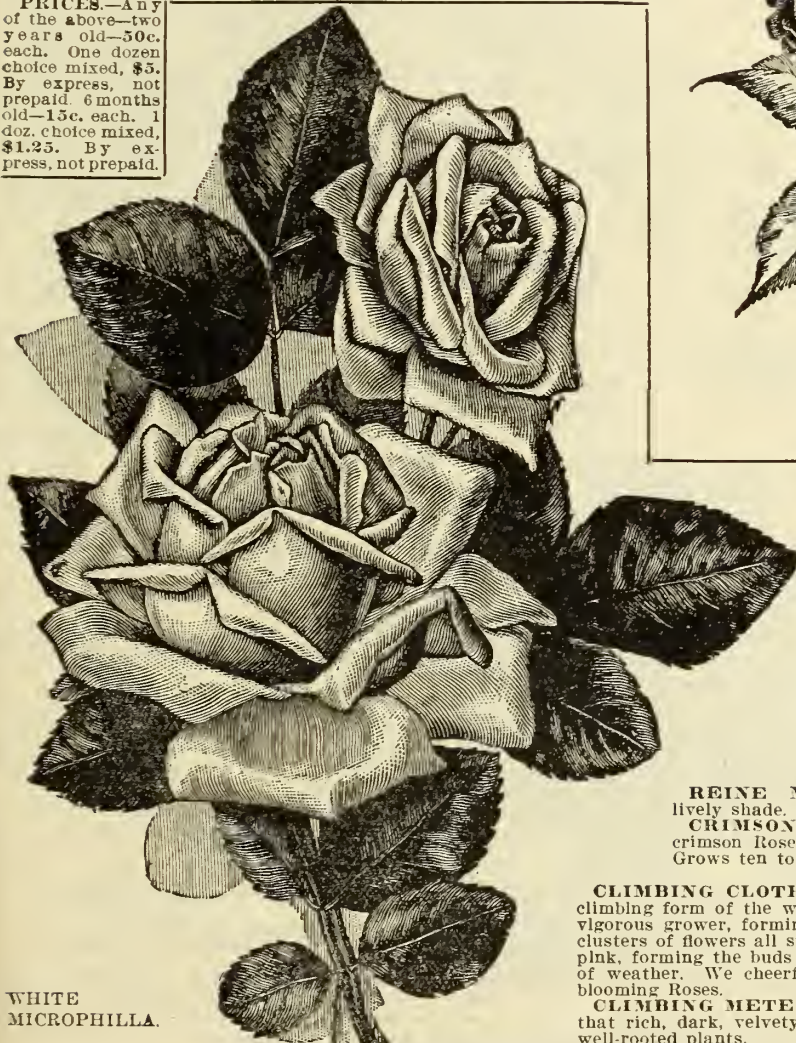
**DUCHESS DE BRABANT (Hybrid).**—Beautiful buds, deep rosy-pink, edged with silver; blooms quickly and constantly; one of the best.

**LA FRANCE (Tea).**—Undoubtedly the most perfect type of a cut-flower Rose. No variety surpasses it in delicate coloring—silvery rose, with a satiny sheen over all its petals. Flower large, with the well-known fragrance.

**PAPA GONTIER (Tea).**—Dark crimson red, with long, pointed buds; beautiful for cutting.

**HARDY MEMORIAL ROSE (Rosa Wichuriana)**  
For use in Cemeteries.—It is difficult to conceive anything more appropriate, beautiful and enduring for covering graves and plots in cemeteries than the Hardy Memorial Rose. It creeps along the ground almost as closely as the Ivy, growing ten feet in one season, and forming a dense mat of very dark green, lustrous foliage.

**PRICES.**—Any of the above—two years old—50c. each. One dozen choice mixed, \$5. By express, not prepaid 6 months old—15c. each. 1 doz. choice mixed, \$1.25. By express, not prepaid.



WHITE  
MICROPHILLA.

**Philadelphia Rambler (New).**—This variety is a cross between Crimson Rambler and the Hybrid Perpetual Victor Hugo, and is identical in all respects to the Crimson Rambler, except in color, which is a deeper, brighter and more intense crimson, which never fades out, and while it is not expected to supersede the old favorite, it is a most valuable addition to our list of hardy climbing Roses.

6 Months Old—25c. each.



## HARDY CLIMBING ROSES.

**WHITE MICROPHILLA, OR MAGNOLIA ROSE.**—Rich, creamy white; the most deliciously fragrant of all Roses; has strong resemblance to the odor of a magnolia; hence its name. Strong, rapid grower; leaves small; very hardy; constant bloomer. This is not a new Rose, but the old-time climber that was so extensively grown in ante-bellum days, and now coming to the front as one of the great climbers.

**REINE MARIE HENRIETTE.**—Cherry-red; a beautiful, lively shade. Buds long and pointed.

**CRIMSON RAMBLER.**—Magnificent pyramidal clusters of rich crimson Roses. Every cluster a perfect bouquet of Roses in itself. Grows ten to twenty feet in a year.

**CLIMBING CLOTHILDE SOUPERT.**—This grand new Rose is of the climbing form of the well-known and popular rose Clothilde Soupert. It is a vigorous grower, forming canes 15 feet in one season, and covered with large clusters of flowers all summer. Flowers are large, double and a beautiful shell pink, forming the buds in clusters. Perfectly hardy, and will stand any kind of weather. We cheerfully recommend it as the best of all the hardy ever-blooming Roses.

**CLIMBING METEOR.**—Blooms almost constantly. Flowers large and of that rich, dark, velvety crimson color seen only in the Jacqueminot. Strong, well-rooted plants.

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

## NURSERY DEPARTMENT.

## FRUITS.

## Summer Apples.

**YELLOW TRANSPARENT.**—Ripens among the earliest. July.  
50c. each. \$4.80 per dozen. \$18.00 per 100.  
**STAR.**—One of the best. July.  
50c. each. \$4.80 per dozen. \$18.00 per 100.

## Autumn Apples.

**GRAVENSTEIN.**—August.  
50c. each. \$4.80 per dozen. \$18.00 per 100.  
**OLDENBURG** (Dutchess of Oldenburg).—August.  
50c. each. \$4.80 per dozen. \$18.00 per 100.

## Winter Apples.

**LANKFORD'S SEEDLING.**—A popular sort for late winter use.  
50c. each. \$4.80 per dozen. \$18.00 per 100.  
**YORK IMPERIAL, or JOHNSON'S FINE WINTER.**  
50c. each. \$4.80 per dozen. \$18.00 per 100.  
**STAYMAN'S WINESAP.**—A great Apple.  
50c. each. \$4.80 per dozen. \$18.00 per 100.

## Additional Varieties.

("S" means Summer, "A" Autumn, "W" Winter.)  
**Red Astrachan, S. Carolina Red June, S. Tetofsky, S. Fall Pippin, A. Smokehouse, A. Ben Davis, W. Bentley's Sweet, W. Berry Red, W. Fallwater, A. Winesap, W. Nausemond Beauty, W. Rome Beauty, W.**  
25c. each. \$2.50 per dozen. \$15.00 per 100.  
**CRAB APPLES.**—50c. each. \$5.00 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.

**GARBER.**—September and October. Said to be blight proof.  
40c. each. \$4.00 per dozen. \$25.00 per 100.  
**KEIFFER.**—The old, well-known, reliable and paying variety.  
40c. each. \$4.00 per dozen. \$30.00 per 100.  
**FLEMISH BEAUTY, BARTLETT, SECKEL.**  
30c. each. \$3.00 per dozen. \$25.00 per 100.

## Dwarf Pears.

**PRICES ON DWARF PEARS, 2 and 3 years, first-class:**  
25c. each. \$2.50 per dozen. \$15.00 per 100.

The following varieties succeed well as dwarfs:

Angouleme, Anjon, Lawrence, Seckel, 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.

50c. each. \$4.80 per dozen.  
**ELBERTA.**—Needs no description.  
25c. each. \$3.00 per dozen.

**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.  
25c. each. \$3.00 per dozen.

**GOLDEN DWARF.**—Seldom grows over 4 to 5 feet. Very hardy; cling. Excellent eater. Fine for city yards.  
25c. each. \$3.00 per dozen.

Alexander, Louise, Yellow St. John, Mountain Rose, Early Silver, Crawford Early, Wheatland, Crawford Late, Chairs Choice, Family Favorite, Chinese Cling, Old Mixon, Reeve's Favorite, Christiana, Smock Free, Globe, Ringold Cling.  
18c. each. \$1.75 per dozen. \$12.00 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.

Price, \$1.00. Three for \$2.50.  
**WILLARD.**—Earliest of all Japan Plums, and hence very valuable for market.  
50c. each. Three for \$1.25.

**WICKSON.**—Pit small; flesh tender, sweet and delicious. Season just following the Burbank Plum.  
50c. each. Three for \$1.25.

Will sell one of each of above or the three in one order for \$1.50.

**BOTAN, OR ABUNDANCE.**—First of August.  
**BURBANK.**—September 1st.  
The two above-named varieties, 60c. each. Three for \$1.50. Six for \$2.75. \$4.50 per dozen.  
**ADDITIONAL FRENCH AND AMERICAN VARIETIES, INCLUDING SHROPSHIRE DAMSON.**  
35c. each. \$3.50 per dozen.

## Cherries.

**HEART.**—Black Tartarian, Gov. Wood, Napoleon Bigareau, Florence, Mercer.  
**DUKE AND MORELLO.**—Dye Honse, Belle Magnifique, Early Richmond, Montmorency.  
Price 50c. each. \$5.00 per dozen.

## Apricots.

**HARRIS.**—Very hardy; blooms late; sure bearer; fine golden yellow. 50c. each. \$4.80 per dozen.  
**RUSSIAN VARIETIES AND NECTARINES.**  
25c. each. \$2.50 per dozen.

## Nut-Bearing Trees.

Spanish Chestnut, English Walnut, Paper Shell Pecan, Filberts, Shell Barks, Hard and Soft Shell Almonds.  
Price, 40 and 50c. each, according to variety.  
**JAPAN CHESTNUT.**—\$1.00 each. \$10.00 per dozen.

## Grapes.

The following list contains the best-known sorts of hardy American varieties:

**OHIO, Black.**—One of the very best. Two years old.  
25c. each. \$2.50 per dozen.  
**Brighton, Red, Concord, Black, Delaware, Red, Martha, White, Worden, Black.** Two years old.  
25c. each. Twelve for \$2.50.  
**Moore's Early, Black, Niagara, White, Pocklington, White, Vergennes, Red.**—30c. each. \$3.00 per dozen.  
**Campbell's Early.**—50c. each. \$5.00 per dozen.

## Select Quinces.

**CHAMPION** (3 to 4 feet).—35c. each. \$3.00 per dozen.  
**CHAMPION** (2 to 3 feet).—30c. each. \$2.50 per dozen.  
**MEECH PROLIFIC** (3 to 4 feet).—35c. each. \$3.00 doz.  
**MEECH PROLIFIC** (2 to 3 feet).—30c. each. \$2.50 doz.

## ORNAMENTALS.

## Deciduous Trees.

Can furnish any of the Deciduous Trees at 50c. to 75c. each, and larger quantities in proportion.  
**SPRUCE** (2 to 2½ feet).—50c. each. \$5.00 per dozen.  
**FIRS** (2 to 2½ feet).—75c. each. \$7.50 per dozen.  
Other Varieties in Proportion.  
**MAGNOLIA, GRAND** (2 to 3 feet).—\$1.25 each.

## Shrubby.

**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.**—75c. each.  
**DEUTZIA CRENATA.**—75c. each.  
**LILAC** (White and Blue).—75c. each.  
**SPIREA, RIEVESII.**—75c. each.  
**SPIREA, BUMALDO.**—75c. each.  
**SPIREA, CALOSA ALBA.**—75c. each.  
**HYDRANGEA, PANICULATA GRAND.**—75c. each.  
**GRAPE MYRTLE.**—\$1.00 each.

## Vines.

**AKEBIA QUINATA.**—50c. each.  
**AMPELOPSIS VEITCHII.**—50c. each.  
**ENGLISH IVY.**—50c. each.  
**WISTARIA PURPURA.**—50c. each.  
**WISTARIA ALBA.**—50c. each.  
**CLEMATIS** (Large Flowering).—50c. each.  
**CLEMATIS** (Small Flowering).—50c. each.

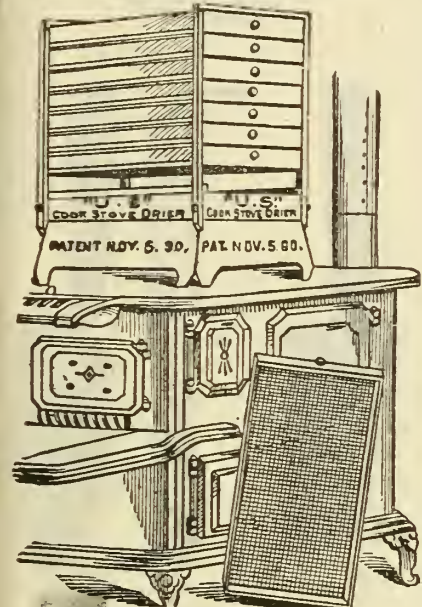
## Hedge Plants.

**CALIFORNIA PRIVET:**  
One Year—\$4.00 per 100. \$35.00 per 1000.  
Two Years—\$5.00 per 100. \$40.00 per 1000.  
**OSAGE ORANGE:**  
One Year—75c. per 100. \$7.50 per 1000.  
Two Years—\$1.25 per 100. \$10.00 per 1000.  
**AMERICAN ARBORVITAE:**  
12 to 18 Inches—25c. each. \$12.50 per 100.  
2 to 3 Feet—75c. each. \$22.50 per 100.



## 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 wasted 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 to 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.



**PRICE**—Any of the above varieties, strong, healthy layers, 25c. per doz., 75c. per 100; \$4.00 per 1000.

Pot-Grown plants will be ready for delivery after August 1st. Prices for pot-grown plants are from \$3 to \$4 per hundred, according to variety.

## CURRENTS.

### CHERRY.

Per half-dozen.....\$0.60  
Per dozen..... 1.00  
Per 100 (by express)..... 6.00

### FAY'S PROLIFIC.

Strong grower, wonderfully productive, and comes to bearing young; fruit large, bright red and good quality.  
Per half-dozen.....\$0.75  
Per dozen (by express)..... 1.25

### WHITE GRAPE.

Per half-dozen.....\$0.60  
Per dozen..... 1.00  
Per 100 (by express)..... 5.00

## Japan Wineberries.

This fruit is but little known, but should be in every garden. It is wonderfully productive.  
Per dozen (by express).....\$2.00

## STRAWBERRY PLANTS.

Varieties Marked "P" Should Have Another Perfect Flowering Sort Near Them.

WE offer a nice stock of Strawberry Plants of all the leading varieties, and at low prices, considering the quality of the stock. We can supply them at short notice, freshly dug and shipped direct from the nursery.

**JESSIE.**—Mid-season; good size and productive.

**NICK OHMER.**—Mid-season. Fruit large, glossy red, of excellent flavor.

**BEDERWOOD.**—Early and of medium size.

**GLEN MARY (New).**—A very large variety; larger than Sharpless or any other berry.

**CLYDE.**—Fruit large, firm and of light scarlet color.

**LADY FINGER.**—A very long berry of beautiful appearance. In season from medium to very late.

**BRANDYWINE.**—Very late; productive; strong grower.

**TENNESSEE PROLIFIC.**—Large, sweet, firm.

**KENTUCKY.**—Medium to late.

**GANDY.**—Late. Fine for canning.

**MICHEL'S EARLY.**—Very early.

**BUBACH (P).**—Medium to late.

**TUBBS.**—Very early.

**SHARPLESS.**—Old reliable.

**WILSON.**—Old standard sort. Medium, early.

**CUMBERLAND.**—Medium, very large, juicy, of good flavor. Productive.

**CRIMSON CLUSTER.**—Late. One of the finest yet introduced.

**HOFFMAN.**—Medium size, firm and good quality and productive.

**JOHNSON'S EARLY.**—One of the finest early berries grown. Do not let it get too thick.

**ZEITER'S EARLY.**—For an extra early berry this is best of all. Good shipper. Very productive for so early a berry. Ahead of Michel's in size and productiveness.

**WILSON, JR.**—Very early.

**ERIE.**—Early.

**EARLY HARVEST.**

**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, 50c. per dozen. \$3.50 per 100.  
By express.

## RASPBERRIES.



### KANSAS (Black Cap).

THE fruit is handsome, 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. 75c. per dozen; \$3.50 per 100.

**MILLER RED.**—Fruit size of Cuthbert; bright red; does not fade; core very small; ripens very early; heavy bearer; best shipper. 75c. per dozen; \$3.50 per 100.

**MUNGER.**—Resembles Gregg, but much finer. One of the best of the black caps. Perfectly hardy. 75c. per dozen; \$3.50 per 100.

**GOLDEN QUEEN, CUTHBERT, OHIO AND SOUHEGAN.**—50c. per dozen; \$3.00 per 100.

## BLACKBERRIES

**ELDORADO.**—Berries very large; jet black; sweet, melting; no hard core; splendid keeper and shipper. 75c. per dozen; 3.50 per 100.

## GOOSEBERRIES

### DOWNING.

#### Two-Year-Old.

Per half-dozen.....\$0.75  
Per dozen..... 1.50  
Per 100 (by express)..... 7.00

### HOUGHTON'S SEEDLING.

Per half-dozen.....\$0.50  
Per dozen..... 1.00  
Per 100 (by express)..... 5.00

### JAPAN HARDY ORANGE.

#### (Citrus Trifoliata.)

New Hardy Orange. It blooms and fruits profusely in the parks of Philadelphia and New York. To have a fruiting Orange tree in your garden is certainly something to be proud of; its large, white, sweet-scented flowers are produced in the greatest abundance before the fruit appears. Well adapted for hedges, making a close, compact growth that nothing can penetrate. Fruit small, bright orange red in color, has a peculiar flavor, fine for preserving.

#### Three Years Old, By Freight or Express.

Each.....\$0.50  
Per dozen..... 5.00  
Per 100..... 15.00



ORANGE (Hardy).

Horticultural Tools and Supplies

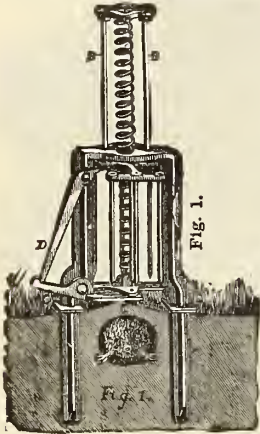


Fig. 1.

L. M. OLMSTEAD'S IMPROVED RELIABLE MOLE TRAP (Fig. 1.)

**No Cheap Trap So Good. No Good Trap So Cheap.**  
 Springs are furnished to operate the trap. The spring can be readily attached and detached.  
 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.

OUT OF SIGHT MOLE TRAP (Fig. 2.)

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.

GARDEN REELS (Fig. 4.)

Small size..... 75c. Large size..... \$1.00

EXCELSIOR WEEDER (Fig. 5.)

Price..... 10c. Mailed..... 15c.

LARGE HAND WEEDER (Fig. 6.)

Malleable Iron Hand Weeder..... 15c.  
 Solid Steel Hand Weeder..... 25c.

By mail, 10c. extra.

DIBBERS.

For transferring plants. By far the best thing for the purpose ever introduced.

Fig. 8.—Right-angle shape, steel-polished, wood handle—40c.

EDGING KNIVES (Fig. 9.)

9 inch, American..... \$0.75    9 inch, Eng., black..... \$1.35  
 8 inch, Eng., black.... 1.25    10 inch, Eng., black..... 1.50

SCUFFLE HOES (Fig. 10.)

4 inches..... 50c.    8 inches..... 70c.  
 6 inches..... 60c.    10 inches..... 80c.

PLANTAIN TROWEL (Fig. 14.)

No. 2, 5-inch blade..... 15c.    No. 1, 8-inch blade..... 25c.

GARDEN TROWEL (Fig. 11.)

Sixteen gauge tool steel, 6-inch blade, a socket handle that will not come out in dry weather. Price 15c.

GARDEN TROWELS (Fig. 12.)

Each.  
 Best forged English steel, socket handle, strong and durable, 6-inch..... 40c.  
 American, Florist..... 20c.  
 " 6-inch bright steel blade, plain handle..... 5c.  
 " 6-inch tinned steel blade, enameled handle..... 10c.

EUREKA HAND WEEDER (Fig. 13.)

A Very Handy and Useful Little Instrument.

Short handle..... 25c.    Long handle..... 35c.

THERMOMETERS (Fig. 15.)

8-inch tin, japanned, No. 20..... \$0.15  
 10-inch, distance reading, No. 6..... .35  
 8-inch, cabinet, No. 201 H..... .50  
 10-inch, tin case, best quality, No. 31..... .60  
 Porcelain scale, red spirit, No. 251, 8-inch..... 1.00  
 Porcelain scale, 10-inch, red spirit, No. 251..... 1.25  
 12-inch, tobacco curing, No. 0..... 2.25  
 Registering (sixes), No. 650..... 2.25  
 Mushroom bed, good grade..... 1.00  
 Mushroom bed, best..... 1.50  
 Dairy or hotbed glass float..... .25  
 Glass floating, large..... .50  
 8-inch standard flange, stands boiling water..... .50  
 Milk Hydrometer, No. 2080..... .40  
 Milk Hydrometer, No. 2085 (Quevenne)..... .75  
 Incubator, upright..... .75  
 Incubator, reclining..... .60  
 Brooder, No. 1307..... .30

GRASS HOOKS.

American, plain..... 25c.  
 American, Blue Ribbon..... 40c.  
 German—No. 0..... 20c.  
 German—No. 1..... 25c.  
 German—No. 2..... 35c.  
 German—No. 3..... 40c.  
 Best English Grass—No. 2..... 35c.  
 Best English Grass—No. 3..... 50c.  
 Best English Hedge or Grass Hooks—No. 4..... 60c.  
 Best English Hedge or Grass Hooks—No. 5, riveted back..... 75c.

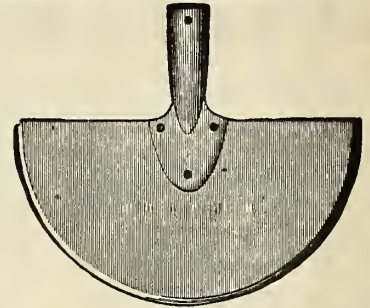


Fig. 9.

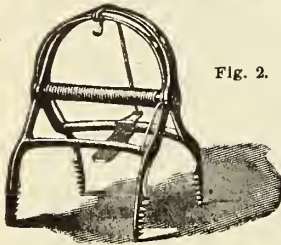


Fig. 2.

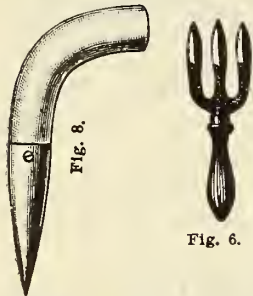


Fig. 8.

Fig. 6.

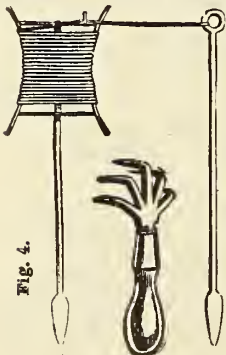


Fig. 4.

Fig. 5.



Fig. 7.

Best Asparagus Buncher \$1.50.  
 Asparagus Knives.....30c.  
 By mail 30c.



Fig. 11.

Fig. 13.

Fig. 12.



Fig. 10.



Fig. 14.

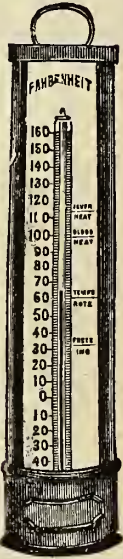


Fig. 15.

# Horticultural Tools and Supplies

CONTINUED.

**WATERS' TREE PRUNERS.—Fig. 17.**

4 feet long.....	\$.75
6 feet long.....	\$.85
8 feet long.....	1.00
10 feet long.....	1.10
12 feet long.....	1.25

Extra knives, 20 cents.

**BORDER SHEARS.—Fig. 18.**

Price, without wheel, No. 191.....	\$2.25
Price, with wheel, No. 105.....	2.50

**HORSE SHEARS.—Fig. 19.**

Bent Handle, No. 1087.....	\$.50
Curved Handle, No. 1090.....	.60

By mail, add 15c.

**HORSE SCISSORS.**

No. 9162, extra fine.....	\$1.25
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By mail, add 15c.

**PRUNING SAWS.—Fig. 20.**

16-inch double.....	\$.60
18-inch double.....	.70
20-inch double.....	.80
Saw and chisel, combined.....	1.10

**PRUNING SHEARS.—Fig. 21.**

No. 33, Coil Spring, Mal. Handle, Steel blade.....	\$.30
No. 4, Flat Spring, Steel blade.....	.40
No. 1337, Solid Steel, 1/2 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, 8 1/2 inch.....	1.25
No. 4770, Ladies' nickel plate, 6 inch.....	1.00

**PRUNING KNIVES.—Fig. 22.**

Iron Handle, No. 126, 50c.; No. 2173, Cocoa Handle, 65c.

**BUDDING KNIVES.**

Prices—No. 12.....	\$1.00	No. 10.....	\$1.25
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**TELEGRAPH TREE PRUNERS.**

Price without pole \$1.15. Extra blades 20c.

**LAWN SHEARS.—Fig. 23.**

No. 1062, 2 wheels, 8 in. blade, for cutting on narrow borders, under fences and shrubs, \$2.75.

**GRASS SHEARS.—Fig. 24.**

Bent Handle, No. 360, 35c. Trowel Handle, No. 460, 50c. Mail, add each 15c.

**HORSE OR DOG CLIPPERS.—Fig. 25.**

Very handy about horses; also for clipping dogs.

Horse, No. 179, \$1.00. Horse, No. 159, Ball-bearing, \$1.75. Horse, No. 71, Fet Lock, Nickel Plate, \$1.00. Toilet or Fet Lock, Nickel Plate, 90c.

**HEDGE SHEARS.—Fig. 26.**

8 in., No. 100, \$1.25.	9 in., No. 100, \$1.50.	10 in., No. 100, \$1.75.	12 in., No. 100, \$2.25.
8 in., with notch, No. 101, \$1.50.	9 in., with notch, No. 101, \$1.75.	10 in., with notch, No. 101, \$2.00.	12 in., with notch, No. 101, \$2.50.

**LOPPING SHEARS.**

Fig. 27.  
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.

**ASPARGUS KNIFE.**

Fig. 28.  
Made of solid steel, 30c. By mail, 40c.

**SHEEP SHEARS.**

Fig. 29.  
No. 3749, 85c. No. 3755, full polished, \$1.00. By mail, add 15c.

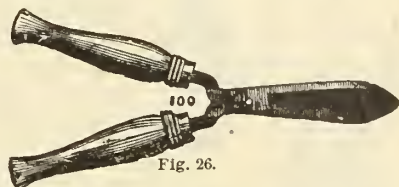


Fig. 26.

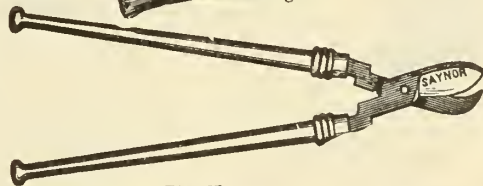


Fig. 27.



Fig. 28.



Fig. 29.



Fig. 30.

**FLOWER AND GRAPE SCISSORS.—Fig. 30.**

Flower Scissors, 75c. No. 3774, Grape Pickers, 50c. 5 cents extra for postage.

**FRUIT PICKER.—Fig. 31.**

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. 30c.

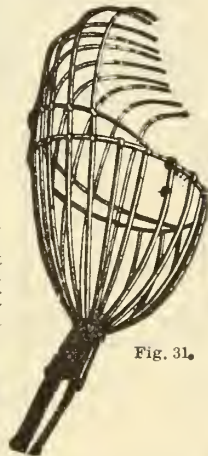


Fig. 31.

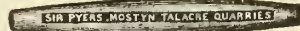


Fig. 32.

**SCYTHE STONES.—Fig. 32.**

No. 1—Willoughby Creek, 10c. each, \$1.00 per doz.
No. 2—White Mountain, 10c. each, \$1.00 per doz.
No. 3—Green Mountain, 10c. each, \$1.00 per doz.
No. 4—Indian Pond, No. 2 (red end), 5c. each, 50c. per doz.
No. 5—Mowing Machine (beveled), 10c.
No. 6—Darby Creek, 10c. each, \$1.00 doz.
Cigar Emery, 10c. each, \$1.00 doz.
No. 7—Imported English Talacre, 20c. each.

None genuine unless labeled Sir Pyers Mostyn, Talacre Quarries.

**WIRE PLIERS.**

Fence Wire Cutters, 6 in. 40c.; 8 in. 50c.; 10 in. 60c.

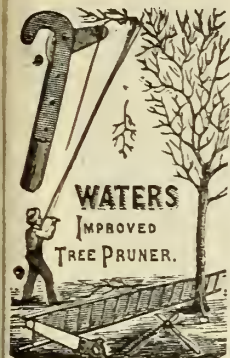


Fig. 17.



Fig. 18.



Fig. 19.

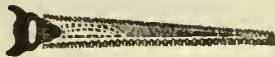


Fig. 20.



Fig. 21.

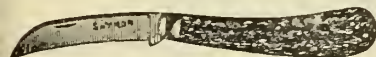


Fig. 22.



Fig. 23.

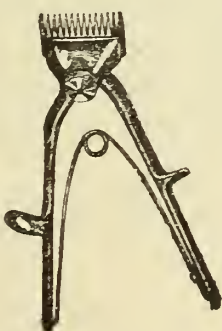


Fig. 24.



Fig. 25.



## BALTIMORE CEDAR WASHER.

PRICE,  
\$4.00

ELECTRIC WELDED WIRE HOOPS.



**T**HE Baltimore Washer is constructed of the best white cedar, very strong, nicely finished and is one of the largest round Washers on the market. Round, electric-welded hoops of extra heavy galvanized wire, fitted in a groove around the machine, which prevents them from dropping off. The Baltimore is supplied with improved gearing, and all the castings are japanned. The inside is fully corrugated, similar to a washboard, having no nails or block of any kind. The bottom and sides are corrugated; in others the corrugation runs only the length of the staves, thus making crevices for dirt and allowing the steam to escape through the top and water to leak through the bottom. The bottom of the tub is larger than the top, allowing plenty of room for water and clothes. In this machine is placed a square galvanized iron rod fastened firmly to the dolly.

Instead of using a square wooden post to work the dolly (that is, the circular wooden revolving head that holds the clothes in position), in this machine is placed a square galvanized iron rod fastened firmly to the dolly. The whole arrangement can be lowered or raised by the operator without removing the tops, and it will also accommodate itself automatically to the quantity of clothes, rendering it impossible to tear the most delicate fabric, as this offers nothing to which the clothing can catch.

OUR SPECIAL PRICE.....\$4.00

## ORIOLE CEDAR WASHER.

**T**HE ORIOLE is precisely the same in construction as the Baltimore, described above, and while made of cedar the wood is not selected with the same care. While the Baltimore is finished in natural wood, the Oriole is painted. We recommend it as a first-class machine for the money.

OUR SPECIAL PRICE.....\$3.50

## 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.....\$3.00

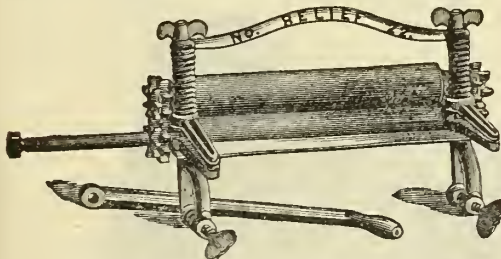
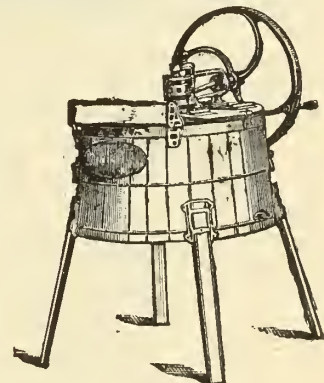
## Griffith and Turner Improved Cedar Rotary Washer, No. 2.

ELECTRIC WELDED WIRE HOOPS.

**I**T IS A FACT unquestionably that white cedar is the only wood known that successfully resists the action of water, as, witness, white cedar shingles and posts oftentimes last for a hundred years. Ninety per cent. of the washtubs used are made of cedar because they are preferred. That being the case, why should not cedar washing machines also?

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. The tubs are made of selected VIRGINIA WHITE CEDAR, and are nicely corrugated on sides and bottom. The hoops are made of 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



## RELIEF WRINGER.

**IRON FRAME. THE FRAME IS MADE ENTIRELY OF WROUGHT AND MALLEABLE IRON.**

By the use of the thumb-nuts and spiral springs in this Wringer the pressure can be adjusted quickly for either heavy or light work; therefore the rolls are never overstrained, and will wear much longer than the ordinary iron frame Wringer. With cog wheels. Five sizes. Packed four and six in a case.

No. 330.—SMALL FAMILY.	Price.....\$2.75	Rolls, each.....\$1.25
Size of Rolls, 10x1 1/4 in.		
No. 332.—LARGE FAMILY.	Price.....\$3.25	Rolls, each.....\$1.50
Size of Rolls, 12x 1 1/4 in.		

## SUPERIOR WRINGER.

We also carry a stock of the following well-known Iron Frame Wringers—

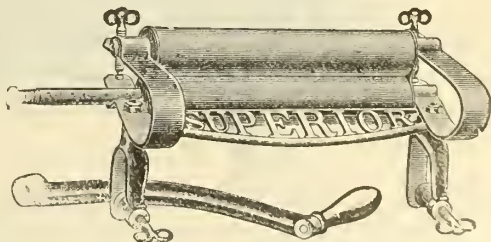
Name.	Size of Rolls.	Price.
Superior, No. 210.....	10x1 1/4 in.....	\$2.50
Superior, No. 212.....	12x1 1/4 in.....	3.00
Star, No. 10.....	10x1 1/4 in.....	1.75

**CRESCENT.**—Same as Relief, but cheaper grade rolls.

No. 130.....	10 inch.....	2.25
No. 132.....	12 inch.....	2.75

**EXTRA ROLLS—**

Superior.....	10 inch.....	1.25
Superior.....	12 inch.....	1.50
Cheaper grade.....	10 inch.....	1.10
Cheaper grade.....	12 inch.....	1.25



ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

# POULTRY SUPPLIES

## Prairie State Incubators and Brooders

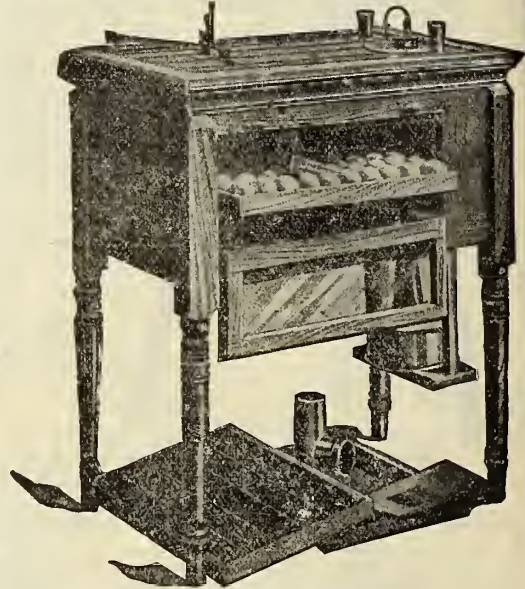


Baby No. 1-50 Eggs.

**P**RICES on Prairie State Incubators and Brooders have been considerably reduced. Every machine is constructed of the very best material, finely finished, self-regulating, having automatic turning tray which is a very strong feature, and all machines are built over the same pattern. One machine will do just as good work as another, and no one need hesitate to send us an order for any style or size that the Company manufactures. We warrant the machines first-class in every respect.

### Our Indoor Hot-Air Brooders.

The Style D, Prairie State Indoor Brooder is a hot-air machine, with force-draft ventilation, and is equally adapted to the needs of the beginner in poultry-raising or the large commercial plant. It is heated by an oil lamp.



No. 1-Special.

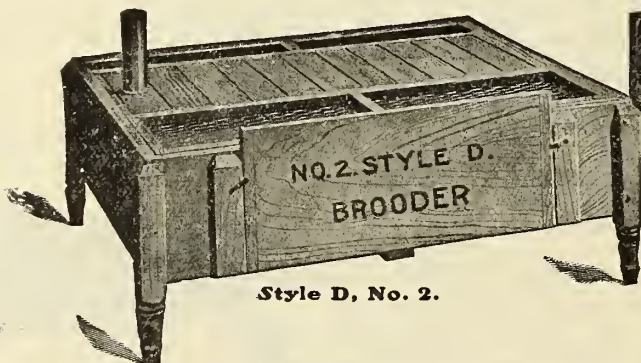
### PRAIRIE STATE BABY.

No.	Dimensions.	Capacity.	Weight, Lbs. Crated.	Price.
1	14½x24	50 eggs	45	6.00
2	19½x31	100 "	70	10.00
<b>PRAIRIE STATE STYLE A.</b>				
1	27 x37	150 eggs	170	20.00
2	27½x47	210 "	215	26.00
<b>PRAIRIE STATE STYLE B.</b>				
1	27 x37	150 eggs	150	15.00
2	27½x47	210 "	195	22.00

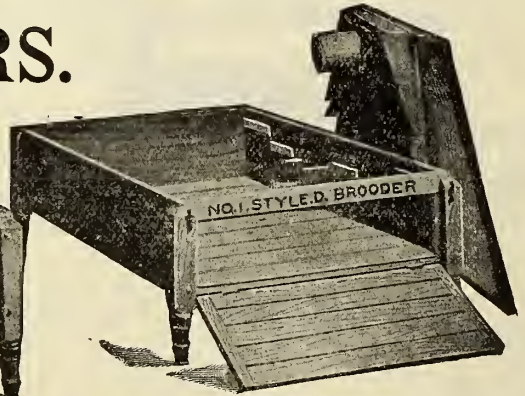
### PRAIRIE STATE SPECIAL.

No.	Dimensions.	Capacity.	Weight, Crated, Lbs.	Price.
0	15½x26½	60 to 65 eggs	80	\$12.00
1	23 x34½	110 to 120 "	135	18.00
2	28½x50	220 to 240 "	240	29.00
3	28½x70	390 to 360 "	350	38.00
4	28½x95	440 to 480 "	425	50.00
288 Duck	36 x68	{ Duck eggs, 288 }	425	44.00
Goose Machine	31 x18½	{ Hen " 400 }	160	25.00

## BROODERS.



Style D, No. 2.



Style D, No. 1.

### STYLE D, HOT-AIR INDOOR BROODER No. 2.

Dimensions 36x36½ in.; capacity 125 chicks; weight, crated 85 pounds; boxed, gross 95 pounds, net 58 pounds; cubic contents, 8¼ feet.

**PRICE, \$9.00.**

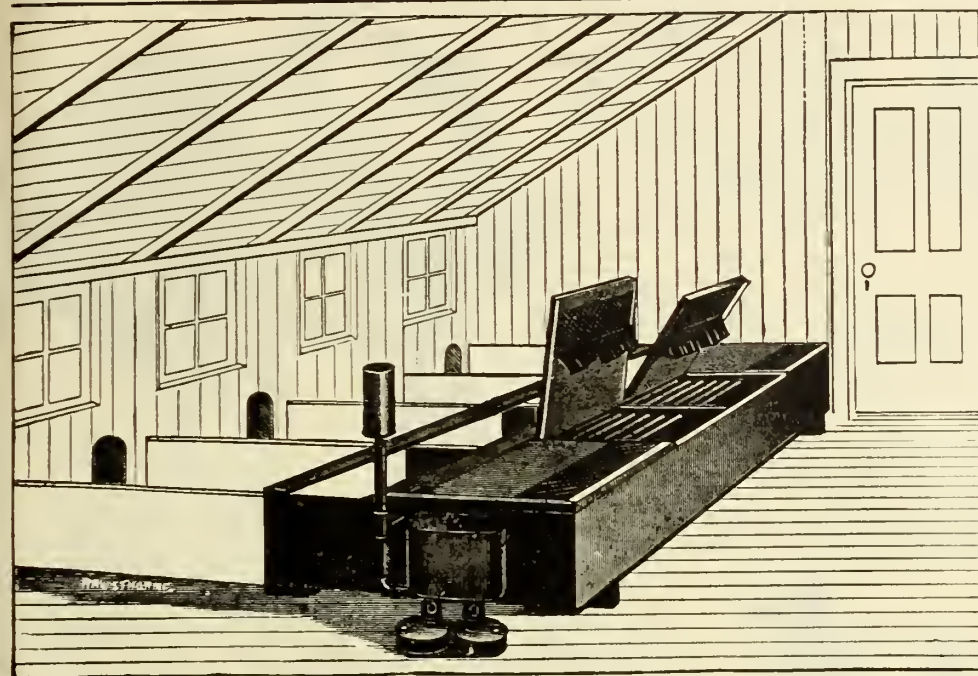
### STYLE D, HOT-AIR INDOOR BROODER No. 1.

Dimensions 25½x36 in.; capacity 80 chicks; weight, crated 60 pounds; boxed, gross 71 pounds, net 39 pounds; cubic contents, 6¾ feet.

**PRICE, \$7.00.**

BROODERS CONTINUED ON NEXT PAGE.

**THE POULTRY YARD.**—Continued.



**Prairie State Sectional Indoor Brooder.**

STYLE B, HOT WATER.

This Brooder is intended for small or portable Brood-houses, or run in connection with the pipe system and hot-water stove. It is very simple, easy to operate, easy to clean, and not hard to move from one place to another. It is provided with a movable floor that can be raised or lowered instantly.

No.	Dimensions Each Section.	
2	Two sections	36x36
3	Three "	36x36
4	Four "	36x36

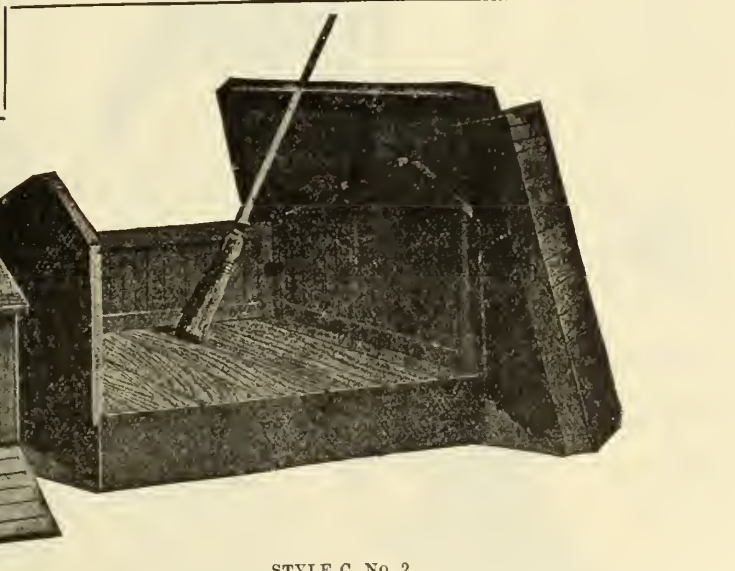
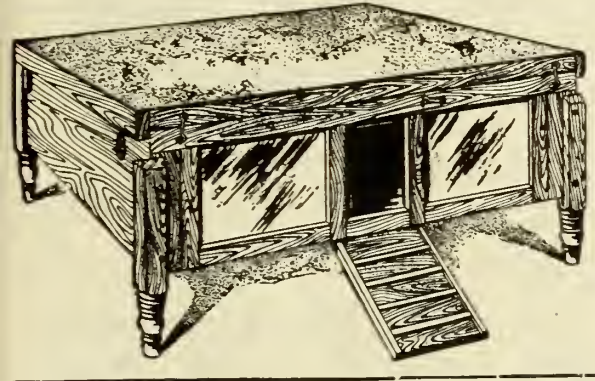
No.	Capacity.	Price.
2	200 chicks	\$19.00
3	300 "	24.00
4	400 "	29.00

**Style O, Hot-Air Outdoor Brooder.**

Dimensions, 36x36 inches; capacity, 125 chicks; weight, crated, 85 pounds; net, 58 pounds; cubic contents, 13½ feet.

The top is made of galvanized iron, and is hinged at back, opening the entire brooder for ease in cleaning; the cover is fastened to top, and when top is lifted is out of the way entirely while cleaning; heat is supplied by one of our regular brooder lamps, placed in box under the rear side. The heating device is entirely new, and consists of a galvanized iron drum directly over the lamp chimney, with two cylindrical arms; also of galvanized iron radiating from the drum each way and extending through the sides of brooder.

**PRICE, \$7.00.**



STYLE C, No. 1.

STYLE C, HOT-AIR OUTDOOR BROODERS.

1	36x36	100 chicks	125 lbs.	16.00
2	48x48	150 "	185 "	\$12.00

STYLE C, No. 2.

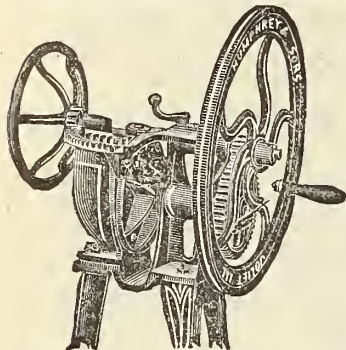
Prairie State Thermometers special tested. Metal, 75 cents, postpaid.

Burners for No. 1 Incubator Lamp, 20 cents, postpaid; for No. 2, 25 cents; No. 3, 35 cents, postpaid.

Lamps for No. 1 Incubators, 60 cents; for Nos. 2 and 3, 75 cts. Egg Tester, 35 cents, postpaid; Brooder Lamps, 75 cents.

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

## THE POULTRY YARD---CONTINUED.



### Humphrey Green Bone and Vegetable Cutter.

The knives of the Humphrey Cutter act upon the shear principle, producing a granulated cutting, without question the best form in which to feed green bone. An eight-year-old boy can take out the knives, sharpen them on a common grind-stone and replace as readily as a finished mechanic. Easily kept clean. Requires no cracking of the bones with an axe.

The Humphrey is a vegetable cutter also, and is always ready without change of knives or cutter head.

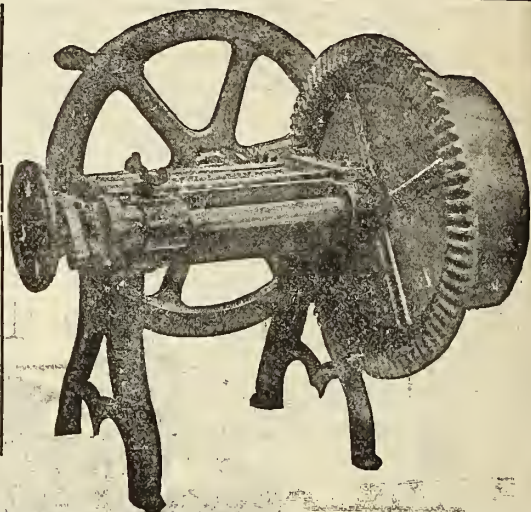
#### CAPACITY.

The capacity of a bone cutter depends upon the strength and energy of the operator and the nature of the material to be cut. The No. 1 Humphrey is suitable for cutting all the animal food for flocks up to 300 fowls. No. 2 does not

appear much larger than No. 1, but is made from a heavier set of patterns and is supplied with a pulley wheel to run by power.

No. 2½ is 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. 1 2½ Hand and Power.....\$15.00.
- " 2 Semi-Power.....



### MANN'S CLOVER CUTTER. Made entirely of Steel.

- No. B, with balance wheel.....\$ 8.00.
- No. BM, with balance wheel, on iron stand..... 10.00.

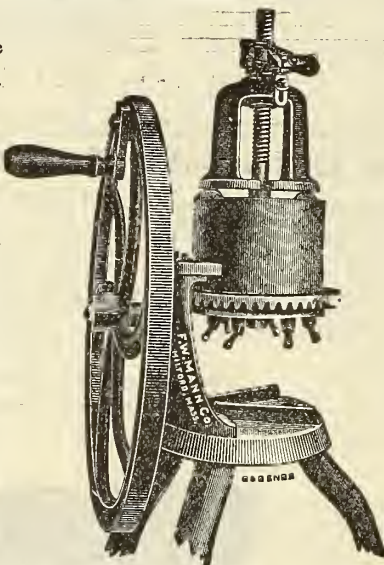
### MANN'S BONE CUTTERS.

#### 1902 MODEL.

The feed is both automatic and self-governing. Cuts all gistle and meat. Nothing escapes uncut.

#### PRICES MANN'S CUTTERS.

- No. 5C, with crank handle, \$6.00.
  - No. 5B, with balance wheel.....8.00.
  - No. 5 BM, with balance wheel, on iron stand, 10.40.
  - No. 7, with balance wheel, on iron stand..... 12.00.
  - No. 11, Power machine, 26.00.
- Other hand and power machines' prices on application.
- No. 5 C, capacity not quite equal to 5 B.
- No. 5 B, same machine as 5 BM. Same capacity, but has no iron stand.
- No. 5 BM intended for 15 to 25 hens. Mounted on iron stand. Capacity 15 to 20 pounds per hour.
- No. 7 intended for 40 to 100 hens. Capacity, 30 to 60 pounds per hour.
- No. 11 intended for large flocks of over 100 fowls. Capacity, 100 pounds per hour.



**DANDY GREEN BONE CUTTER.** This is one of the simplest and best cutters made. Has automatic feed. The knives are made from the best tool steel and finely tempered. There is one plain and two corrugated knives. Can be changed to cut coarse or fine.

#### THE No. 0 DANDY.

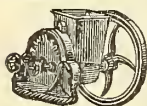
#### SUITABLE FOR A FLOCK OF 60 TO 75 CHICKENS.

- No. 0 With long handle, weight 35 pounds.....\$ 5.00.
- No. 0 With balance wheel, weight 65 pounds..... 7.00.
- No. 1 With heavy balance wheel and disc, with three hardened steel knives. Capacity from 150 to 200 chicks, weight about 100 lbs. 10.00.
- No. 2 Same as No. 1, except it has a split-nut in the feed wheel which facilitates the working of the feed screw. Weight 100 pounds..... 12.00.
- No. 3 For hand or power. Capacity by hand power, per hour 25 to 30 pounds. By power, capacity for 1000 to 1500 chickens.... 18.00.

#### GEARDED DANDY CUTTERS.

The geared machines will cut faster, and having four knives will cut just as fine as the others.

- No. 9. Weight 100 pounds. Capacity 100 to 150 fowls.....\$12.00.
  - No. 10. Weight 130 pounds. Capacity 200 to 250 fowls..... 15.00.
  - No. 11 With split-nut. Weight 130 pounds. Capacity 200 to 250 fowls..... 17.00.
  - No. 12 With balance wheel for hand..... 20.00.
  - No. 13 With balance wheel and pulley for hand or power..... 22.00.
  - No. 13 With tight and loose pulley for power..... 25.00.
- Weight of No. 13 machines, 180 pounds. Capacity by hand, 250 fowls, by power 1000 fowls.



### Wilson No. 0 For Grain Only.

An excellent mill for grinding grain of all kinds. Weight, 30 lbs. Price.....\$4.00.

**Price \$3.**  
**Extra Grinders 40 cts Pair.**

### BLACK HAWK FEED MILL. 17 LBS.

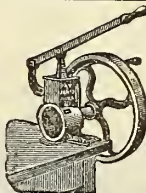


GRINDS CORN, WHEAT, RYE, RICE, SPICES, ETC.

MAKES BEST GRAHAM FLOUR AND MEAL for table use.

Easily set to grind as fine or as coarse as desired.

Just the thing for cracking corn, etc., for POULTRY.



### WILSON'S CROWN GREEN BONE MILL.

This machine is especially made for cutting green bone with meat on, right from the butcher, or offals of bone and meat from the table. Turns easy, fine and fast.

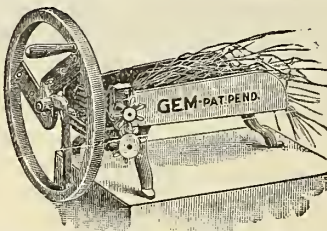
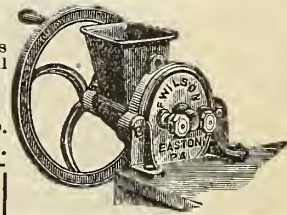
- With stand, 80 pounds.....\$8.50.
- Without stand, 50 pounds..... 6.50.

#### Wilson's 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, 53 lbs.....\$4.00.
- Weight, with stand, 64 lbs..... 6.00.



### The Gem Clover Cutter.

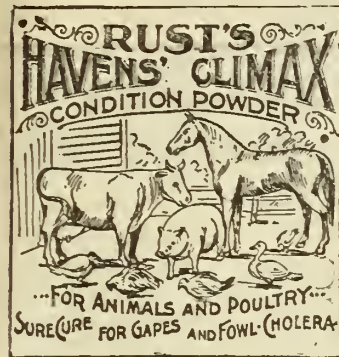
All Iron and Steel.

CUTS GREEN OR DRY FINE.

- Price.....\$ 9.00.
- " with legs..... 10.00.



## THE POULTRY YARD—Continued.



**RUST'S EGG PRODUCER.**—This has given our customers universal satisfaction. It supplies those substances which produce egg growth and development. So moderate in price, it should be used winter and summer. 1 lb. package 25c., 2½ lb. package 50c., 6 lb. box \$1.00.  
 If to be sent by mail, add 16 cts. per lb. to pay postage.

**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. All who have used Haven's Climax Condition Powders once will have it again. 13 oz. package 25c., by

mail 40c. 32 oz. packages 50c. 5 lb. box \$1.00.

**HAVEN'S ROUP PILLS.**—For the cure of Roup, Catarrh, Colds, etc. Box 25c.

**CHICKEN MANNA, OR HEALTH FOOD (For Little Chicks).**—This preparation is specially 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. pkg., 10c.; by mail 25c. 5 lb. pkg., 40c. 15 lb. pkg. \$1.10. 60 lb. box, bulk, \$1.20.



**PRATT'S POULTRY FOOD** will make hens lay all the year, and is excellent for feeding young chicks. For large fowls mix one oz. with the food for 15 or 20. For 15 or 20 chicks give ½ ounce every other day. 1½ lb. pkg. 25c. 5 lb. pkg. 60c. 12 lb. bulk, \$1.25. 25 lb. bulk, \$2.50.

**PRATT'S FOOD FOR HORSES.**—7 lbs. 50c. 12½ lbs. 75c. 25 lbs. \$1.50.

**PRATT'S ANIMAL REGULATOR.**—25c. package.

**PRATT'S LICE KILLER.**

**LEE'S EGG MAKER.**—2½ lb. pkg. 25c. 25 lb. pail \$2.00.

**SILVER PINE HEALING OIL.**—Great healer for barbed wire cuts, will also heal old sores, bruises, kicks, swellings, burns, scalds, muscular rheumatism, sprains, injuries from rusty nails and all flesh wounds. 25c. size.

**INTERNATIONAL POULTRY FOOD.**—Prevents and cures chicken cholera; a wonderful egg producer; will keep chickens healthy and fat. 25c. and 50c. size.

**INTERNATIONAL STOCK FOOD.**—Makes horses fat, and healthy and glossy, a medicated food; 3 feeds for one cent. 25c. and 50c. size. 25 lb. pail, \$3.50.

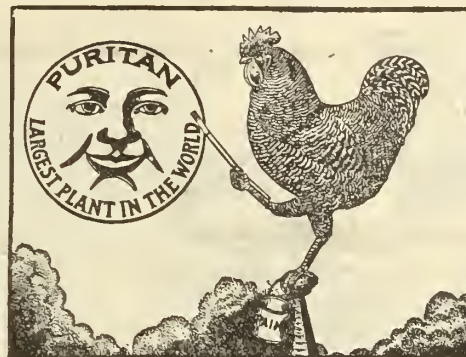
**KAFFIR CORN (Red or White).**—Makes excellent food for poultry or pigeons, either fed in the grain or ground and cooked. Also an excellent forage plant. Sow four to five pounds to acre. 5 lbs. 25c. Special price in quantity.

### Dr. J. G. Lesure's Warranted 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-Healing Balm 50c. Gall Cure 25c., 50c. Lesure's Liniment 50c.

Nice cabinet furnished with an assorted order of \$20.00.

**VETERINARY REMEDIES (Dr. A. C. Daniels).**—Colic Cure \$1.00. Cough, Cold and Fever Drops 50c. Horse Renovator 50c. Wonder-Worker Oster-Cocous (Nerve and Muscle Liniment) 25c. and 50c. Hoof Grower and Softener 50c. Gall-Cura 25c.



The virtue of Puritan Chick Food is spreading from breeder to breeder with amazing rapidity.

Parties that have ONCE USED this food would not be without it, and as this rule applies so universally, all that is asked is a trial NO MATTER HOW SMALL; the result shall then be left to the food which will speak for itself. 5 lb. box 25c. 25 lb. bag \$1.00. 50 lb. bag \$1.75. 100 lb. bag \$3.25. Special prices in large quantities.

**PURITAN LAYING STOCK FOOD.**—Will bring you many more eggs at same cost in the end. It contains no stimulant, no condition powders, and your fowls will always be in prime condition on an absolutely balanced ration. Feed alternately out of each bag. Bag "A" first and bag "B" next day. In bags of 50 lbs., price \$2.75 f. o. b. Baltimore per 100 lbs. Better prices can be made f. o. b. factory.

**CANARY, PIGEON AND PARROT FOOD.**—Canada Field Peas, peck 50c., bushel \$1.60. Buckwheat, quart 10c., peck, 40c. Hemp Seed, lb. 8c., 4 lb. 25c. Canary Seed, 10c. lb. Bird Rape, 8c. lb.

**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 keep them healthy. 1 lb. 10c., 5 lbs. 30c., 10 lbs. 50c., 25 lb. \$1.00. 100 lb. bag \$3.00.

**CLOVER MEAL FOR POULTRY.**—By all odds the best and most economical way of feeding clover. Can be fed in mash with other food. 50 lb. bag \$1.25. 100 lb. bag, \$2.00.

**CUT CLOVER HAY.**—Excellent food for winter and early spring. 50 lb. bag \$1.25. 100 lb. bag, \$2.00.

**GROUND BEEF SCRAPS.**—Our ground beef scraps are especially prepared. Feed three times a week at the rate of about a handful to every three birds in the morning meal of hot food. During warm weather the scraps need not be fed more than once a week. 5 lbs. 25c., 10 lbs. 40c., 50 lbs. \$1.50, 100 lbs. \$2.75.

**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. Fed to small chicks about three times a week will promote health, growth and vigor. 5 lbs. 25c., 10 lbs. 40c., 50 lbs. \$1.75, 100 lbs. \$3.00.

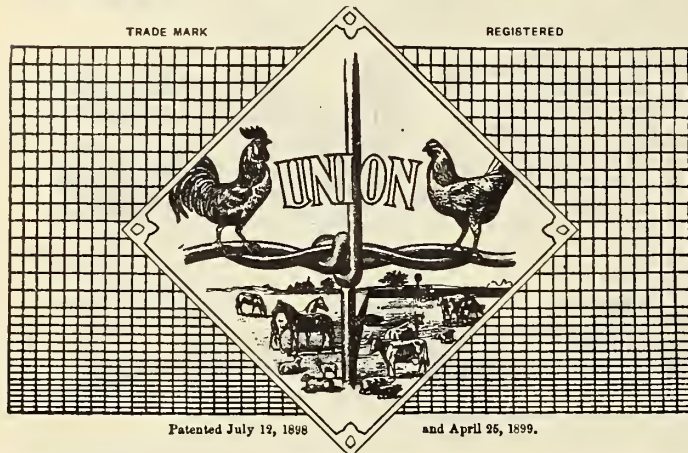
**CRACKED POULTRY BONES.**—This article is manufactured from fresh, clean bones, and is perfectly pure and sweet. The bones are extra selected, being first boiled to remove the meat, and then ground. No chemicals whatever are applied to them in the course of manufacture, so that they are turned out green and pure. Should be fed to the poultry daily, about a handful to every five fowls, 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. 5 lbs. 25c., 10 lbs. 40c., 35 lbs. \$1.00, 100 lbs. \$2.50.

**BONE FLOUR FOR POULTRY.**—For mixing once a day with soft feed this is unsurpassed. Laying hens and young chickens, whose digestive powers are not strong, are much benefited by this, especially during winter months, or when closely confined in yards. This is exactly the same as the cracked bone described above, only it is ground much finer. 5 lbs. 25c., 10 lbs. 40c., 30 lbs. \$1.00, 100 lbs. \$2.50, bag of 167 lbs. \$4.00.

**CRUSHED OYSTER SHELLS.**—This is a most important article for the poultry yard through the winter, and should be liberally supplied to the fowls. In summer when left to run at large, they can find their own shell-making material, but when everything is frozen or covered with snow, they must be helped out if eggs are wanted. 5 lbs. 10c., 100 lb. bag 75c., 500 lb. bag \$3.25. Special prices in larger quantities.

**GRANITE GRIT.**—To aid digestion it is necessary to feed some gritty material. These supply this want better than any other article known. 5 lbs. 15c., 100 lbs. 90c., 200 lbs. \$1.75.

THE POULTRY YARD—Continued.



UNION LOCK POULTRY FENCE.

The horizontal lines are all composed of two heavily galvanized steel wires twisted together.

Beginning at the bottom, the first 7 cables are 1 1/4 inches apart, the next 3 cables are 1 1/2 inches apart, then 6 cables 2 inches apart, and all above that 4 inches apart. This gives a mesh of 1 1/4 x 3 inches at the bottom, where it is needed for small chicks; and above 2 feet, where fowls can only reach when on the wing, the mesh is 3x4 inches.

On account of the picket being at right angles to the cables, this fence will fit any unevenness of the ground without cutting, which is an advantage not possessed by any diamond mesh netting or diagonal mesh fencing.

Because of its strength and construction this fence requires no top or bottom rail and no more posts than the ordinary woven wire stock fence, or about one-half the number needed for poultry netting.

	List Price Per Roll.	Retail Price Per Roll.	Retail Price Per Running Foot.
10 Rod Rolls, 165 ft. 24 in. wide....	\$5.60	\$2.80	When cut.... 2 1/4 c.
10 Rod Rolls, 165 ft. 36 in. wide....	6.90	3.45	When cut.... 3 1/4 c.
10 Rod Rolls, 165 ft. 48 in. wide....	8.30	4.15	When cut.... 3 1/2 c.
10 Rod Rolls, 165 ft. 60 in. wide....	9.60	4.80	When cut.... 4 c.
10 Rod Rolls, 165 ft. 72 in. wide....	10.80	5.40	When cut.... 4 1/2 c.
10 Rod Rolls, 165 ft. 84 in. wide....	12.30	6.15	When cut.... 5 1/4 c.

In comparing prices with ordinary poultry netting remember these bales are 15 feet longer.

M. M. S. POULTRY FENCING.

The salient features of merit in this fencing are found in its multitude of horizontal wires, the cabled selvage and cable every foot in the height of fence, to say nothing of the connecting mesh wires; this coupled with its peculiar construction bars any possibility of its contracting, sagging or narrowing together between the posts; therefore we do away with the top and bottom rail and fully one-half the number of posts ordinarily required, which reduces the actual cost of the completed fence to a minimum. Beginning at the bottom, the spacing between the horizontal wire for the first foot is 1 1/4 inches, second foot 2 1/4 inches and 3 1/4 inches above.

	List price per roll.	Retail price per roll.	Retail per rung. ft.
10 Rod Rolls, 165 ft., 24 in. wide....	\$4.00	\$2.10	1 3/4 c. per rung. ft.
10 Rod Rolls, 165 ft., 30 in. wide....	4.70	2.45	2 c. per rung. ft.
10 Rod Rolls, 165 ft., 36 in. wide....	5.30	2.80	2 1/4 c. per rung. ft.
10 Rod Rolls, 165 ft., 48 in. wide....	6.50	3.42	2 3/4 c. per rung. ft.
10 Rod Rolls, 165 ft., 60 in. wide....	7.70	4.05	3 1/4 c. per rung. ft.
10 Rod Rolls, 165 ft., 72 in. wide....	8.70	4.57	3 3/4 c. per rung. ft.
10 Rod Rolls, 165 ft., 84 in. wide....	9.90	5.20	4 1/4 c. per rung. ft.

DIAMOND MESH POULTRY NETTING.

The Wire we offer is all Nos. 19 and 20 double twist, 2-inch mesh, thoroughly galvanized. Sold in halves of 150 running feet.

PRICES 2-INCH MESH.

No. 19.	in. wide.	sq. ft.	per bale.	No. 20.	in. wide.	sq. ft.	per bale.
"	12	150	\$ .75	"	12	150	\$ .68
"	18	225	1.12	"	18	225	1.05
"	24	300	1.50	"	24	300	1.35
"	36	450	2.25	"	36	450	2.02
"	48	600	3.00	"	48	600	2.70
"	60	750	3.75	"	60	750	3.37
"	72	900	4.50	"	72	900	4.05

Price, 1 cent per sq. ft. in less than bale lots. Staples for fastening, 10c. per pound.



EGG TESTER, Price 35c.



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.



WIRE HEN NESTS. 15c. each; \$1.50 per dozen.

Lice Killer and Nest Egg Combined in One. Lasting, effective. Not expensive. Does not affect the flavor of the egg or injure it for hatching. 60c. dozen.

PORCELAIN NEST EGGS. The best and cleanest nest egg used. Each, 5c.; dozen, 25c.—by mail, 50c.

CAST-IRON POULTRY TROUGHS.

No. 0—8 in. long, 3/4 in. wide at top, 1/4 in. deep, 1/2 pint..20c.  
No. 1—20 in. long, 4 in. wide at top, 1 1/2 in. deep, 1 pint...40c.  
No. 2—24 in. long, 7 in. wide at top, 3 in. deep, 2 1/2 quarts..60c.  
No. 3—29 in. long, 7 in. wide at top, 3 in. deep, 3 1/2 quarts..75c.

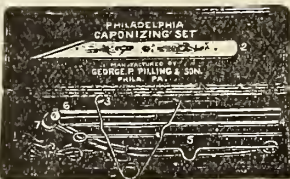


NESCO GALVANIZED DRINKING FOUNTAINS.  
1 qt., 25c. Dozen, \$2.50  
2 qts., 30c. Dozen, 3.00  
4 qts., 50c. Dozen, 5.00  
8 qts., 75c. Dozen, 7.50  
BALTIMORE FOUNTAINS, EARTHENWARE.  
1 qt., 25c. Dozen, \$2.50  
2 qts., 35c. Dozen, 3.50  
4 qts., 45c. Dozen, 4.50

FRENCH POULTRY KILLING KNIFE. Expeditious and humane way of killing and dressing poultry. Price, with instructions, each, 50c.

CAPONIZING TOOLS.

You can do your own caponizing easily. Book with full instructions sent free, with each set of instruments. Price, in Leather Case, with instructions, \$2.75.



METZ'S GAPE WORM EXTRACTOR. The latest improved method of extracting the Gape Worm. Humane and sure. Directions accompany each instrument. 25c. each.

MANN'S SWINGING FEED TRAY.

18 inch.....\$1.00  
27 inch.....1.25



POULTRY MARKER.

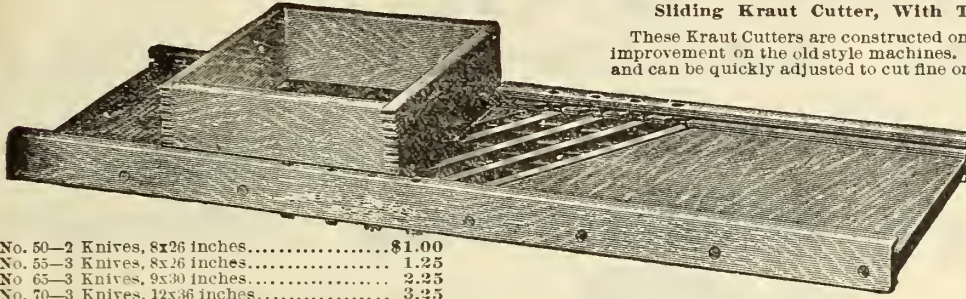
For marking young and old chickens. Made in two sizes for large or small chicks. Sent by mail on receipt of price, 25c.



OLD STYLE GAPE EXTRACTOR. Price 25c. Each.



## 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 adjustment is perfect, being controlled with  $\frac{1}{2}$ -inch round-head stove bolts.

- No. 50—2 Knives, 8x26 inches.....\$1.00
- No. 55—3 Knives, 8x26 inches..... 1.25
- No. 65—3 Knives, 9x30 inches..... 2.25
- No. 70—3 Knives, 12x36 inches..... 3.25
- No. 75—4 Knives, 12x36 inches..... 3.75

good iron boxes. Rest of machine hard wood. Will do fast work. Wheel with rough face can be furnished for a little less money. Price, **\$8.00.**  
**Special Discount for Cash.** Can furnish with 3 knives if desired.

### Revolving Kraut Cutter No. 13.

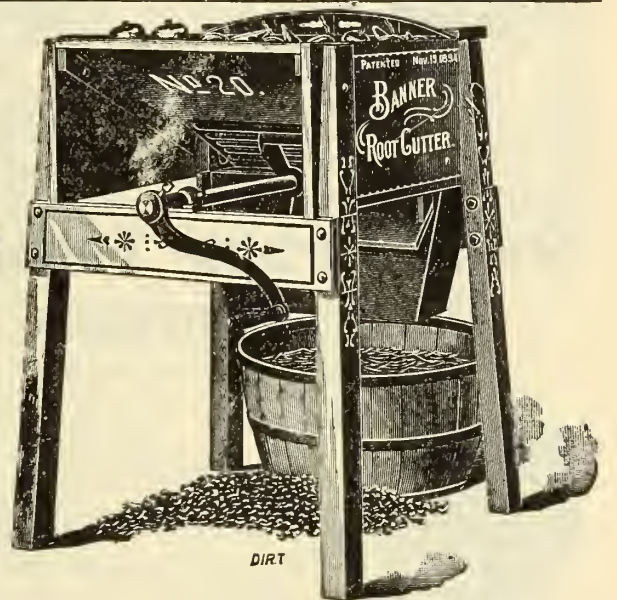
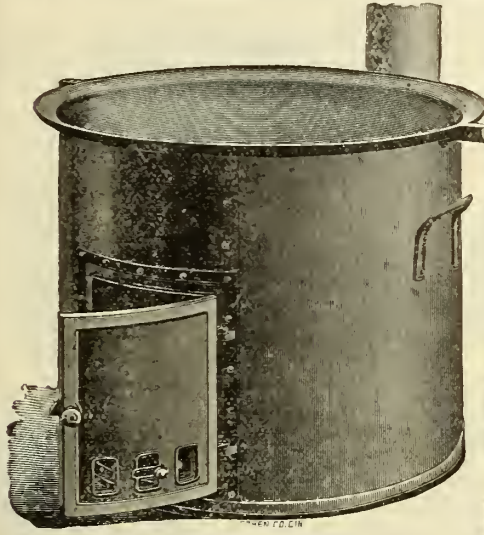
The disc wheel, 20 inches diameter, 2 adjustable steel knives. Face of wheel is smooth. Strong shaft; Price, **\$8.00.**

## G. & T. BOILER AND FEED COOKER

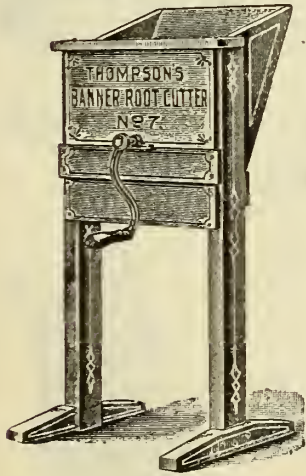
Heavy cold rolled steel furnace; extra large feed door; wrought iron handles, firmly riveted on. Kettles smooth, heavy cast iron. Door, frame and flue collar cast iron. Never buckles or warps from heat; designed to set on ground or brick foundation; especially adapted for cooking feed, rendering lard, 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, sulphur and salt.

Actual Capacity	Diameter of Furnace	Shipping Weight	List Price Furnace with Kettle	Ret'l Price Furnace with Kettle	List Price Kettle only	Ret'l Price Kettle only
30 gallons.	26 inches.	150 pounds.	\$13.00	\$9.75	\$5.25	\$3.95
33 gallons.	28½ inches.	175 pounds.	14.00	10.50	6.00	4.50
48 gallons.	31½ inches.	200 pounds.	16.50	12.40	7.50	5.65
53 gallons.	32 inches.	225 pounds.	18.00	13.50	8.00	6.00
75 gallons.	36 inches.	275 pounds.	24.00	18.00	12.00	9.00

Furnace with Fire Pot for Coal, add to list—List price **\$4.50.** Retail **\$3.25.** You will notice that our kettles are rated at exact capacity.



Thompson, Jr., No. 7 Root Cutter.

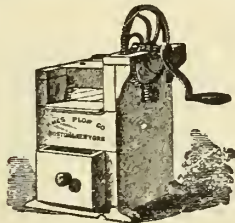


No. 7.

This cutter is adapted especially for poultry men 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. Price, **\$5.00.**

### Baltimore Electric Feed Cooker.

Furnace door frame, hearth and grates are of best cast iron; lining and sides of sheet steel plates; boiler is made of galvanized steel; will not rust; can also be used for scalding hogs. No. 1, 25 gallons, **\$12.50.** No. 1, 40 gallons, **\$15.00.** No. 1, 50 gallons, **\$17.00.**



### Horse Radish Grater.

With tin clad cylinder for Horse Radish. List price **\$7.00.** Retail **\$6.25.**  
 With steel pin cylinder for Horse Radish. List price **\$8.00.** Retail **\$7.25.**  
 With steel pin cylinder for Coconut. List price **\$9.00.** Retail **\$8.00.**  
 With steel pin cylinder for Horse Radish, with legs, balance wheel, treadle and crank. List price **\$14.00.** Retail **\$12.50.**

## THE BANNER ROOT CUTTER.

Built in Three Sizes for Both Hand and Power.

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. Retail price **\$9.00.**  
**Special Discount for Cash**  
 We have on market Crank Cutter, built with balance wheel, same to be of large capacity, on which we can make very low prices.

### THE NO 16.—SMALL POWER CUTTER.

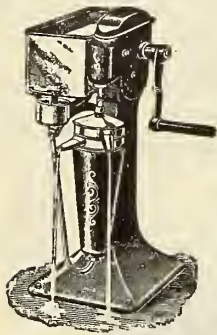
With Fly Wheel and 'Gand Wheel.  
 Supplied with crank also for hand use. Capacity by hand, 30 to 50 bushels per hour. Capacity by power, 2 to 3 bushels per minute. Our retail price **\$13.00.** **Special Discount for Cash.**

# THE DAIRY.

## SHARPLES' CREAM SEPARATORS.

**FREE TRIAL.**—Any dairyman can arrange with us for an **ABSOLUTELY FREE TRIAL** of any of the Dairy Sized Separators. There will be no obligation whatever to buy or keep it, if not perfectly satisfactory in every particular. All we ask is a guarantee for its prompt return in case it is not wanted.

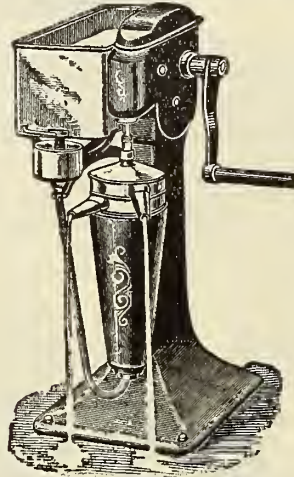
### Sit Down Tubular.



The most convenient, practical and efficient small capacity separator ever built. Designed for the use of those having only one or two cows. Carefully made from selected materials and built exactly like the larger machines. It stands 20 inches high—can be operated, at full speed and capacity, by a child—runs very smoothly—skims to perfection, being as perfect in action as our larger machines.

No. 1, Capacity 175 lbs. per hour. Price \$50.  
 No. 2, Capacity 275 lbs. per hour. Price \$75.  
 No. 3, Capacity 350 lbs. per hour. Price \$90.  
 These three sizes are readily turned by one who is seated. They stand only two feet nine and one-half inches high; the supply can is still lower.

### Tubular Hand Separator.



**Suspended Bowl, Bottom Feed, Low-down Supply Can, Easy Running, No Discs.**

THESE tubular dairy machines mark a new era in the construction of Dairy Cream Separators. The bowl of the 650-pound machine is only 2½ inches in diameter and weighs less than 7 pounds, including every revolving part, and requires even less power to run it at its full capacity than any 330-pound per hour hand machine in existence.

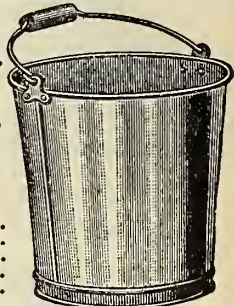
All the objectionable features of discs, cones, cylinders and other devices introduced in the bowl to facilitate separation, together with their attendant expense and maintenance, and the great amount of time and work required to clean and keep in perfect working order are done away with in the tubular bowl, and by reason of its small size and light weight the power necessary to run it to its fullest capacity is reduced to a minimum. **No Discs, please remember.**

**STAND UP SIZES.**

No. 4, Capacity 450 lbs. per hour. Price \$100.  
 No. 6, Capacity 650 lbs. per hour. Price \$125.  
 No. 9, Capacity 900 lbs. per hour. Price \$150.  
**Pulley Power Attachment \$2.50. Additional.**

These three sizes stand only 3 feet 6 inches high. The supply can is still lower.

### MILK PAIL.



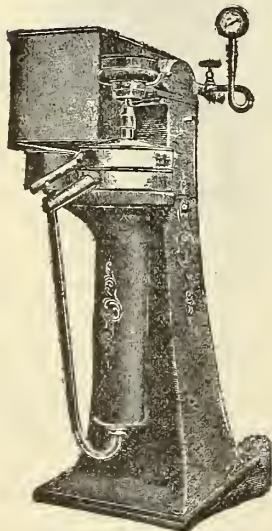
**MADE OF BEST TIN.**

**PRICE.**

No. 110—10 quarts.....30c.  
 No. 112—12 quarts.....40c.  
 No. 510—10 quarts.....50c.  
 No. 512—12 quarts.....55c.  
 No. 514—14 quarts.....60c.

### Steam Turbine Tubular Dairy Separator.

**DRIVEN DIRECT FROM THE BOILER.**



**MADE IN THREE SIZES.**

No.	Capacity.	Price.
5	500 pounds per hour.....	\$125
7	700 pounds per hour.....	150
10	1,000 pounds per hour.....	175

Either size, with Little Giant Boiler, \$50 extra.

**SEPARATOR OIL.**

Per gallon can.....\$0.75  
 Five-gallon can..... 2.50

Just a jet of steam, not much larger than would go through a straw, drives it to full speed.

An **Arnold of Wood** or a bucket of coal will furnish the needed fuel for the smaller machines for an hour's run. After being properly started no other attention is needed than the supplying of sufficient milk.

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 displacing 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 dairy use.

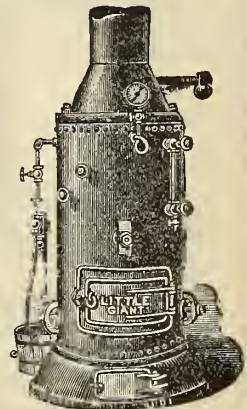
### The Sharples Little Giant Boiler.

This Boiler is built expressly for use with our Tubular Steam Turbine Separators, although any small boiler or feed cooker will answer the purpose, as they require no more steam than will go through a good-sized straw.

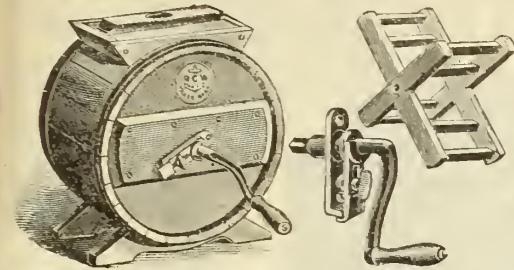
The first cost of a Steam Turbine machine and Little Giant Boiler is a little more than the first cost of a corresponding capacity hand separator, but taking into consideration the fact that the former can be conveniently operated for a longer time and larger dairy, and also that the boiler is worth its full cost for furnishing hot water and steam for the many uses about a farm, and the increased convenience of a Steam Turbine machine over a hand separator, will commend the same to your careful consideration.

These boilers are fully trimmed and provided with an injector.

Price, complete.....\$50.00



## THE DAIRY--Continued.

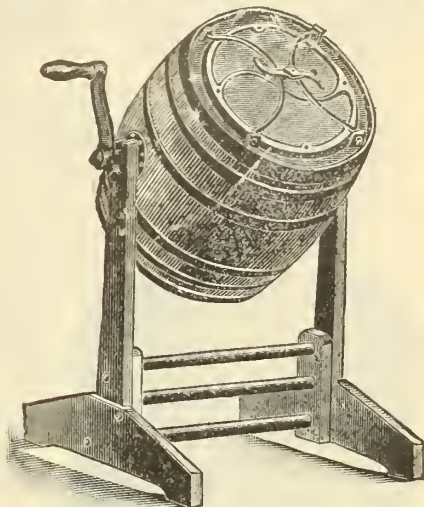


### IMPROVED CEDAR CYLINDER CHURNS.

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.	Capacity	Retail Price.	List Price.
1.	2 3/4 gallons..	\$1.85	\$2.50
2.	4 " ..	2.25	3.00
3.	7 " ..	2.60	3.50
4.	10 1/2 " ..	3.00	4.00

## Baltimore Favorite Churn.



Patented July 5, 1891.

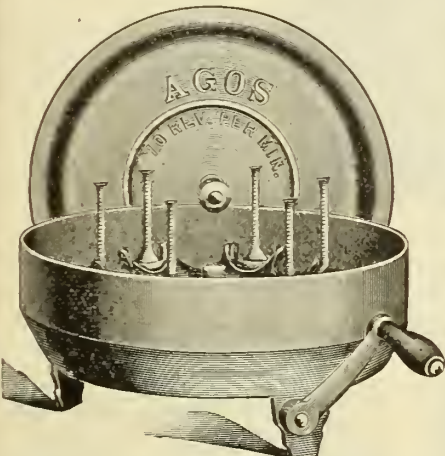
It is made of thoroughly seasoned material. It is finished smooth inside as well as outside. The iron ring head is strong, and not liable to break. The balls are fastened to the iron ring, where they need to be fastened. We furnish pulleys for power. Prices extra, according to size desired. Directions for using in each Churn.

Write for special discount for cash.

No.	Capacity.	To Churn.	List Price.	Retail Price.
0.	6 gallons.	3 gallons.	\$8.00	\$5.00
1.	10 " "	5 " "	9.00	5.50
2.	15 " "	7 " "	10.00	6.00
3.	20 " "	10 " "	11.00	6.75
4.	25 " "	12 " "	14.00	8.50
5.	35 " "	17 " "	16.00	10.00
6.	60 " "	30 " "	26.00	16.00
7.	75 " "	37 " "	30.00	18.50
8.	90 " "	45 " "	35.00	21.00

## THE "AGOS." STODDARD CREAMERY

CAST-IRON FRAME HAND BABCOCK TESTER.



Has latest improved cast-iron body and cover, spur and spiral gearing with machine cut teeth, removable malleable iron bottle head, seamless brass swinging pockets with reinforced ring and the bottles can swing perfectly horizontal when in motion, ball bearings which make it turn easier and run more smoothly and quietly than others. In fact, the "Agos" combines all the essentials of a perfect Babcock tester.

The hand "Agos" is similar to the steam turbine "Agos" which is so popular among its many users, and is sure to give satisfaction to all those who desire a perfectly **Accurate, Efficient, Simple, Durable** hand tester.

Owing to the fact that the gears are cut out of solid metal, these testers run practically noiseless, and are much better than the cheap-made testers.

The gearing is so arranged that a very high speed is obtained easily, which is one of the important requisites of a tester.

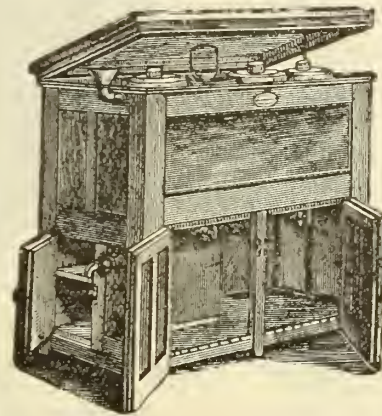
The "Agos" Tester takes up little room, and uses the ordinary Babcock bottle, the "B. & W." or the "Ohlsson" patent bottles. With each tester is furnished the following outfit: Full set of regular Babcock milk bottles, pipette, acid measure, acid sufficient for making 50 to 100 tests, and directions for manipulating. All testers are fitted with the ordinary milk bottles unless different bottles are ordered. For additional price for cream or composite bottles, write for price-list of extras.

Are also prepared to furnish the Facile Babcock Testers.  
Write for prices.

They are made in five sizes as follows:

4 bottles.....	\$8.00
6 " .....	9.00
8 " .....	10.00
10 " .....	12.00
12 " .....	14.00

Prices on Extras Furnished on Application.



With or without special refrigerator, thorough in construction, simple in operation, accurate in its workings.

#### FAMILY CLASS.

No.	Capacity.	Plain Creamery.	With Special Refrigerator.
2	2 to 2	\$20.00	.....
3	3 to 4	26.00	\$31.00
4	4 to 6	32.00	37.00

#### DAIRY CLASS.

No.	Capacity.	Plain Creamery.	With Special Refrigerator.
2	5 to 6	\$25.00	.....
3	7 to 9	31.00	\$36.00
4	10 to 12	37.00	42.00
5	13 to 15	43.00	48.00
6	15 to 18	49.00	54.00
8	20 to 24	61.00	66.00
10	25 to 30	73.00	78.00
12	30 to 36	85.00	90.00

Subject to special discount.

No. 2 Family Class and No. 2 Dairy Class are not made with separate refrigerator compartment unless so ordered.

The above prices do not include partitions, nor more than one water faucet. If partitions or extra water faucet is wanted they will be furnished at \$1.00 each.

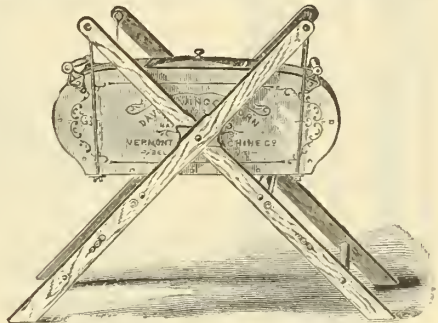
## FLOATING GLASS THERMOMETERS

Price .....	25c. each.
Eight-inch Dairy Thermometer stands boiling water.	.....
Price.....	50c. each.
Milk Hydrometer, No. 2080.	40c.
Milk Hydrometer No. 2085 (Quevenne).	75c.

Add 5c. each, if by mail, to pay postage.



## DAVIS SWING CHURN.



EASY TO KEEP CLEAN.

The round ends of the Churn cause the cream as it strikes against them to slide up and over, turning a complete somersault, consequently the cream is thoroughly agitated.

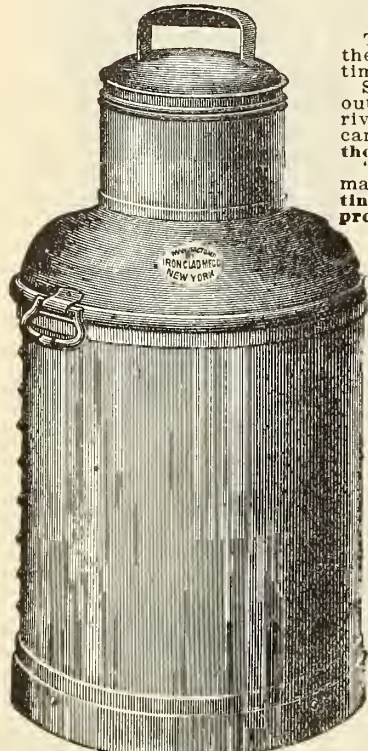
The butter comes in beautiful granules in the most desirable form for washing in cold water or brine.

Each Churn has a glass indicator in the cover, thus enabling the operator to tell when the butter comes without raising the lid. The lid is ventilated, and there is no slopping or dripping of cream. Easy to operate; in fact, any child can do it.

No.	Capacity.	List Price.	Retail Price.
1.	4 gallons or less.	\$7.00	.....
2.	8 " "	8.00	.....
3.	10 " "	10.00	.....
4.	12 " "	12.00	.....
5.	13 " "	15.00	.....
6.	17 " "	18.00	.....
7.	30 " "	25.00	.....

## THE DAIRY—Continued.

### “Iron Clad” Milk Cans.



BALTIMORE PATTERN.

**The Baltimore Pattern.**  
This cut illustrates it. It is the standard “Iron Clad” Baltimore Pattern Milk can. Smooth inside surface, without crevices or protruding rivet heads, which enables cans to be easily, quickly and thoroughly cleaned.

“Iron Clad” Milk Cans are made of steel and heavily tinned by the hand-dipping process AFTER they are formed.

Look for the Trade-Mark “Iron Clad” stamped in each and every can. No other tinplate cans bear this trade-mark.

We also carry a cheaper can, known as the

**BALTIMORE CREAMERY CAN,**  
in order to meet the demand for a lower-priced article.  
They are well made, but not so heavily tinned.  
Our charge for marking name on can will be 25 cents each.

**THE BALTIMORE PATTERN.**  
20-quart..... \$2.10  
30-quart..... 2.40  
40-quart..... 2.90

**Special Prices in Quantities. BALTIMORE CREAMERY CAN.**  
20-quart..... \$1.85  
Marking names on all cans..... 25c.



IOWA.

### Iowa Creamery Can.

Marking names on all cans, 25c. each.

**SPECIAL PRICES IN QUANTITIES.**

20-quart..... \$1.75  
32-quart..... 2.00  
40-quart..... 2.15

### 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.



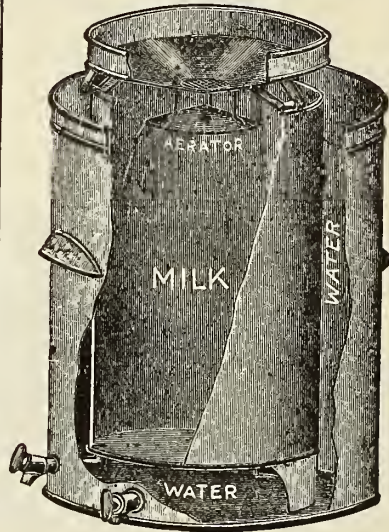
No.	Capacity of Milk Receiver.	Size of Dairy.
1.....	10 quarts	1 to 10 cows
2.....	18 quarts	10 to 25 cows
3.....	34 quarts	25 to 50 cows
4.....	52 quarts	50 to 100 cows

No.	Takes Care of	List Price.	Retail Price.
1.....	2 milkers	\$7.00	\$5.50
2.....	3 milkers	7.00	5.50
3.....	5 milkers	8.00	6.50
4.....	8 milkers	10.00	8.00

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. 1 and 2, \$1. No. 3, \$1.25. No. 4, \$1.50.

### The “North Star” Ventilating and Aerating Double Compartment Cream Separator.



No. 1, capacity 1 to 2 cows, 6.00; No. 2, capacity 3 to 4 cows, \$7.00; No. 3, capacity 4 to 5 cows, \$8.00; No. 4, capacity 5 to 6 cows, \$9.00. Write for special discount for Cash.

There has long been a demand for a device that would not mix milk and water. In some localities people are averse to adding water to milk, and to meet this demand we are putting a two-compartment separator on the market.

Separation is effected by a circulation of cold water in an outer jacket. All the cream rises to the surface in an hour or two, and is drawn off sweet, suitable for table use or other purposes.

The milk strikes the disc below and spreads out in a thin sheet. The milk receptacle being plunged in cold water, when this thin sheet of warm milk strikes the sides and bottom, forces cold air upwards through the milk, escaping in sheets from aerator, thus driving out all animal heat or foul gases,

### 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.

The reversible cover and anti-whirlpool bottom, also the method of aerating the milk, are the same as found in the NORTH STAR. The only difference in the two lies in the single and double compartment feature.

No.	Dia.	Height.	Gals.	Cows.	Price.
1..	12 in.	25 in.	10	2 to 3	\$5.00
2..	14 in.	27 in.	15	3 to 4	6.00
3..	17 in.	27 in.	22	4 to 7	7.00
4..	19 in.	27 in.	29	7 to 10	8.00

Write for Special Discount for Cash.

### Aquatic Cream Separator.

Write for Special Discount for Cash. FOR THE RAPID SEPARATION OF CREAM FROM MILK BY THE DILUTE PROCESS.

By using this Cream Separator the separating may be done in any convenient place, as the milk goes direct from the cow to the separator. No machinery to run or look after. No ice required. No chemicals used. Will run itself while you are doing other work. Within 30 to 60 minutes the cream is all raised; you turn the faucet, draw off the milk, then the cream, wash the Separator, and the job is done. Use as much good well water as milk.

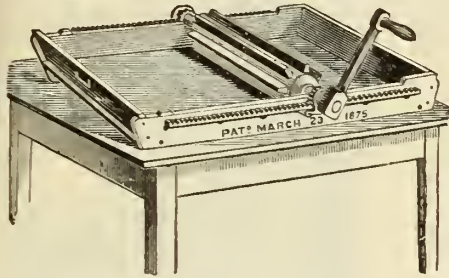
**PRICE-LIST AND DIMENSIONS OF AQUATIC CREAM SEPARATORS.**

0	Dia.		Gals.	Cows.	Lbs.	Price.
	in.	Height.				
0	11	23	7	1 to 2	60	\$5.00
1	12	27	11	2 to 4	100	7.00
1½	15	27	18	3 to 4	150	8.00
2	18	27	30	5 to 7	200	9.00
3	23	29	50	8 to 15	400	11.00

Directions Furnished With Each Separator



## THE DAIRY—Continued.



**REID'S BUTTER WORKER.**

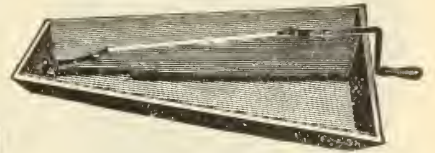
No.	Measurem't.	Inside Capacity.	Lbs.	Wght.	List Price.	Retail Price.
1.	23x36x2½ in.	50	43		\$10.00	\$8.00
2.	20x36x2½ in.	30	29		8.00	6.40
3.	17x27x2½ in.	20	25		7.00	5.60
4.	14x24x2½ in.	10	20		6.00	4.80

Larger size, especially designed for mixing, re-working and coloring, or creamery use.

No.	Measurem't.	Inside Capacity.	Lbs.	Wght.	List Price.	Retail Price.
0.	23x37x3 in.	75	60		\$12.00	\$9.38
00.	23x56x3 in.	112	80		15.00	11.25
000.	23x72x3 in.	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.

**ACME BUTTER WORKER.**  
The Greatest Labor Saver for the General Butter Maker Ever Introduced.



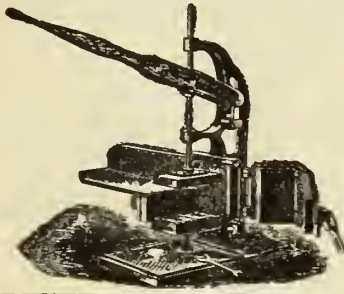
It is the only worker made in which butter can be washed (same as in bowl), then the water drawn off and the butter worked without delay. \$2.00.

**WELLS, RICHARDSON & CO.'S BUTTER COLOR.**

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 pound, 9x12 for one pound, and 10x15 for two pounds. Price, 20c. per pound; by mail, 35c.; 6 pounds, \$1.00.

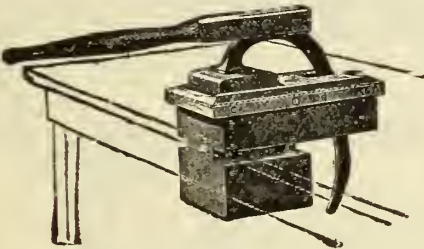


**REID'S SELF-GAUGING BUTTER PRINTER.**

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.

**PRICE.**  
Either pound or half pound..... \$10.00  
Both pound and half pound combined... 13.50  
Extra for initials and monograms..... 1.50

**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.



Fig. 2.

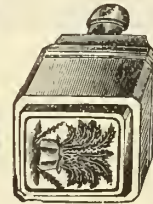


Fig. 3.

**EXTRA HEAVY BRICK BUTTER MOULD.—Philadelphia Pattern.**

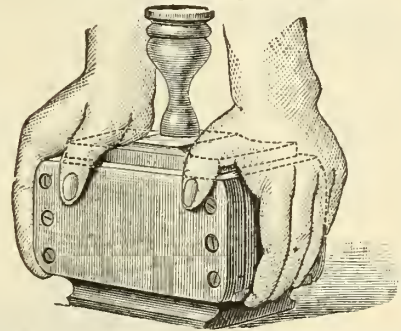


Fig. 4. (This shows the way the mold is used.)

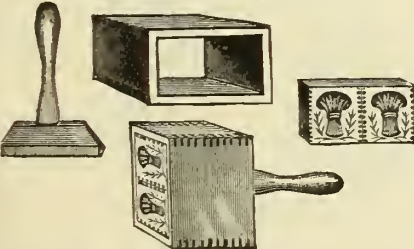
**BUTTER BOXES.**



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 half-lb. prints.....	\$4.50
64 " " ".....	5.25
80 " " ".....	5.50
100 " " ".....	6.00
120 " " ".....	6.50
140 " " ".....	7.00
20 pound " ".....	3.75
30 " " ".....	4.25
40 " " ".....	4.75
56 " " ".....	5.00
80 " " ".....	5.50
96 " " ".....	5.75
120 " " ".....	6.00

**BRICK BUTTER MOULD.**



Seeley Pattern.

Furnished with sheaf of wheat. Movable block, ½ pounds.  
Seeley Pattern.....60c.

**LADLES AND SPADES.**

No. 1 Spades.....10c.  
Same, 4x12 inches.....10c.  
Factory size, 16x7½ inches.....40c.



Round Prints, ½ lb...10c.  
Round Prints, ¼ lb...10c.

**INDIVIDUAL BUTTERS.**

Square, ½ ounce.....15c.  
Square, 1 ounce.....15c.  
Round, 1 ounce.....10c.

Fig. 2—R. & B. ¼ lbs., round.....\$0.25  
Fig. 2—R. & B. 1 lb., round..... .30  
Fig. 3—R. & B. ½ lb., square..... .30  
Fig. 3—R. & B. 1 lb., square..... 35c.  
Fig. 4—Philadelphia Pattern, ½ lb.....\$1.00  
Fig. 4—Philadelphia Pattern, 1 lb..... 1.50  
Can furnish square moulds to order with initials cut at an extra cost of \$1.00.

**POLISHED MAPLE BOWLS.**

Bowls, 15 inches.....25c.  
Bowls, 17 inches.....40c.  
Bowls, 19 inches.....60c.

**THE CHAPMAN PATENT CHANGEABLE STRAINER.**

Model No. 2—With Cheesecloth Attached. For the use of small dairies or for household purposes, for which a medium-sized strainer is used, such as fruit, paint, vinegar, lard, etc.

**Model No. 3—With Cheesecloth Attachment.**

Especially adapted to the use of large top straight cans. The shape of No. 3 is such that it can be used on any sized can, either small or large top.  
Chapman, Model No. 2.....\$0.75  
Same, Model No. 3..... 1.00

**PYRAMIDAL MILK STRAINER.—See cut. Extra Heavy, Retinned.**

Will Not Clog. Has Long Straining Surface.  
Fig. 8—Pyramidal Strainer, with rest.....\$1.25  
Same without rest..... 1.10

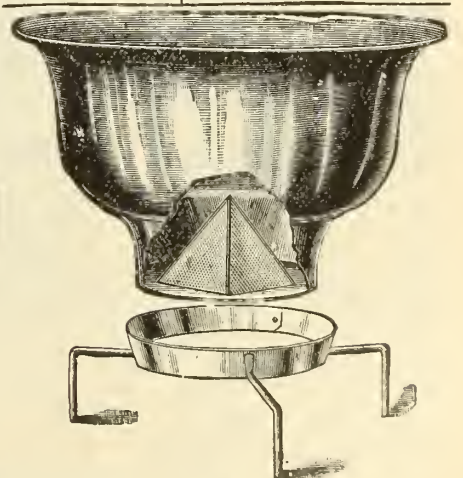


Fig. 8.

## THE DAIRY CONTINUED.



### SO-BOS-SO

(KILFLY.)

**SO-BOS-SO** (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.

**ACME LIQUID ATOMIZER.**—Tin. (See cut), 50c.



**ELECTRIC SPRAYER.**—Price 50c.

### COMMON SENSE Calf Feeder

**Gold Medal Pan-American Exp.** The only feeder adopted by Experiment Stations.

**Satisfaction guaranteed.** Easiest to operate and clean. No valves to get clogged or foul.

**Prevents Scours.**

Weans perfectly. Calves take to it like a baby to the bottle.

**It's Nature's Own Way.** Over 100,000 in Use.

Extra gain on one calf pays for two feeders.

Durable, Simple, Economical, Scientific and Practical.

Nipples are reinforced without seams.

THE underlying principle of the Calf Feeder is: The calf by sucking its milk takes it slowly and mixes the saliva of the mouth with the milk, which makes it spongy instead of a solid indigestible lump formed when the milk is gulped down from a bucket. This is the greatest cause of scours. We have both a single and double feeder. One calf can use the double feeder, as each part works independently of the other.

**COWS' RELIEF.**—Cures caked hags, heals sore teats, cures spider in the teat. The original.

**CALVES' CORDIAL.**—Cures scours in cows and calves in one day.

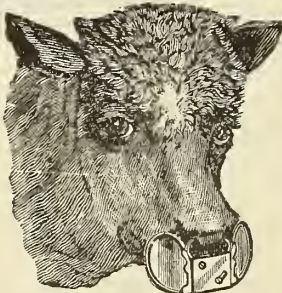
**ARABIAN SCRATCHES AND GALL CURE** is without an equal. It cures every horse every time.

- Single Calf Feeder (2 nipples)..... \$1.50
- Double or Twin Feeder..... 2.00
- Calf Nipples and Long Tubing, each.. .15
- Cows' Relief—½ pound box..... .50
- Cows' Relief—1½ pound box..... 1.00
- Calves' Cordial..... .50
- Arabian Scratches and Gall Cure—3 ounces..... .25
- Arabian Scratches and Gall Cure—9 ounces..... .50

### The Keystone Calf Feeder

Each, \$1.50

Solves the farmer's trouble and the calves' too. It is a perfect substitute for the natural method, and the calf, when taken from the cow, does not have to learn a new way of feeding. It can even butt to its heart's content and not hurt itself the least bit, while all the time a stream of nourishing food is gently trickling down the throat. The food has been mingled with saliva, secreted as a result of the calf's efforts at sucking and chewing, and is in proper condition to be absorbed into the system. The result is that the calf is strong and healthy, it looks sleek and fat, and it has a glossy coat.



### Rice's Calf Weaners.

Also Prevents Cows From Sucking Themselves.

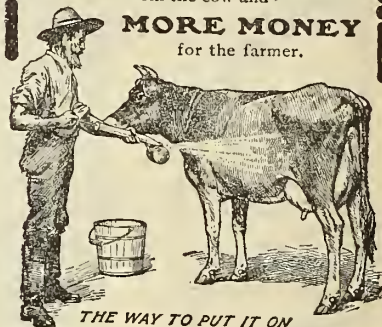
No. 1, for Calves, retail price 30c. List price per doz., \$4.00.

No. 2, for Heifers, retail price 50c. List price per doz., \$6.50.

No. 3, for Cows, retail price 75c. List price per doz., \$9.75.

### Cow-Ease

(Trade Mark Registered.)  
**MEANS MORE MILK**  
from the cow and  
**MORE MONEY**  
for the farmer.



**Cow-Ease Will Kill All Lice and Vermin.**

**WHEN TO APPLY COW-EASE.**

**The Best Time.**—For cows, before milking in the morning. For horses, before driving. In very sultry weather it should be applied every day.

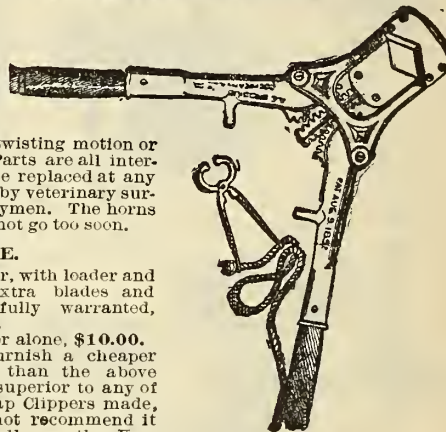
Any of our Atomizers described on page 73 will apply Cow-Ease very nicely and economically. Contains nothing injurious, and is absolutely harmless if it is used as directed. It does not gum the hair or blister the skin.  
List Price Qt., \$4.25 Doz. List Price Gal., \$1.00 Each.  
Retail Price Qt., 35c. Retail Price Gal., 75c.

### Trapp's Patent Cow Tail Holder

If you wish to make it pleasant in milking, you should use **Trapp's Patent Cow Tail Holder**. Does not irritate or make a cow kick. Easily and quickly operated. Holds the tail firmly.  
Retail price..... 15c. Two for..... 25c.

### THE KEYSTONE DEHORNING CLIPPERS

The practice of dehorning cattle is coming more and more into vogue. It is a mercy to the animals. Prevents goring. Does not crush the horns. No twisting motion or second cut on horn. Parts are all interchangeable, and can be replaced at any time. It is approved by veterinary surgeons and leading dairymen. The horns must go, and they cannot go too soon.



**PRICE.**

Clipper, with loader and rope, extra blades and screw, fully warranted, \$12.00.

Clipper alone, \$10.00.

We furnish a cheaper Clipper than the above that is superior to any of the cheap Clippers made, but do not recommend it as broadly as the Keystone, which has no equal. Price, \$8.00.

### Perfection Calf Dehorner



ANYONE CAN OPERATE IT.

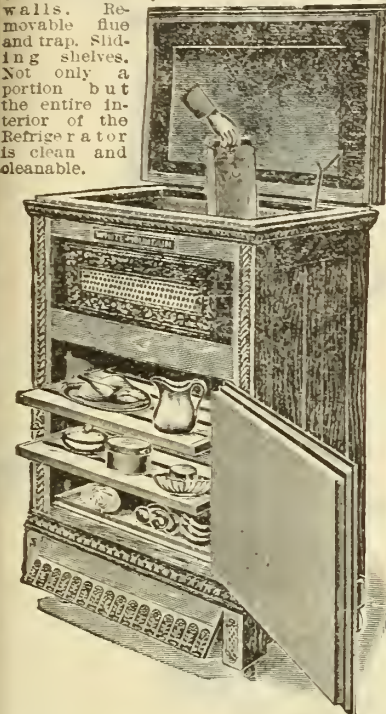
**PRICE LIST.**

- Perfection Calf Dehorner, including sample box of Perfection Cream, and full instructions for operating, etc.
  - Net, Plain..... \$3.50
  - Net, Nickel-Plated..... 5.00
  - Perfection Cream, per pound..... .50
- Discount on Five-Pound Orders.



## "WHITE MOUNTAIN" REFRIGERATORS

Easily accessible. Provision chambers cleanable in every corner. Thick, air-tight walls. Removable flue and trap. Sliding shelves. Not only a portion but the entire interior of the Refrigerator is clean and cleanable.

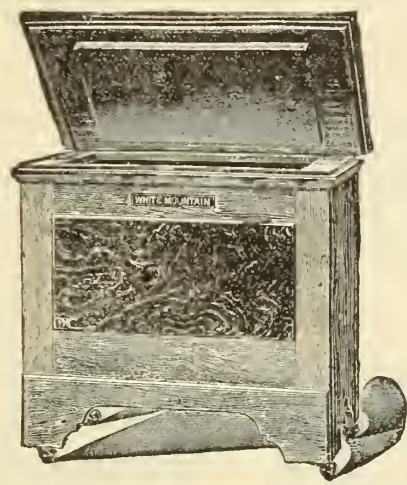


## White Mountain Pine Refrigerator.

These are made from the best quality of well-seasoned pine lumber, handsomely finished in the new and beautiful "flaked golden oak."

No.	Lbs. Ice.	Length.	Depth.	Height.	Factory Price.	Retail Price.
101	30	24 inch.	18 inch.	38 inch.	\$13.75	\$6.88
103	80	30 inch.	20 inch.	43 inch.	19.25	9.63
104	100	33 inch.	21 inch.	45 inch.	22.25	11.15

## WHITE MOUNTAIN ICE CHESTS.



They have thick, heavy walls; thoroughly insulated; galvanized steel shelves and ice racks, and are mounted on casters that will not drop out.

No.	Length.	Depth.	Height.	Factory List Price.	Retail Price.
No. 2 1/2	27 in.	20 in.	27 in.	\$9.25	\$4.65
No. 3	29 in.	21 in.	29 in.	12.00	6.00
No. 4	31 in.	22 in.	31 in.	14.50	7.25
No. 6	35 in.	23 in.	33 in.	17.25	8.65

## Ice Chipper.

**JUST THE THING TO USE WITH AUTOSPIN FREEZER.**

Takes the place of the old-time bag and hatchet; quickly reduces the ice to uniformly small pieces, about the size of peanuts. Ice chipped in such pieces, cream can be frozen more rapidly and smoothly because it packs more solidly around can.

PRICE.....15c.

## White Mountain Hardwood Refrigerator.

The illustration above shows our single door "White Mountain" Refrigerator made from hardwood and finished in our beautiful "golden oak." They are trimmed with a lever surface lock of strong and handsome design and with hinges of a pattern to correspond. Heavy air-tight walls, thoroughly insulated, swing base, sliding shelves of galvanized steel.

No.	Lbs. Ice.	Length.	Depth.	Height.	Factory List Price.	Retail Price.
112	45	26 inch.	19 inch.	43 inch.	\$18.75	\$ 9.87
113	80	30 inch.	20 inch.	43 inch.	23.00	11.50
110	100	33 inch.	21 inch.	45 inch.	26.00	13.00

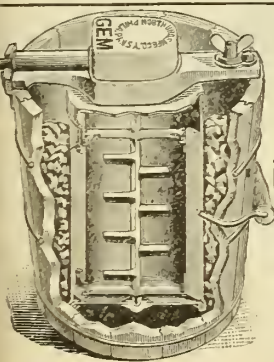
Refrigerators fitted with porcelain-lined water coolers, 6.50 3.25

## White Mountain Grand Refrigerator.

Nos. 203 and 204.

Our patent "Maine" ice grate takes out through the top. The basket is entirely independent from this grate, resting on same when in place, but taken out separately. A new and interesting feature of this Refrigerator is the fact that the shelves slide back and forth, so that an article at the back of the Refrigerator is easily obtained without reaching for it.

No.	Lbs. Ice.	Length.	Depth.	Height.	Factory List Price.	Retail Price.
203	80	30 inch.	21 inch.	44 inch.	\$28.75	\$14.37
204	100	33 inch.	22 inch.	46 inch.	32.25	16.15



### THE GEM FREEZER.

We are also prepared to furnish Gem and Blizzard Freezers at the following prices:

1-quart.....\$1.60	4-quart.....\$2.75
2-quart..... 1.85	6-quart..... 3.40
3-quart..... 2.25	8-quart..... 4.25

### THE BLIZZARD FREEZER.

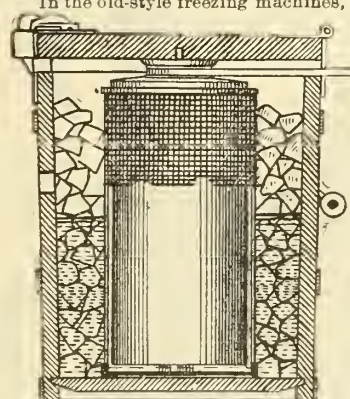
This is pre-eminently the best low-priced Freezer on the market. Easy running; economical and convenient in use. Single action. Dasher is same as in GEM, and has Automatic Twin Scrapers.

1-quart.....\$1.50	4-quart.....\$2.50
2-quart..... 1.80	6-quart..... 3.00
3-quart..... 2.00	

## Autospin Freezer.

A REVOLUTION IN ICE CREAM FREEZING.

The Autospin is made to spin like a top, because frozen liquids float, and because floating things go to the centre of a whirlpool.



In the old-style freezing machines, the cream in the centre is the last to be frozen; but the Autospin, from the start, whirls the nearly frozen cream into the centre, and as fast as Nature throws off the heat accumulates it there, until the can is reached. At this point the resistance of the ice cream that now becomes frozen to the can, to the escape of heat from the center, first affects the Autospin, but the cream is already at the freezing point clear to the centre. Hence this law cannot greatly delay solidification.

The can holding the cream is inside a perforated cage, which comes next to the ice, and through the perforations the brine comes in contact with the can holding the cream and no matter how solid the cream becomes the revolving can works with perfect freedom. It is no harder to work when cream is solidified than when in a liquid state.

	List.	Retail.
2-quart.....	\$2.35	\$1.90
3-quart.....	2.70	2.25
4-quart.....	3.00	2.45
5-quart.....	3.35	2.75
6-quart.....	3.65	3.00
7-quart.....	4.00	3.25

# SPRAYS, PUMPS, Etc.

## Gould's Brass Bucket Pumps.



Fig. 1129.

Fig. 1129.—"Bordeaux" Brass Garden and Spray Pump is especially designed for spraying in gardens and greenhouses. The pump is double-acting in effect, has gutta-percha ball valves, proof against the action of acids and oils. Foot piece is malleable iron. The pump end of discharge hose is wire wound, adding largely to its durability. "Seneca" nozzle is furnished with pump. A most excellent pump for whitewashing.

Price, with three feet of 3/8-inch discharge hose and spray nozzle:  
Retail price.....\$3.75. List price.....\$6.00.

## Brass Barrel Sprays.

Cylinder Valves, Valve Seats and Discharge. All Brass.

All working parts submerged in liquid, hence no priming is necessary. Patent

Agitator. No complicated parts. Throws constant spray.

No. 305, Fig. 702.—Complete with five feet of hose and Agitator.  
List price.....\$10.00. Retail price.....\$7.00.

No. 306, Fig. 766.—Complete with two leads of hose of 1/2-inch three-ply, each five feet long, and two Myers' Vermorel Nozzles and Agitator.  
List price.....\$12.00. Retail price.....\$8.00.

Bordeaux Nozzles instead of Vermorel furnished when wanted.

Installed in barrel, \$2.00 extra.

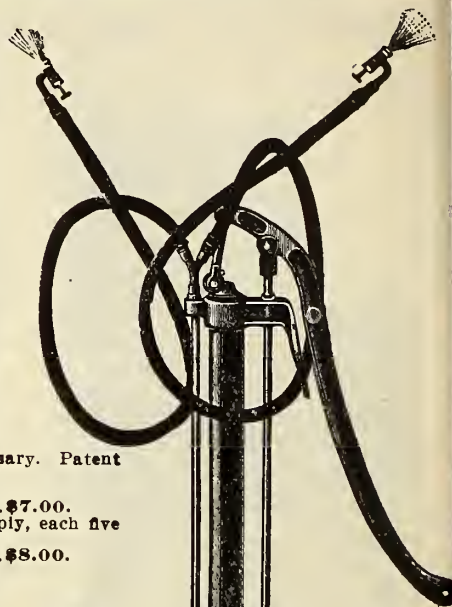


Fig. 766.

## 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 PUMPS SHOWN.

No. 327 1/2, Fig. 639.—Bucket Brass Spray Pump with Agitator, complete with hose and combination fine, coarse spray and solid stream nozzle.  
List price.....\$5.00.  
Retail price.....3.00.

No. 328, Fig. 639.—Bucket Brass Spray Pump with Agitator, complete with hose and combination fine, coarse spray and solid stream nozzle and an eight-foot pipe extension.  
List price.....\$5.50.  
Retail price.....3.35.

## Spray Pump Extras.—Order By Figure.

Fig. 48.—Bamboo Extension Rods, have eight-foot brass pipe inside of bamboo and arranged with brass stock cock cut 1/2 inch, female thread adapted for attaching to hose by either Figs. 65 or 67 attachments.

Fig. 48.—Bamboo Rods, lined with brass pipe.....\$3.00

Fig. 545.—Iron pipe, complete, with cock.....1.00

Iron pipe without cock......35

Fig. 65.—To make connection between 1/2 or 3/4-inch hose, coupling and spray nozzle or pipe extension......25

Fig. 67.—Has one male end to wire into 1/2 or 3/4-inch hose, other end cut 1/4-inch male pipe thread, to attach to spray nozzle or pipe extension......25

Fig. 85.—Brass stop cock shank for wiring 1/2-inch hose, other end 1/4-inch male thread......65

Fig. 54.—Brass stop cock, cut 1/4-inch female pipe thread both ends......65

## BRASS HOSE COUPLINGS (Fig. 604).

Size, inches..... 1/2      3/4      1      1 1/2      2

Price, each..... 15c.    15c.    25c.    75c.    \$1.00

3/4-inch brass nipples, 25c.

Wing Agitator comp. for Pomona.....\$1.50

Wing Agitator comp. for Fruitall.....1.25

Fig. 49.—Brass Y with male pipe thread on inlet......80

Fig. 49 1/2.—Brass Y, female thread on inlet, for two nozzles......80

Fig. 107 1/2.—Brass Y for two nozzles......50

Fig. 107 1/4.—Brass U-shaped Y for two nozzles......50

## FUNNEL AND STRAINER (Fig. 1273).

Tin, with tin 20-mesh wire strainer.....\$1.25

Tin, with brass 20-mesh wire strainer.....1.75

Galvanized, with brass 20-mesh wire strainer.....1.75

## HOSE CLAMPS (Fig. 1272).

A screwdriver does the business.

Size, inches..... 1/2      3/4      1      1 1/4      1 1/2      2

Price, each..... 5c.    5c.    10c.    15c.    20c.    25c.

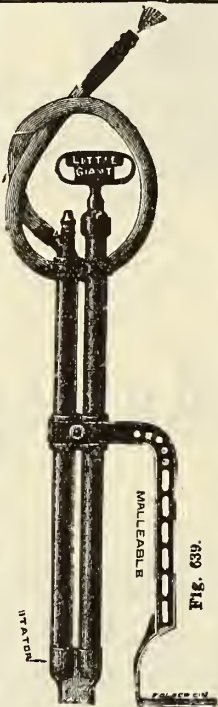


Fig. 639.

## Lever Bucket Spray Pumps.

Fig. 632.

FOR San José Scale Spray with Kil-o-Scale.

PATENT AGITATOR

FOR WHITEWASHING AND PAINTING. Always Use Bordeaux Nozzles For This Work. 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.

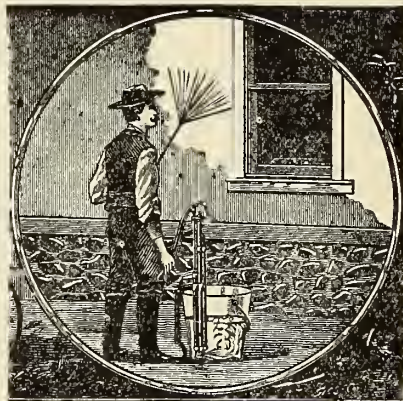


Fig. 632.

the inside with water, so as to remove all lime to prevent clogging.

FIGURE 632.

No. 324.—Lever Bucket Spray Pump, with Agitator, complete, with hose and nozzle.

Factory list price.....\$6.00

Our Special Price.....4.00

No. 324A.—Lever Bucket Spray Pump, with Agitator, complete, with hose, nozzle and eight-foot pipe extension.

Factory list price.....\$6.50

Our Special Price.....4.35

If wanted for whitewashing or painting, so state in order, and Bordeaux nozzle will be sent.

Installed in barrel at \$2.00 extra.

SPRAY WITH KIL-O-SCALE. SEE PAGE 75.

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

# SPRAY PUMPS, Etc.

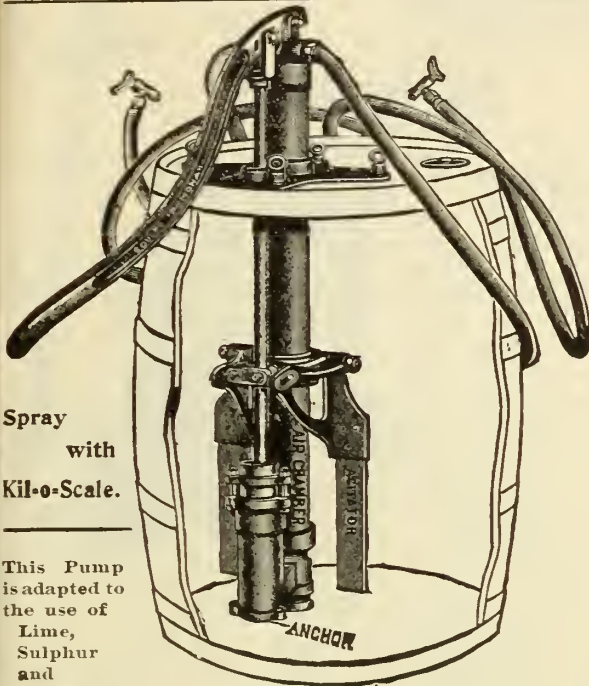
## Gould's "Pomona" Spray Pump.

WITH AGITATOR. ALL WORKING PARTS BRONZE.

No leather packing. Valves are brass; easily accessible; wing guided on beveled seats, ground to fit. Air chamber steel. Lever long and powerful, with adjustable stroke, 3, 4 or 5-inch. Solid brass plunger, machine turned, fitting gland accurately. Pump is held securely by adjustable clamp plate, made to fit either end or side of barrel, and by a small anchor located at bottom of barrel. The mechanical agitator is operated by stroke of the handle.

Figure 1100. SIZES, PRICES, ETC.

We mount the "Pomona" Spray Pump in barrel, ready for use, at an additional net cost of \$2.00.



(FIG. 1100)

	PLUNGER.			List Price.	Retail Price.	
	Dia. 2½ in.	Stroke, Adjustable to 3, 4, 5 in.	Discharge, ½ in. hose.			
FIG. 1100. OUTFIT A FOR SINGLE LEAD.	Fitted for one lead ½ in. discharge hose with hose bands, couplings, agitator and 1 Vermorel (or other spray nozzle), but without hose.....			19.50	13.25	
	Rubber hose, extra per foot, ½ in. XX					.10
	½ in. spray, No. 1					.12
	" " 2					.15
	Barrel extra.....				2.00	
FIG. 1100. OUTFIT B FOR DOUBLE LEAD.	Fitted for two leads ½ in. discharge hose with hose bands, couplings, agitator and 2 Vermorel (or other spray nozzles), but without hose.....			22.50	17.50	
	Rubber hose, extra per foot, ½ in. XX					.10
	½ in. spray, No. 1					.12
	" " 2					.15
	Barrel extra.....				2.00	

These Pumps, Figs. 1100 and 1188 are peculiarly adapted to the use of lime, salt and sulphur solution, but can also be used for other insecticides.

### USE KIL-O-SCALE.

Figure 1188.—PUMP, EQUIPMENT, ETC.

	PLUNGER.			List Price.	Retail Price.	
	Dia. 2 in.	Stroke, 4 in.	Discharge, ½ in. hose.			
OUTFIT A, FOR ONE LEAD OF HOSE.	Fitted for one lead of ½ in. discharge hose with hose bands, couplings, agitator and 1 Vermorel (or other spray nozzle), but without hose.....			14.00	10.75	
	Rubber hose, extra per foot, ½ in. XX					.10
	½ in. spray, No. 1, for caustic washes					.12
	" " 2, " " "					.15
	Barrel extra.....				2.00	
OUTFIT B, FOR TWO LEADS OF HOSE.	Fitted for two leads of ½ in. discharge hose with hose bands, couplings, agitator and 2 Vermorel (or other spray nozzles), but without hose.....			16.60	13.00	
	Rubber hose, extra per foot, ½ in. XX					.10
	½ in. spray, No. 1, for caustic washes					.12
	" " 2, " " "					.15
	Barrel extra.....				2.00	

NOTE.—The Nos. 1 and 2 are for Caustic Washes.

## Gould's "Fruitall" Spray Pump. With Agitator. All Working Parts Bronze.

FIGURE 1188.—"Fruitall" Spray Pump is made on the same general lines as our now famous "Pomona." It is, however, lighter and of smaller capacity. All working parts, including plunger, gland, valves, valve seats and strainer, are of brass. Regularly fitted with wing agitator similar to one used on "Pomona," and which has proven to be the best type. Pump is held in barrel by anchor at bottom and adjustable clamp at top, fitting over end of stave. Not made for side of barrel. The agitator is a perfect working device and answers every purpose for anyone desiring a lighter and cheaper pump.

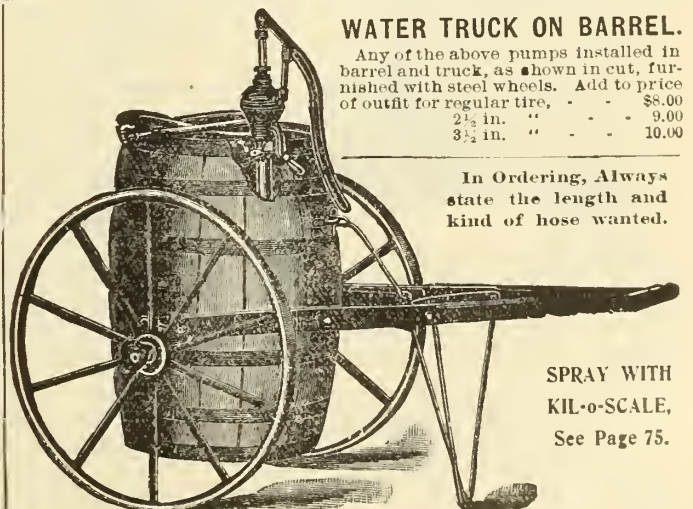


Spray with  
Kil-o-Scale.

THIS PUMP IS ALSO ADAPTED TO THE USE OF LIME, SULPHUR AND SALT SOLUTION.

## WATER TRUCK ON BARREL.

Any of the above pumps installed in barrel and truck, as shown in cut, furnished with steel wheels. Add to price of outfit for regular tire, - - - \$8.00  
2½ in. " - - - 9.00  
3½ in. " - - - 10.00



In Ordering, Always state the length and kind of hose wanted.

SPRAY WITH  
KIL-O-SCALE,  
See Page 75.

SPRAY PUMPS, Etc.

Gould's "Monarch"  
TWO-CYLINDER SPRAY PUMP.

Vertical Outside Packed, Bronze Plungers, Bronze Glands, Valves, Etc.

Fig. 1318. "Monarch." has two bronze plungers operating in two vertical cylinders, which are packed with a material unaffected by spraying solutions. This construction permits all gritty particles to pass through the valves and out, and does not grind the cylinder. The ports are large and direct. The valves are bronze, ground to fit their bronze seats, are accessible through handholes. The lever is so arranged as to be operated in two positions. The "Monarch" combines large capacity and ease of operation, and we do not hesitate to say that this is the easiest operated Pump of its capacity on the market.



Fig. 1318.

PUMP, EQUIPMENT, ETC.

No. 0.	Dia. Cyls. 2 in.	Suction, 1/4 in. hose.	Discharge 1/2 in. hose.	List Price.	Retail Price.
FIG. 1318. Outfit C, for one lead of 1/2 in. discharge hose.	Fitted for 1/4 in. suction hose and one lead of 1/2 in. discharge hose, with strainer, hose bands, couplings, and one Vermorel (or other spray nozzle), but without hose.....			28.50	21.50
FIG. 1318. Outfit D, for two leads of 1/2 in. discharge hose.	Fitted for 1/4 in. suction hose and two leads of 1/2 in. discharge hose, with strainer, hose bands, couplings, and two Vermorel (or other spray nozzles), but without hose.....			32.25	24.50
FIG. 1318. Outfit E, for four leads of 1/2 in. discharge hose.	Fitted for 1/4 in. suction hose and four leads of 1/2 in. discharge hose, with strainer, hose bands, couplings, and four Vermorel (or other spray nozzles), but without hose.....			37.50	28.50
	Rubber Hose for above Outfits.				.10
	1/2 in. XX per foot.....				.12
	1/2 in. spray, No. 1, for caustic washes				.15
	" 2, " " " "				.16
	3/4 in. suction.....				.16
	In ordering, please give length of hose wanted, also the outfit.				

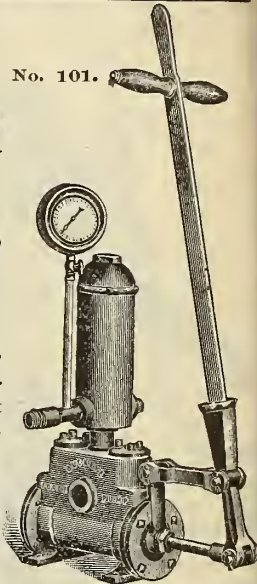
Baltimore  
Horizontal  
Force Pump.

No. 101.

FOR SPRAYING PURPOSES.  
Brass-Lined Cylinder.  
Brass Plunger Rod.  
Brass Valve Seats.

A powerful spray pump, designed for heavy, continuous work, where great pressure is required, as in spraying tall trees.

All working parts are of brass, which are unaffected by any spraying liquid, and the pump is fitted with extra large air chamber and pressure gauge registering up to 200 pounds.



PUMPS, EQUIPMENTS, PRICES, ETC.

No. 101.	Fitted for 1 in. suction hose and one lead of 1/2 in. discharge hose, with strainer, hose bands, couplings, and one Vermorel (or other spray nozzle), but without hose.....	List Price.	Retail Price.
Outfit A, for one lead of 1/2 in. discharge hose.		27.00	20.25
No. 101.	Fitted same as above, except it is provided for two leads of hose and two Vermorel (or other spray nozzles),.....	30.00	22.25
Outfit AA, for two leads of 1/2 in. discharge hose.			
	Rubber Hose for above Outfits.		
	1/2 in. XX.....		.10
	" spray, No. 1, for caustic washes		.12
	" 2, " " " "		.15
	1 in. suction.....		.20

Field Crop  
Sprayer.

Used in  
Connection  
with any  
Hand or  
Power  
Spray Pump.

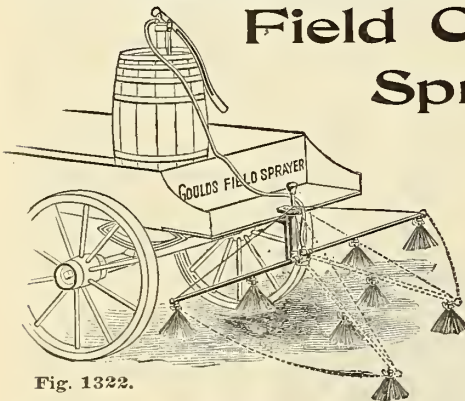


Fig. 1322.

Fig. 1322 consists of two sections of iron pipe (having 4 or 6 Nozzles), hinged at one end and fastened to wagon attachment. It is made to spray four or six rows, and distance apart up to 44 inches, or cover a space 14 1/2 or 22 feet in width. Connection allows Sprayer to be easily raised or lowered; spray to be thrown forward, backward, up or down. It may be folded to pass anywhere with the wagon. It is the simplest, cheapest and most convenient Sprayer of its kind.

Pump and hose not included in price.

For prices on pump and hose see page 71.

Fig. 1322. Equipment, Etc.

Complete with four "Vermorel" or "Seneca" Nozzles and coupling for connecting to discharge hose of any barrel or power sprayer. List Price \$10.00. Retail Price \$8.00.

Same with six "Vermorel" or "Seneca" Nozzles. List Price \$12.50. Retail Price \$10.00.

Spraying  
Tanks.

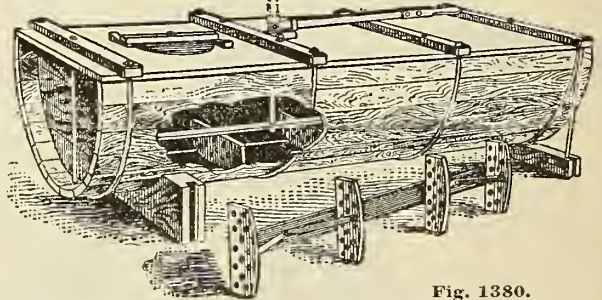


Fig. 1380.

Fig. 1380 shows a Wooden Spraying Tank built from the ideas of some of the largest fruit-growers in Western New York.

The staves are made of 1 1/2-inch pine, strongly gripped with steel and hardwood. The joints are machine made, and are perfect. The tank weighs about 200 pounds, is eight feet long, three feet wide, and holds 200 gallons of liquid. It has one tight and one loose bolster, and will set on the bolsters of any ordinary farm wagon. The top of Tank is very strong, and allows Spray Pump to be firmly fastened thereon, and also will accommodate the operator. Tanks furnished with or without an agitator. The agitator (see engraving) keeps the liquid thoroughly stirred all the time, so the last gallon of spraying mixture is just as strong as the first used. Paddles of agitator are bound with steel and run on a steel track in bottom of Tank. The handle is made so that it can be instantly tipped back in passing under low limbs of trees. Agitator may be taken out through hand-hole and Tank used for hauling water when wanted.

Fig. 1380. Equipment, Etc.

Tank with Bolsters and Agitator. Price.....\$20.00  
Above without Agitator. Price.....\$18.00

## SPRAY PUMPS, Etc.—Continued.

### LEVER KNAPSACK SPRAY PUMP.



Fig. 552  
WASHING  
NOZZLE.

FIGURE 547.

Tank holds five gallons, is fitted with lid and strainer, which can be removed. This Pump has lever, large air chamber, ball valves, solid plunger and agitator. It is so arranged that no water can drip on the operator. The Pump can be easily removed, and is fitted with handle, so that the operator can use it the same as our tank with bucket pump.

No. 330, Fig. 547.—Fitted with five feet one-half inch hose, pipe extension and Bordeaux spray nozzle; can be graduated from a fine mist to a solid stream, or shut off entirely. Retail price, \$6.00. List price, \$10.00.  
Any other nozzle furnished with these Pumps when ordered.

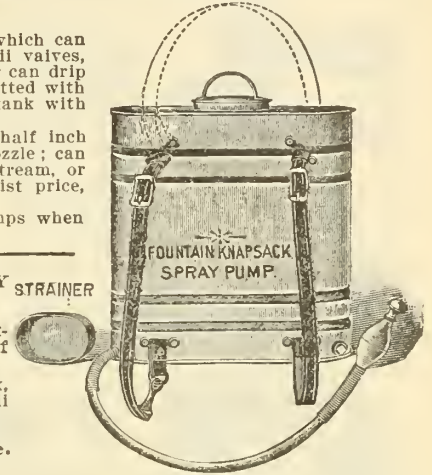
#### THE PERFECT KNAPSACK SPRAY PUMP (Fig. 547).

It is identically the same as 330, with the exception that the tank is constructed entirely of copper.

No. 331, Fig. 547, complete with hose, stop-cock, pipe extension and Bordeaux nozzle. Retail price, \$10.00. List price, \$16.00.

First-Class Outfit at a Reasonable Price.

(Fig. 599.)



(Fig. 547.)

SPRAY WITH KIL-O-SCALE. SEE PAGE 75.

## THE AUTO-SPRAY.

A Self-Operating or Automatic Sprayer.

Length of cylinder, 21 inches; weight, loaded, 39 pounds; diameter of cylinder, 7 inches; capacity, about 4 gallons; weight, empty, 7 pounds; extension pipes extra.

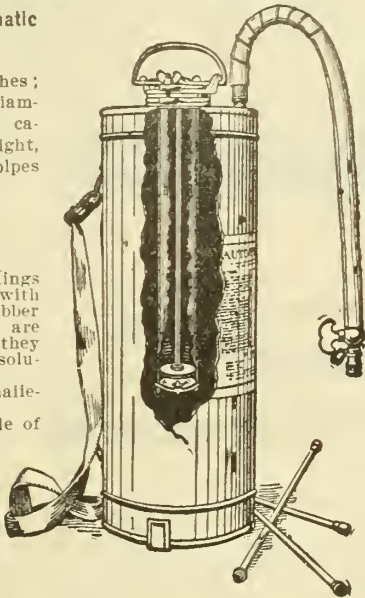
#### SPECIFICATIONS.

##### “Auto-Spray No. 1”

Has nozzle, stop-cock and fittings turned from solid brass, with deep-cut threads, 3-ply rubber hose; the pump and valves are entirely of brass where they come in contact with the solution.

All cast-iron parts are malleable iron.

The carrying strap is made of 8-ply halter web. It is fitted with our improved valve and take-out and put-in sleeves, thus preventing damage or accident to the plunger and packing. In the brass machine there is absolutely nothing that can corrode or rust.



#### WHAT THE AUTO-SPRAY WILL DO.

A few strokes of plunger in air chamber will compress enough air to discharge the entire contents and make a continuous spray for nine minutes. This means that the “Auto-Spray” can be charged in fifteen seconds, when it will work uninterruptedly long enough to spray a quarter-acre of potatoes. The spray can be made to flow fast or slow by merely turning the cock of the nozzle, and it will throw either a cloudlike shower or a solid stream.

#### PRICES.

“Auto-Spray,” No. 1, galvanized tank, without “Auto-Pop”.....	4.50
“Auto-Spray,” No. 1, galvanized tank, with “Auto-Pop”.....	5.50
“Auto-Spray,” No. 1, brass tank, without “Auto-Pop”.....	6.00
“Auto-Spray,” No. 1, brass tank, with “Auto-Pop” (recommended).....	7.00
“Auto-Pop,” supplied separately.....	1.25
Copper strainer.....	1.25
Extension pipe, brass, two-foot length.....	.25
Extension pipe, galvanized.....	.35
Elbow extension, brass.....	.35
Torch.....	1.00
Safety valve, solid brass.....	.25
Bicycle pump fitting.....	.25

Special Prices for Cash.

## THE FOUNTAIN SPRAY PUMP.

FIGURE 599.—The above illustration represents the Fountain Knapsack, Nos. 332 and 333, constructed of first-quality galvanized iron, with round corners, built precisely the same as regular Knapsack, with removable strainer and tight lid. It is fitted with adjustable straps so as to be carried on the back, or it can be carried by bail, as shown by dotted lines.

**CAUTION.**—Always mix Paris Green or London Purple in a separate vessel, forming into a paste before adding the water. In this way everything will be dissolved and will not need to be agitated.

No. 332, Fig. 599.—Fountain Knapsack Spray Pump, with one tube, rubber bulb and rose.  
Retail price..... \$3.00  
List price..... 5.00

No. 333, Fig. 599.—Fountain Knapsack Spray Pump, with two tubes, rubber bulbs and roses, to work with both hands.  
Retail price..... \$4.25  
List price..... 7.00  
Extra tube, rubber bulb and rose..... \$1.25  
Retail price..... 2.00  
List price.....

## “The Auto-Spray Torch.”

It is marvelously effective in burning worms and nests, and is the only torch that has ever been used successfully. The “Auto-Spray Torch” burns kerosene oil vaporized with oxygen of the air, and is so intensely hot that a single blast is sufficient to destroy a nest of worms. \$1.00.

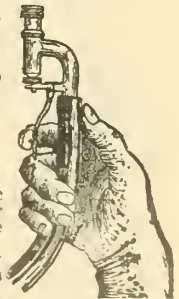


## “The Auto-Pop” and “Anti-Choke” Nozzle.

The “Auto-Pop” is an automatic valve which is closed by the air pressure used to operate the “Auto-Spray.”

In operation a lever is moved by simply closing the hand, thus opening the valve and allowing an instantaneous discharge of spray.

By releasing the lever it closes itself automatically; hence the spray is in perfect control. The value of the “Auto-Pop” is most apparent in spraying potatoes, tobacco, cotton, small fruits, etc., where only enough solution is used to spray each plant or vine. \$1.25.



**SPRAY NOZZLES AND POWDER GUNS.**

**GOULD'S "MISTRY" NOZZLE**

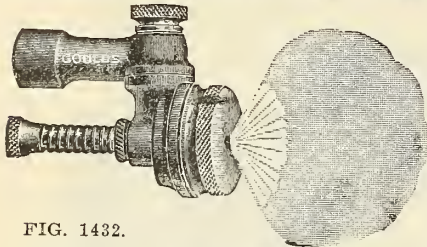


FIG. 1432.

Fig. 1432 is our large "Mistry" Nozzle, which produces a greater area of spray than two Fig. 55. It has an adjustment which allows the spray to be thrown at any desired angle. In this Nozzle you have the effect of two good Nozzles with only one to attend to—a very good feature. Price \$1.50.

**SENECA NOZZLE.**

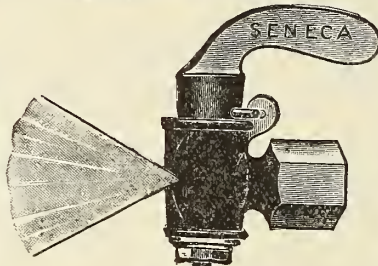


FIG. 81.

"Seneca" Nozzles give fan-shaped spray; also serve as shut-off. Similar to Bordeaux.  
List Price..... 1.00  
Retail Price..... .75

**VERMOREL NOZZLE.**

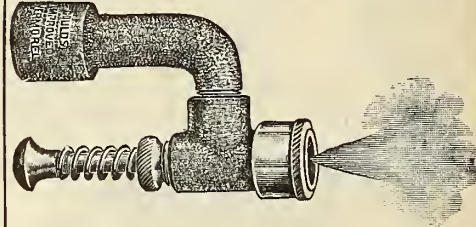


FIG. 55.

Each With Degorger.  
One Discharge—List price, \$1.00; Retail price, 75c.  
Two Discharge—List price, \$2.00; Retail price, \$1.50.  
Three Discharge—List price, \$2.75; Retail price, \$2.00.



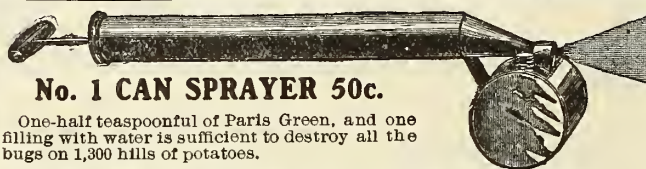
LEGGETT'S  
**CHAMPION DRY POWDER GUN.**  
GREENS TWO ROWS OF POTATOES WITHOUT WATER OR PLASTER

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.  
Weights, cased for shipping, 14 pounds.  
Price.....\$7.50

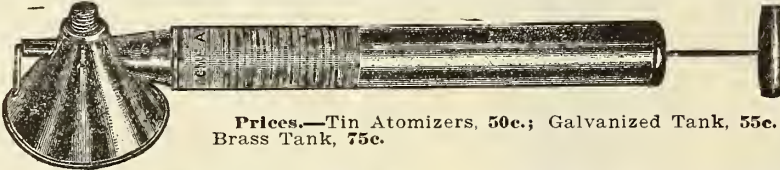


**No. 1 CAN SPRAYER 50c.**

One-half teaspoonful of Paris Green, and one filling with water is sufficient to destroy all the bugs on 1,300 hills of potatoes.

**ACME LIQUID ATOMIZER.**

For spraying Paris Green and other insecticides on potato plants, shrubs, small trees, house plants, live-stock and poultry. Applies the finest spray on desired objects and exterminates any kind of insect life. Quite a number are now in use for this purpose with the most satisfactory results.



Prices.—Tin Atomizers, 50c.; Galvanized Tank, 55c.; Brass Tank, 75c.

**BORDEAUX NOZZLE.**

White-washing and painting, as well as for other spraying.

List price....\$1.00  
Retail price...75c

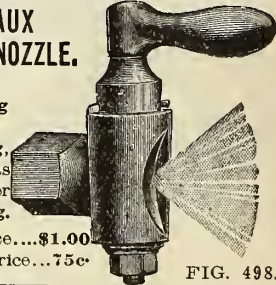
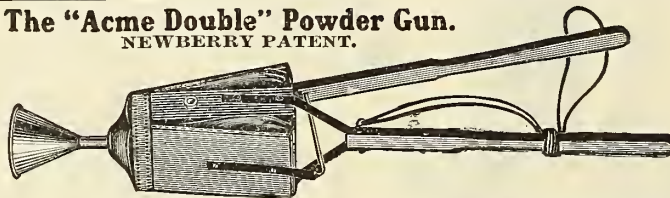


FIG. 498.

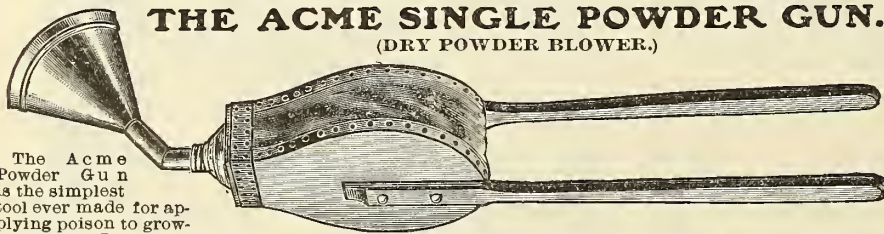
**Perfection Double Atomizer.**  
More solution can be thrown with this than with a single Atomizer; covers more space.  
Price: Tin Double Sprayers 55c. Galvanized Double 60c. Brass Tank Double 75c.

**The "Acme Double" Powder Gun.**  
NEWBERRY PATENT.



It is but little heavier than our "Acme," and will apply a continuous blast of dry poison to any plant. You can apply any desired quantity to each plant as its needs require. All parts of the "Acme Double" Powder Gun are thoroughly protected. There are no adjustments to make, no loose parts to get out of order. Is furnished with detachable elbow and spreader.  
Price..... \$1.50

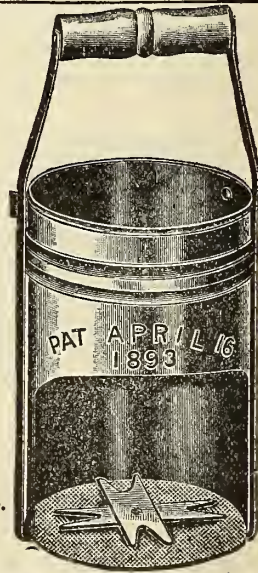
**THE ACME SINGLE POWDER GUN.**  
(DRY POWDER BLOWER.)



The Acme Powder Gun is the simplest tool ever made for applying poison to growing crops. It is entirely independent of water or plaster. No poison is left about the fields to kill stock. It requires no base of supplies; all you need carry is a can of dry insecticide and the gun. Without stooping—the elbow does it—it applies any powdered poison on any plant in any desired quantity any time of the day. The elbow may be detached if desired. This tool is well made of the best materials, and is thoroughly guaranteed. The bellows sides are painted a bright vermilion, and the handles finished bright. The leather is a fine russet. We also furnish a spreader for distributing the blast. Price..... 75c.

**The Acme Plaster Sifter.**

Price... 25c.



This is a most convenient, serviceable little tool, and at the price will prove a good investment. It handles land plaster and any similar substance without the necessity of covering the hands or the clothing with the poisoned powder. We furnish a false bottom, which prevents anything clogging the agitator.

## SPRAY PUMP INSECTICIDES.

# KIL-O-SCALE

A SCIENTIFIC CHEMICAL COMPOUND FOR EXTERMINATING THE SAN JOSE SCALE.



Many remedies have been proposed by the various agricultural departments throughout the United States and Canada, some of which, while easy to apply, are too expensive to be practical, and others, while inexpensive, necessitate the purchase of raw materials, mixing and cooking them, and generally are so much trouble for the orchard man to prepare that frequently no attempt at spraying is made, until finally the orchard is so completely infested that the trees cease to bear and then die.

The great demand for an effective remedy, easy to apply and economical to use, led the Thomsen Chemical Co. into a thorough scientific study of the subject covering a period of many months, during which exhaustive experiments have been conducted under the advice and direction of some of the best entomologists in the East, resulting in demonstrating that the compound herein after described and now offered to the public possesses merit of a high degree.

### DESCRIPTIVE.

# KIL-O-SCALE

Is a chemical product containing over 50 per cent. of heavy kerosene oil. (Rendered water soluble by a special chemical process owned exclusively by the Thomsen Chemical Co. of Baltimore.)  
 15 per cent. of SULPHURATED OIL.  
 10 per cent. of RESIN.

Thus it will be seen **KIL-O-SCALE** combines the three things that have

been generally recommended by the leading entomologists of the United States and Canada as effective in killing the Scale—KEROSENE OIL. SULPHUR. RESIN.

KIL-O-SCALE is a Perfect Remedy against San Jose Scale. KIL-O-SCALE dissolves the wax which cements the scale or protecting cover of the insect to the tree.

KIL-O-SCALE contracts the scale or coating covering the insect, thus exposing the insect itself to the direct action of the insecticide.

KIL-O-SCALE forms after spraying a coating which prevents any young scale from settling before they die from exposure.

KIL-O-SCALE fills the respirative and digestive organs of the insect, thus destroying life.

KIL-O-SCALE after applying to the tree generates in drying a poisonous gas, ABSOLUTELY DESTRUCTIVE of insect life.

KIL-O-SCALE is made and shipped only in concentrated form, and will mix with water in any proportion, and either hot or cold.

KIL-O-SCALE is economical. KIL-O-SCALE is easy to apply.

KIL-O-SCALE is not a mixture of chemicals, but a CHEMICAL PRODUCT resulting from a definite CHEMICAL PROCESS.

KIL-O-SCALE is not a "QUACK REMEDY" designed to cure all the "ills that flesh is heir to," but is prepared for the specific purpose of killing the SAN JOSE SCALE.

KIL-O-SCALE will not clog the spray pump or nozzle. KIL-O-SCALE may be used in the late fall, and during the winter and early spring, up until the buds swell. Will not injure the trees.

KIL-O-SCALE is a dormant spray, and should not be used in hot weather, as there is danger of defoliating the tree.

### DIRECTIONS.

KIL-O-SCALE is a concentrated LIQUID, and is shipped in barrels, kegs and cans.

To 1 gallon of KIL-O-SCALE add 20 to 25 gallons of cold water and stir. It is then ready to be applied to the trees.

If a second application is desired, dilute 1 gallon of KIL-O-SCALE with 40 gallons of water.

Per gallon.....\$1.50

Per 5 and 10 gallons, per gallon..... 1.25

½ barrels, at..... 1.10

### Special Prices in Barrel Lots.

September 13, 1904.

GRIFFITH & TURNER CO.:

Gentlemen—I tried the KIL-O-SCALE on peach trees that were infested with San Jose Scale. I used 20 parts of water to one of KIL-O-SCALE, which killed every one in four hours. I also used 25 parts of water to one, and found the next day a few of the Scale alive. Today I looked at the trees again, about 15 days after the application, and did not find one Scale on either the 20 or 25 parts of water. I think 22 parts to one of KIL-O-SCALE will be a Scale killer.

I will order several barrels this winter, for it is a sure Scale killer.

Yours, etc.,  
 A. A. STINCHCOMB.

St. Margaret's,  
 A. A. Co., Md.

This gentleman owns 5000 peach trees, and has control of 80,000 which he looks after.

# Webcide Solutions.

Contain Absolutely no Poisons or Acids of Any Kind Whatsoever.

Made in Two Kinds.

SOLUTION No. 1.

For use by orchardists, nurserymen, farmers and truckers, and

SOLUTION No. 2.

Only for florists and flower growers.

Explicit directions accompany each package, which must be followed to the letter to reap the best results.

Apply with any of our spray pumps or atomizers.

LIST OF PRICES.

For Trees and Vegetables.

No. 1 Solution—1 can, 2 gallon.....	\$2.50
No. 1 Solution—1 can, 1 gallon.....	1.50
No. 1 Solution—1 can ½ gallon.....	.75
No. 1 Solution—1 can, 1 quart.....	.40

For Plants and Flowers.

No. 2 Solution—1 can, 1 gallon.....	\$2.25
No. 2 Solution—1 can, ½ gallon.....	1.25
No. 2 Solution—1 can, 1 quart.....	.75
No. 2 Solution—1 can, 1 pint.....	.50

FLOUR OF SULPHUR.

Barrels of 250 pounds.....	3c. lb.
Per 100 pounds.....	4c. lb.
Per 25 pounds.....	5c. lb.
Per 5 pounds.....	8c. lb.

Prices subject to change without notice.

### ARSENATE OF LEAD—NO MORE PARIS GREEN.

Recommended by the United States Agricultural Department and the State Experiment Stations as an insecticide of great value, and equally as destructive as Paris Green. The advantages over Paris Green are its cheapness; no burning or caustic effects; easier to dissolve; more adhesive, and lasts longer. The expense of land plaster or gypsum is done away with. Apply 2 to 5 pounds to 100 gallons of cold water and spray. Put up in packages of 1, 5 and 10 pounds.

Write for prices.

### COPPER SULPHATE OR BLUESTONE.

Prices on this article are constantly varying. Write for prices.

### CAUSTIC SODA.

50-pound cans, per pound.....	8c.
25-pound cans, per pound.....	9c.
5 and 10-pound cans, per pound.....	10c.

FOR SAN JOSE SCALE USE KIL-O-SCALE ONLY.

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

INSECT DESTROYERS, Etc.



G. & T. ANTISEPTIC LICE AND FLEA POWDER is harmless to human or animal life. It is, however,

**SURE DEATH TO LICE AND VERMIN**

of all kinds. It is particularly adapted for use on poultry, where its antiseptic properties allay all irritation or inflammation of the skin caused by lice or mites, thus keeping the stock in full health and vigor.

Hens subjected to the incessant irritation of lice or vermin necessarily lose vitality, and thus become weak and fall an easy prey to disease, preventing laying and also incapacitating them for sitting.

This powder is also a general disinfectant, and will purify the premises, destroying germs and all putrefying gases. 1-pound cartons, 20c. 5-pound cartons, 75c.

**LEE'S LICE KILLER**

is the result of long experiment with various insecticides, and possesses the unique advantage of not requiring contact with the vermin to kill. Being a liquid paint, it has manifold advantages. It 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: Qt., 35c. ½ gal., 60c. Gal., \$1.00. 5 gal., \$4.00.

Lee's Germozone (Liquid), 50c.



**DEATH TO LICE.**

A DISINFECTANT INSECT POWDER.

This powder is unrivaled as an insecticide; handy to use, cheap to buy and does the work quick.

15 oz. package.	\$0.25	Postpaid.....	\$0.40
48 oz. package.	.50	Postpaid.....	1.00
100 oz. package.	1.00	By Express.....	

**VERMINOID**

Cholera

Preventive

G&T

Water

Soluble

LICE EXTERMINATOR

VERMINOID, the Great Antiseptic, Disinfectant, Lice Killer and Cholera Preventive, is specially adapted for use in poultry-houses, sinks, cellars, drains, cesspools, stables, water-closets, etc. For general use as a disinfectant or for killing vermin in chicken-houses there is nothing on the market that can excel it.

Verminoid, mixed with water or whitewash (see directions on package) and sprayed on the inside of the houses, the roost and nests, will keep the premises clean and pure and will absolutely destroy all vermin.

**CAUTION.**—The application should be made in the morning after the fowls leave their roosts. Directions on each package.

For a contact louse remedy use our Antiseptic Powder described above.

Put up in tins. Price: Qt., 60c. ½ gal., \$1.00. 1 gal., \$1.50.

**BORDEAUX MIXTURE (LIQUID).**

A valuable and indispensable fungicide for grape-growers, thereby insuring larger crops and finer grapes, and preventing failure. A sure cure and preventative for black rot, mildew and rust. Also of great value for other plants with kindred diseases. Per quart, 40c. Per gallon can, \$1.10. By express or freight only. Mix one part of this to 50 parts of water.

**BORDEAUX MIXTURE (POWDER).**

Ready for use by simply adding water. Price: Per pound box, 15c.; makes five gallons of spray. 5-pound box, 60c.; makes 25 gallons of spray.

**KEROSENE EMULSION (LIQUID).**

Ready for use by simply adding water, 25 to 50 parts to one. Quart, 40c. Gallon, \$1.10. 5 gallons, \$4.50. This is strictly an insecticide for plant lice of all kinds, rose bugs, cabbage bugs, melon insects, fowl, human and animal lice, caterpillars, tobacco flies, peach lice, red spiders, green fly and all sucking insects.

**KEROSENE EMULSION (A PASTE).**

Add water, 25 to 50 parts. Pound, 15c. 5 pounds, 60c.

**LEMON OIL.**

Perfectly safe and harmless to the tenderest foliage and roots. It effectually destroys mealy bugs by syringing or dipping. It also destroys scale, thrip, red spider, black and green fly, caterpillar, American blight, mildew, etc. Dilute with 50 parts water. ½ pint, 25c. Pint, 40c. Quart, 75c. ½ gallon, \$1.25. Gallon, \$2.00.

**WHALE OIL SOAP.**

Makes an excellent wash for trees and plants where insects and eggs affect the bark, and for smearing on the trunks of trees to prevent worms crawling up. Price: Cake, 10c. Pound, 15c. 5 pounds, 60c. 9 pounds, \$1.00. Large quantities at special prices.

For insects in plants, dissolve one-quarter pound to a gallon of water; apply with syringe or spraying pump. For bark insects, etc., dilute with water to consistency of thick paint and apply with brush.

**TIC-KIL.**

A cold-water Sheep Dip. Antiseptic; Disinfectant; Non-Corrosive; Detergent.

Tic-Kil is a highly-concentrated solution, perfectly soluble in water, which makes it very cheap and convenient. A great remedy for many skin diseases and parasitic troubles. Very purifying, and acts as a deodorizer also. Directions for use on every package.

PRICE: Quart, 60c.  
½ Gallon, \$1.00.  
Gallon, \$1.50.  
5 Gallons, \$6.00.  
10 Gallons, \$10.50.  
Special prices in brls.

Tic-Kil

G&T

SHEEP DIP

**FOR DOGS, HOGS AND SHEEP.**

After a number of exhaustive experiments we confidently place the G. & T. Mange Cure on the market. If followed strictly in accordance with the directions, it will positively cure the worst case of mange in a few days.

After the first application the animal will cease rubbing or scratching, and even though the hair or wool has dropped out, it will so tone and re-invigorate the skin that in an incredibly short time it will start growing again.

It is healing, purifying, antiseptic and disinfectant. Perfectly soluble in water.

Put up in tins. Price: Qt., 60c. ½ gal., \$1.00. Gal., \$1.50.

KAN-I-NOID

G&T

Mange - Cura

**CAMPBELL'S VARNISH STAIN.**

The original and genuine. Only real Varnish Stain ever made.

It is different from any other so-called Varnish Stain on the market. It is made of high-grade Water-proof Varnish made especially for the purpose, and treated in such a manner as to produce with one application beautiful imitations of natural woods finished in varnish. Campbell's Varnish Stain is transparent, thereby preserving the grain and beauty of the natural wood, and at the same time giving a colored effect. It dries hard with a durable gloss, and the colors remain permanent. Campbell's Varnish Stain does not settle in the can. It does not contain any pigment whatever. The colored effects are the results of a peculiar process, perfected after years of labor and costly experiments. Costs only a little more than other Varnish Stains and goes twice as far.

Cherry, Walnut, Mahogany,  
Light Oak, Dark Oak, Rosewood.

**PRICE-LIST.**

(Packed in Patent Push-Top Cans Bearing Full Directions.)  
Size No. 1, ¼ pt.....\$0.15      Size No. 3, 1 pt.....\$0.50  
Size No. 2, ½ pt......25      Size No. 4, 1 qt......35



# INSECT DESTROYERS, ETC.

## KNO-BUG.

**K**NO-BUG is put up in the form of a dry powder, and is best applied with a gun or sifter, but can be used in water if desired. Kno-Bug sifters especially made for sifting Kno-Bug, but can be used for Paris Green or other powdered insecticides if desired. Price, 50c. It is better than Paris Green, because safer and easier to handle, and does not injure the plant. It is a plant food, and acts as a tonic and stimulates the growth of the vines. It will not stunt the growth of the plant. It will prevent blight, seab and rot.



**Our Special Prices.**  
 Pound packages.....\$0.10  
 3-pound packages......25  
 8-pound packages......50  
 20-pound boxes..... 1.00

### 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 cans, \$7.00.

VAPORIZING PANS (for above)..... 50c.  
 IRONS..... 50c.  
 3 PANS, 3 IRONS and 1 HOOK.....\$3.00

### FLOWERS OF SULPHUR.

For the prevention and destruction of mildew on roses and other plants. Apply with bellows or gun. Pound, 10c. 5 pounds, 40c. 10 pounds, 60c.  
 N. B.—If by mail, add 15c. per pound for postage.  
 For Flour of Sulphur see page 76.

### HAMMOND SLUG SHOT.



A non-poisonous powder, and a very popular insecticide; it requires no further mixing or preparation; easily applied, and not injurious or dangerous to animals, the person applying it, or fruits and vegetables treated. Very effectual in destroying potato bugs and beetles, green and black fly, slugs, worms, caterpillars, etc. Ten to forty pounds is sufficient for an acre. 5-pound packages, 25c. 10-pound packages, 45c. 25 pounds, \$1.00.

### 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 nicotine that kill aphis and thrip very effectively. Per box, 60c. Per 12 boxes, \$6.50.

### FAIRMOUNT WEED KILLER.

Excellent for cleaning gravel paths, drives and gutters of weeds, moss, etc. A great labor-saver. 1/2 gallon, 75c., makes 25 gallons treating liquid. Gallon, \$1.25. 5 gallons, \$6.00.

**SO-BOS-SO** (Kilfly) is a liquid mixture designed to protect cows and horses from torture of flies. The preparation is positively harmless. Put up in one-gallon cans. Price 75c. per gallon.

### ELECTRIC SPRAYER. Price 50c.

**COW-EASE.**—A preparation to prevent the dreaded fly pest on horses and cattle. It contains nothing injurious, and is absolutely harmless. Cow-Ease will kill all lice and vermin.  
 Retail Price per quart, 35c. List, \$4.25. Retail per gallon, 75c. List, \$1.00 per gallon.

## BUG DEATH.

### DIRECTIONS FOR USING IN WATER.

Add 1 1/2 pounds to 80 gallons water, and mix thoroughly.

1-pound package.....\$0.15  
 3-pound package......35  
 5-pound package......50  
 12 1/2-pound package..... 1.00  
 100 pounds..... 7.00

Add 17c. per lb. for postage.

### PERFECTION SHAKER.

65 cents.

For applying Bug Death to potato vines.



### PERSIAN INSECT POWDER, or BUAHACH.

Price: 1/4 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.

### PARIS GREEN.

1/4 pound, 10c. Pound, 25c. By mail, 40c.

### LONDON PURPLE.

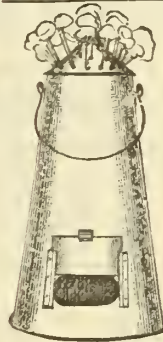
Very poisonous, and equally as efficacious as Paris Green, and more soluble. Use in the same way as Paris Green. Pound, 25c. By mail, 40c.

### PURE WHITE HELLEBORE.

The cheapest and best preparation for destroying rose slugs, currant worms, etc. 1/4 pound, 10c. Pound, 30c. By mail, 45c. per pound.

### FUMIGATORS.

No. 2—Height, 16 inches. For a house 12x40 feet.....Price, \$1.75  
 No. 3—Height, 20 inches. For a house 15x100 feet.....Price, 2.25



### NICOTICIDE.

An infallible remedy for aphid, green fly and other greenhouse vermin.  
 No. 1—1 pint for 32,000 cubic feet of space, \$2.50  
 No. 2—1/2 pint for 16,000 cubic feet of space, 1.25  
 No. 3—4 ounces for 8000 cubic feet 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.

### ASBESTOS TORCH.

An excellent device for burning caterpillar nests from trees. Price 40c.

### TOBACCO STEMS.

Indispensable for fumigating greenhouses and conservatories for the destruction of green and black aphis and other insects. 5c. a pound. Large quantities, 50 pounds, 3c. a pound.  
 Dampen thoroughly a few hours before using, place about a half-pound over a handful of shavings in a fumigator, and light.

### PINNER'S TOBACCO SOAP.—Pound, 40c. By mail, 55c.

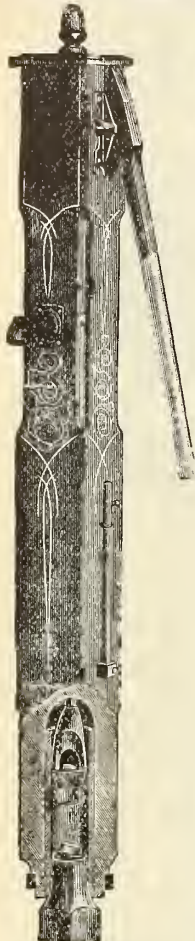
### TOBACCO DUST, FINE.

For green and black aphis, fleas, beetles, etc. Splendid fertilizer and preventive for insects in the ground and around roots.  
 Price: 5 pounds, 20c. 20 pounds, 50c. 100 pounds, \$1.50. 200 pounds, \$2.75. 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.

### TOUGH ON FLIES.

One application instantly and positively relieves horses and cattle from all annoyance from green heads, the dreaded Texas heel fly, as well as other flies, gnats and insects of every description for at least 24 hours. It improves the animal and abolishes the use of fly nets. Price: Quart, 50c. 1/2 gallon, 90c. Gallon, \$1.50.





## BALTIMORE PUMP

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.
6	\$7.60	\$5.32	\$9.10	\$6.37	\$10.85	\$7.60
8	7.98	5.59	9.48	6.64	11.23	7.86
10	8.36	5.85	9.86	6.90	11.61	8.13
12	8.74	6.12	10.24	7.17	11.99	8.39
14	9.40	6.58	10.80	7.56	12.65	8.86
16	9.82	6.87	11.32	7.92	13.07	9.15
18	10.24	7.17	11.74	8.22	13.49	9.44
20	10.66	7.46	12.16	8.51	13.91	9.74
22	11.08	7.76	12.58	8.81	14.33	10.03
24			13.58	9.51	15.83	11.08
26			14.58	10.11	17.33	12.13
28			15.58	10.91	18.08	12.66
30			16.40	11.48	19.15	13.41
32			17.40	12.18	20.40	14.28
34			18.65	12.06	21.40	14.98
36			19.65	13.76	22.40	15.68
38			20.90	14.63	23.65	16.56
40			22.15	15.51	24.90	17.43
45			25.40	17.78	28.15	19.71
50			27.90	19.53	30.40	21.28

SPECIAL DISCOUNT FOR CASH.

## Price List Baltimore Wood Pumps

AS REVISED BY

National Association of Wood Pump Manufacturers.

THIS PRICE LIST SUPERSEDES ALL HITHERTO USED.

**"No. 0."—STOCK PUMPS. 7x7 inches, 4-Inch Bore.**

	Unlined.	Porc. lined.
6 feet long.....	\$7.00	\$8.75
7 feet long.....	7.75	9.50
8 feet long.....	8.50	10.25
10 feet long.....	10.00	11.75
12 feet long.....	11.50	13.25

6 feet long, reamed for 6x6 extension pipe, unlined, \$7.25.

Less 30 per cent. Retail.

**"No. 1."—THE FAVORITE HOUSE PUMPS.**

6x6 inches, 3½-Inch Bore.

	Unlined.	Porc. lined.
6 feet long.....	\$5.50	\$7.00
7 feet long.....	6.00	7.50
8 feet long.....	6.50	8.00
10 feet long.....	7.50	9.00
12 feet long.....	8.50	10.00

6 feet long, reamed for 6x6 extension pipe, unlined, \$5.75.

Less 30 per cent. Retail.

### PUMPS FOR DRIVE WELLS.

To Fit 1¼, 1½ or 2 Inch Iron Pipe.

No. 1—House, 6 feet long, porcelain-lined iron cylinder.....	\$8.00
Special porcelain-lined cylinder, 5 feet wood extended entire length, 6 feet.....	7.50

Less 30 per cent. Retail.

### BRASS JACKET DRIVE WELL POINTS.

Numbers.	Diameter of Pipe.	Length Jacket.	Length Pipe.	Number Holes.	No. 60 Gauge.	
					List Price Per Dozen.	Retail Price Each.
90	1¼	18 in.	24 in.	100	\$36.00	\$0.75
94	1¼	24 in.	30 in.	130	40.00	.96
98	1¼	30 in.	36 in.	165	56.00	1.16
102	1¼	42 in.	48 in.	270	76.00	1.60
136	1½	18 in.	24 in.	120	48.00	1.00
140	1½	24 in.	30 in.	162	60.00	1.25
144	1½	30 in.	36 in.	198	72.00	1.50
148	1½	42 in.	48 in.	276	96.00	2.00

Malleable Drive Caps, Hexagon-shaped, for 1¼ Pipe, 20c.  
Malleable Drive Caps, Hexagon-shaped, for 1½ Pipe, 25c.  
Plain Drive Caps, prices on application.

Write for special cash price on Drive Well Points.

## WOOD CHAIN PUMPS.



This Wood Curb Chain Pump is first-class in every respect; nicely finished; nicely painted and striped.

PRICES.

Chain Pump Curbs.	
Each.....	\$2.00
Chain Pump Tubing.	
Per foot.....	5c.
Chain (running 4 to 4½ feet to pound).	
Per pound.....	7c.

## Miscellaneous.

6x6 Couplings for 4x4 Tubing.....	\$0.50
Buckets, 5-inch, each, No. 00.....	1.25
Buckets, 4-inch, each, No. 0.....	1.00
Buckets, 3½-inch, No. 1, each.....	.86
Buckets, 3-inch, No. 2, each.....	.65
Handle, any size, each.....	.30
Handle Links or Knuckles.....	.25
Check Valves, per dozen.....	1.50
Iron Connection for drive wells, fitted for 1¼-inch and 1½-inch iron pipe.....	1.00
Extra Iron Spout, with loose collar....	.40
Extra Wood Spouts, each.....	.15
Extra Spout Braces, each.....	.15
Extra Bands, each.....	.10
Extra Ears or Brackets, Nos. 35 and 36, each.....	.40
Extra Splice Straps, per pair.....	.25
Extra Frost Faucets, each.....	.40
Plunger Rod, per foot.....	.03
Plunger Leathers, per dozen.....	3.50

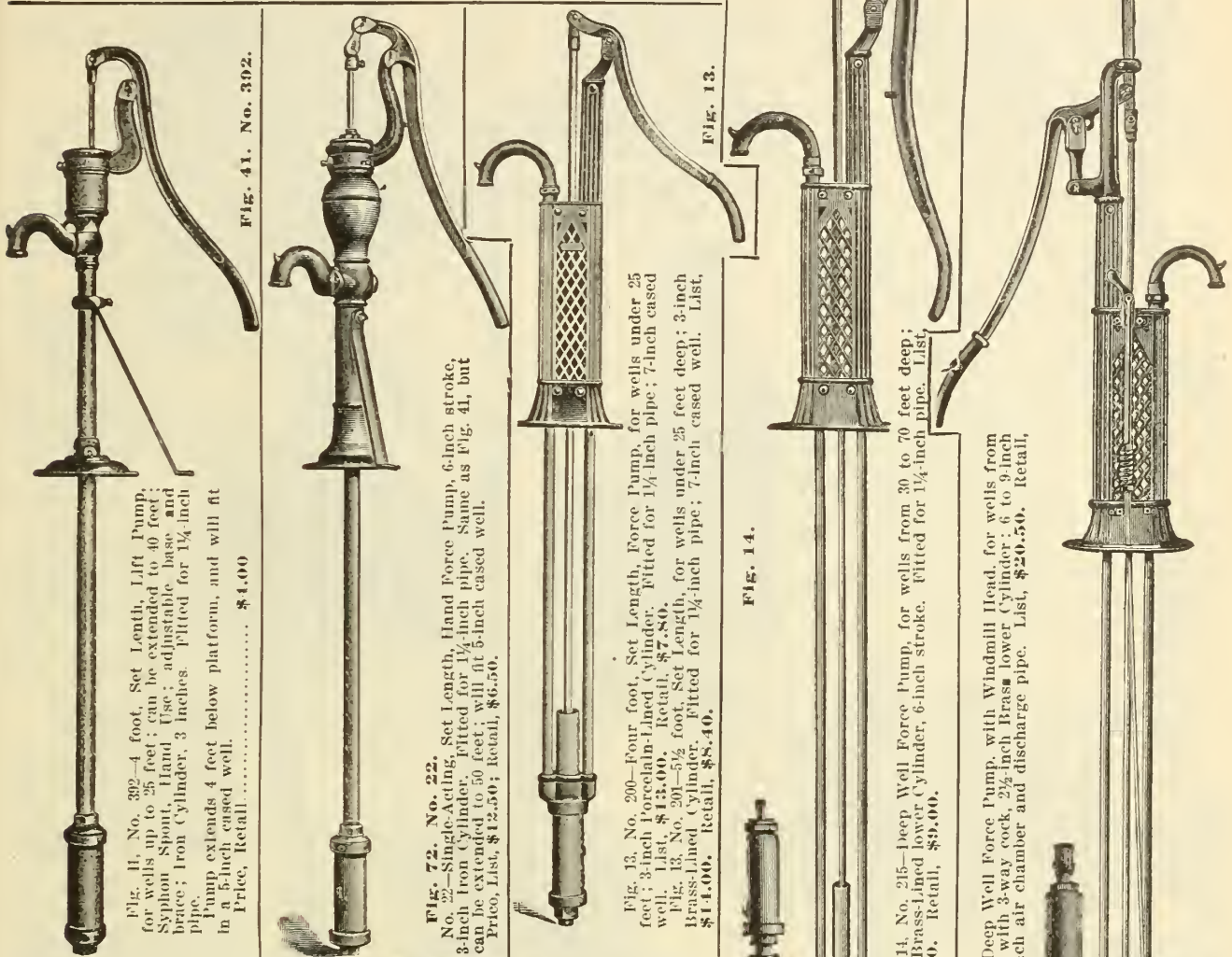
## Tubing.

4x4 12 feet long and under, per foot....	\$0.19
4x4 over 12 feet long, per foot.....	.21
6x6 extension tubing, per foot.....	.50
Cylinder Block, Porc.-Lined, 3 ft. long..	3.00
Cylinder Block, Porc.-Lined, 4 ft. long..	3.50
Cylinder Block, Porc.-Lined, 5 ft. long..	4.00
Cylinder Block, Porc.-Lined, 6 ft. long..	4.50
Cylinder Block, Porc.-Lined, 7 ft. long..	5.00
Cylinder Block, Porc.-Lined, 8 ft. long..	5.50

Less 30 per cent. Retail.



## Buckeye Force and Lift Iron Pumps.



**Fig. 41, No. 392.**  
 Fig. 41, No. 392—4 foot, Set Length, Lift Pump, for wells up to 25 feet; can be extended to 40 feet; Syphon Spout, Hand Use; adjustable base and brace; Iron Cylinder, 3 inches. Fitted for 1 1/4-inch pipe. Pump extends 4 feet below platform, and will fit in a 5-inch cased well. Price, Retail, \$4.00.

**Fig. 72, No. 22.**  
 No. 22—Single-Acting, Set Length, 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 to 50 feet; will fit 5-inch cased well. Price, List, \$12.50; Retail, \$6.50.

**Fig. 13.**  
 Fig. 13, No. 200—Four foot, Set Length, Force Pump, for wells under 25 feet; 3-inch Porcelain-Lined Cylinder. Fitted for 1 1/4-inch pipe; 7-inch cased well. List, \$13.00, Retail, \$7.80.  
 Fig. 13, No. 201—5 1/2 foot, Set Length, for wells under 25 feet deep; 3-inch Brass-Lined Cylinder. Fitted for 1 1/4-inch pipe; 7-inch cased well. List, \$14.00, Retail, \$8.40.

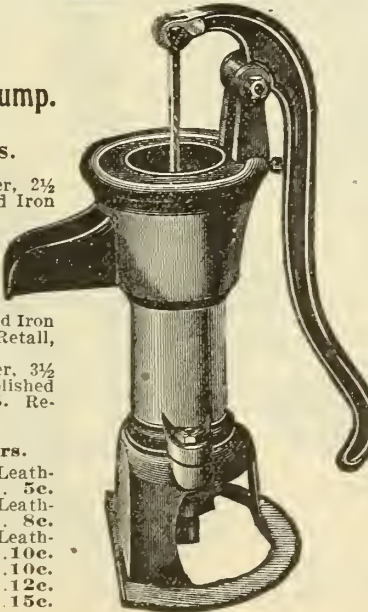
**Fig. 14.**  
 Fig. 14, No. 215—Deep Well Force Pump, for wells from 30 to 70 feet deep; 3-inch Brass-Lined lower Cylinder, 6-inch stroke. Fitted for 1 1/4-inch pipe. List, \$15.00, Retail, \$9.00.

**Fig. 56, No. 836.**  
 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, \$12.30.

### Improved Close-Top Pitcher-Spout Pump.

#### SIZES AND PRICES.

- No. 1—Diameter of Cylinder, 2 1/2 in.; Suction 1 in.; Polished Iron Cylinder. List, \$4.25. Retail, \$1.15.
- No. 2—Diameter of Cylinder, 3 in.; Suction 1 1/4 in.; Polished Iron Cylinder. List, \$4.75. Retail, \$1.25.
- No. 3—Diameter of Cylinder, 3 1/2 in.; Suction, 1 1/4 in.; Polished Iron Cylinder. List, \$5.25. Retail, \$1.35.



#### Pitcher Pump leathers.

- No. 1—Valve and Plunger Leathers, each, 5c.
- No. 2—Valve and Plunger Leathers, each, 8c.
- No. 3—Valve and Plunger Leathers, each, 10c.
- No. 1—2 1/4 in. Leather Cups, 10c.
- No. 2—3 in. Leather Cups, 12c.
- No. 3—3 1/2 in. Leather Cups, 15c.

**Fig. 14, No. 518—Deep Well Force Pump, for wells from 30 to 60 ft. deep; 9-in. stroke, 2 1/2-in. Brass lower Cylinder. List, \$17. Retail, \$10.80.**

**Fig. 14, No. 515—Similar to the above, except it has 3-in. Brass-Lined lower Cylinder. For wells up to 50 feet. List, \$16.00. Retail, \$9.60.**

#### IRON PUMP CYLINDERS.

Size.	—All Iron.—		—Brass Lined.—		—Brass Body.—	
	List.	Retail.	List.	Retail.	List.	Retail.
2 1/2 x 10.....	\$4.35	\$1.37	\$8.00	\$2.85	\$8.00	\$2.85
3 x 10.....	5.00	1.56	9.00	3.21	9.00	3.21
3 1/2 x 10.....	7.00	2.19	10.50	3.75	10.50	3.75
2 1/2 x 12.....	6.00	1.88	8.50	3.04	8.50	3.04
3 x 12.....	7.00	2.19	9.50	3.39	9.50	3.39
3 1/2 x 12.....	9.00	2.82	11.25	4.00	11.25	4.00
2 1/2 x 13.....	...	...	8.50	3.04	8.50	3.04
3 x 13.....	...	...	9.50	3.39	9.50	3.39
3 1/2 x 13.....	...	...	11.25	4.00	11.25	4.00
2 1/2 x 14.....	6.50	2.04	9.25	3.32	9.25	3.32
3 x 14.....	7.50	2.35	10.25	3.66	10.25	3.66
3 1/2 x 14.....	10.00	3.13	12.25	4.38	12.25	4.38
2 1/2 x 16.....	7.00	2.19	10.25	3.66	10.25	3.66
3 x 16.....	8.00	2.50	11.25	4.00	11.25	4.00

## Anti-Freezing Force and Lift Pumps.

Figure 1308.

FOR WELLS FROM 10 TO 150 FEET.

Brass cylinder; deep or shallow wells; light top; large air chamber. Adjustable brace and base. Discharge fitted for 3/4-inch hose. Will go inside 3-inch casing.

Cylinder, 2 1/2 inches. Stroke, 10 inches. Suction, 1 1/4-inch pipe.

Price, Brass Body Cylinder.

List.....\$17.00  
Retail.....10.00

Figure 1309.—Same Pump with cock spout.

List Price.....\$19.50  
Retail price.....11.50

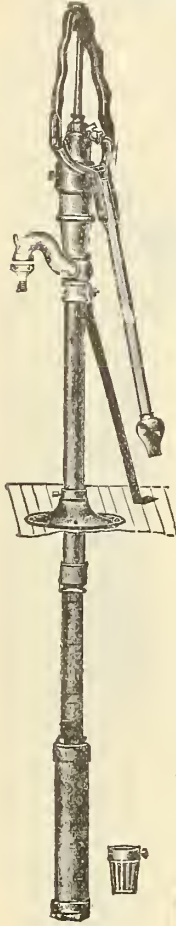


Fig. 1308.

## The IXL and Gem Galvanized Steel Curbs.

It will not rust, being made out of No. 24. Gauge Galvanized Steel.

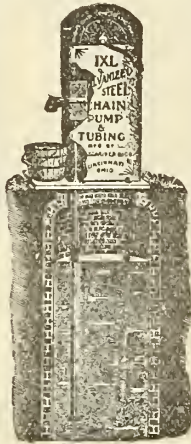
It will not rot or accumulate filth, and leaves the water clear and pure.

It is anti-freezing, as the reservoir piece has a small hole in same, which allows the water to run out.

It can be used in wells as deep as 40 feet.

PRICES.

Galvanized Curb.....\$3.00  
Tubing, per foot......07  
Coupling......16  
Rubber Buckets......08  
Iron Platform......4.00  
Chain, per lb......07



## Faultless Force Tank Pump.

LOW DOWN. DOUBLE ACTING.

Figure 805. No. 269.

Capacity 2000 gallons per hour. Fitted for hose and 2-inch pipe. Handle can be changed to opposite end. The cylinder being horizontal, great strength is gained.

Cylinder, 5 inches diameter; 5-inch stroke; 2-inch opening for suction and discharge.

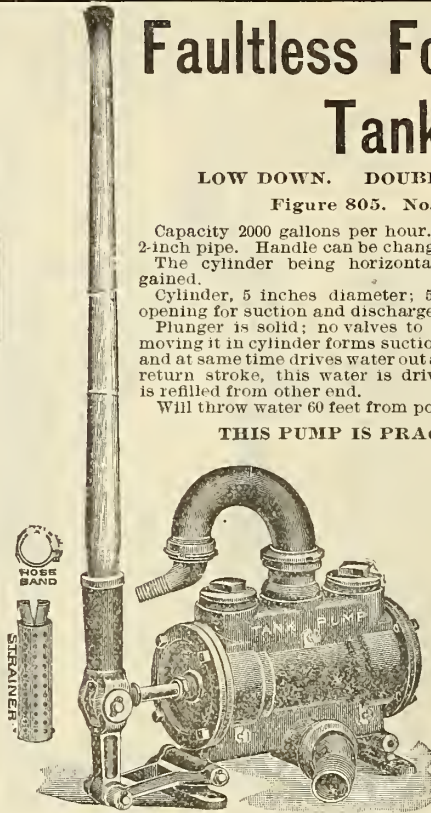
Plunger is solid; no valves to get out of order, and moving it in cylinder forms suction, which fills cylinder and at same time drives water out at other end. Then, on return stroke, this water is driven out and cylinder is refilled from other end.

Will throw water 60 feet from point of nozzle.

THIS PUMP IS PRACTICABLE.

For filling thresher tanks, washing out boilers; for use in shallow stock wells, draining cellars and barn yards, and washing wagons, spraying fruit trees, putting out fires, and general use on a farm. It is fitted with drip cocks to drain cylinder.

Pump, with hose nipple, hose attachment, hose band and strainer, \$7.00  
1-inch discharge hose, Balto., 20c. ft.  
2-inch suction hose, plain bore, galvanized, flat, spiral wire, per ft. . . .40c.



## THE GEM CURB.

Similar to the above, but a little lighter in construction. Anti-freezing. There are neither rivets nor solder on it, making it very strong.

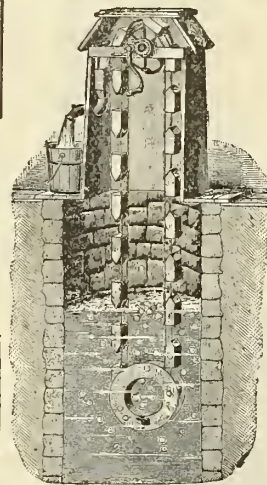
Price.....\$2.50

## Water Elevator and Purifier.

Purifies water by means of oxygen forced into water. Strength, durability and workmanship cannot be surpassed. Pumps are carefully inspected before leaving factory.

PRICE.

Elevator, with 25-foot chain and japanned bottom, wheel for 10-foot cistern.....\$6.50  
Same, with 30-foot chain for 12-foot cistern.....7.25  
Extra chain, 15c. per foot.

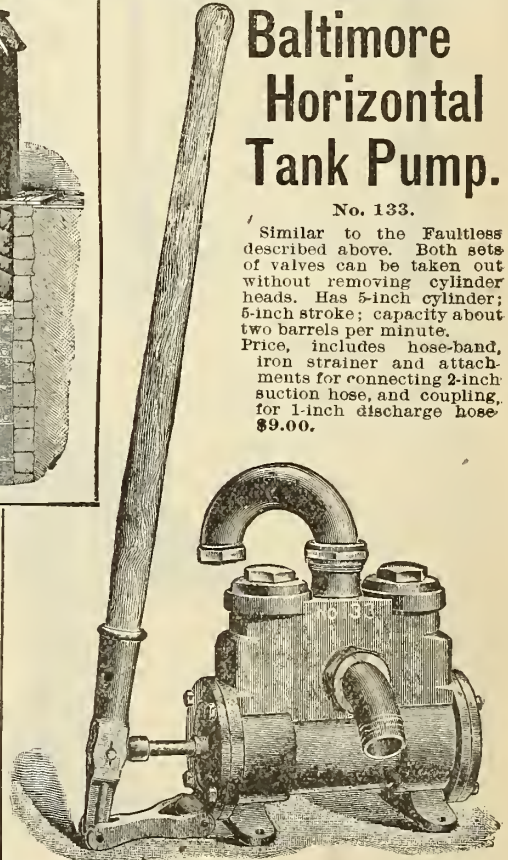


## Baltimore Horizontal Tank Pump.

No. 133.

Similar to the Faultless described above. Both sets of valves can be taken out without removing cylinder heads. Has 5-inch cylinder; 5-inch stroke; capacity about two barrels per minute.

Price, includes hose-band, iron strainer and attachments for connecting 2-inch suction hose, and coupling, for 1-inch discharge hose \$9.00.



## THE QUEEN RUBBER BUCKET.

Figure 1.

Price.....7c.



## Crosby Swivel Link.



Figure 2.

Price, Crosby Swivel Link, 9c.  
Plain.....8c.

## Victor Expansion Rubber Bucket.

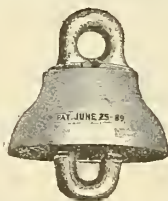


Figure 3.

For chain pumps; anti-freezing. Price.....10c.

## IXL Rubber Bucket.



Figure 4.

Price.....8c.

## WATER CARTS OR TRUCKS AND COMBINATION.

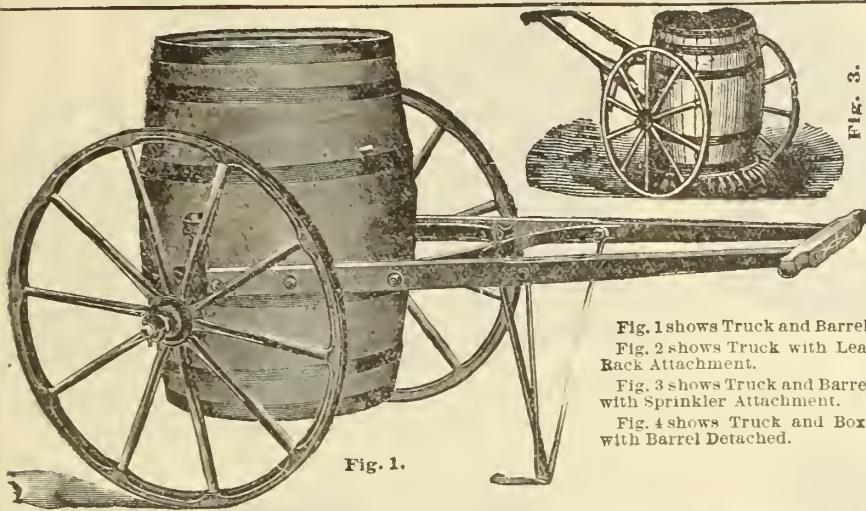


Fig. 1.

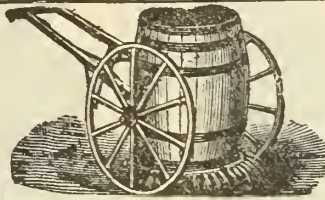


Fig. 2.

Fig. 1 shows Truck and Barrel.  
 Fig. 2 shows Truck with Leaf Back Attachment.  
 Fig. 3 shows Truck and Barrel with Sprinkler Attachment.  
 Fig. 4 shows Truck and Box with Barrel Detached.

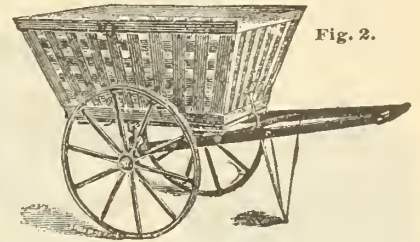


Fig. 3.

Fig. 1. This Fig. represents our Barrel Cart, to which can be attached the Brass Spray Pump. This is a convenient combination, and may be found useful in various ways, such as watering gardens, spraying fruit trees, etc.

The Barrel Cart and Pump may be ordered separately and arranged together to suit the purchaser. The Barrel Cart may be wheeled about when filled with water, to supply sprinkling cans for watering flowers and vegetable gardens. When the running-gear or truck is ordered without barrel the trunnions may easily be fastened to any good water-tight barrel by any person with ordinary mechanical ability.

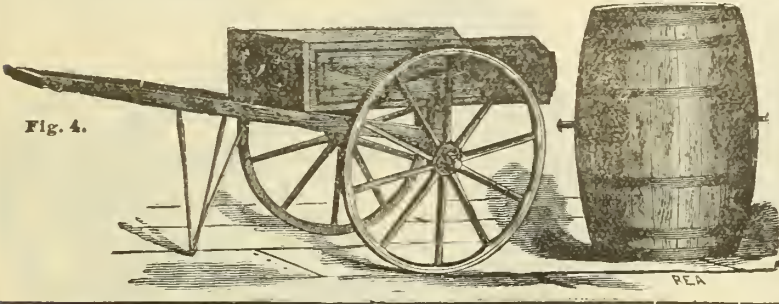


Fig. 4.

**T**HIS shows our Sprinkling Cart, which is indispensable about parks, cemeteries and country seats for watering roads, drives, walks, lawns, etc. The wheels have wide tires and the whole outfit is well made. It can also be used as a Tank Cart for carrying water, spraying trees and removing matter from cess-pools, vaults, etc. Cart for spraying trees and crops. It is substantially made throughout. There is a valve in the bottom of tank, operated by lever, within easy reach of driver. List, \$90.00. Retail, \$75.00.

PRICE LIST.	List.	Retail.
Water Truck .....	\$10.00	\$6.00
Water Truck and Barrel.....	14.00	8.00
Water Truck and Box.....	14.00	8.00
Water Truck, Barrel and Box.	18.00	10.00
Sprinkling Attachment.....	5.00	3.25
Leaf Racks.....	8.00	4.50
New Barrel.....	4.50	2.75
Box .....	4.00	2.75
Trunnions—List, per pair, 75c.		Retail, per pair, 50c.
For 2½-inch Tires on Trucks add to the above price—List, \$1.50. Retail, \$1.00.		
For 4-inch Tires on Trucks add to the above price—List, \$3.00. Retail, \$2.00.		

### EXTRA TRUCK WHEELS.

	List.	Retail.
Regular tire, wood or steel, each.	\$3.50	\$2.25
2½-inch tire, wood or steel, each.	4.50	2.75
4-inch tire, wood each.....	5.00	3.00
3½-inch tire, steel, each.....	5.00	3.00

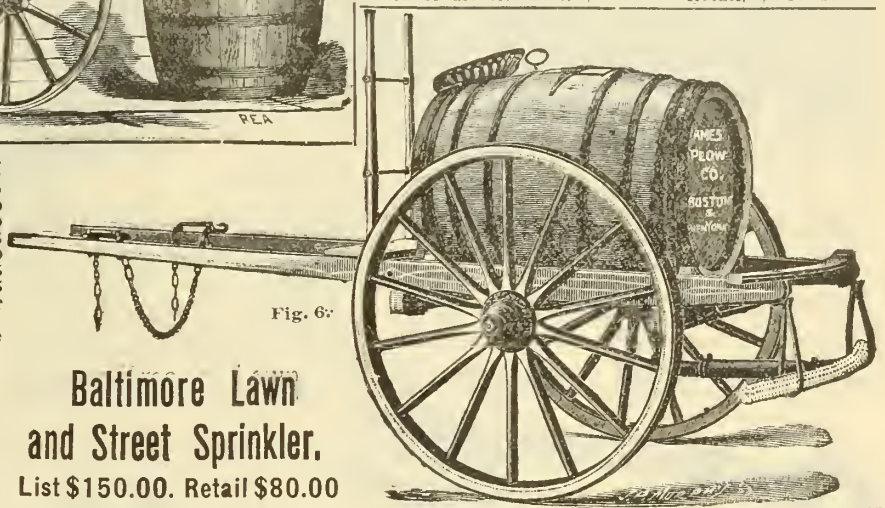


Fig. 6.

### Baltimore Lawn and Street Sprinkler.

List \$150.00. Retail \$80.00

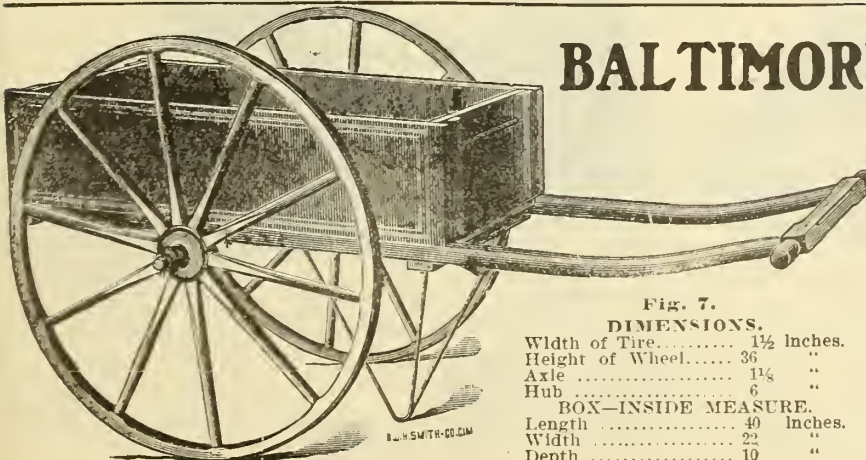


Fig. 7.

DIMENSIONS.	
Width of Tire.....	1½ inches.
Height of Wheel.....	36 "
Axle .....	1¼ "
Hub .....	6 "
BOX—INSIDE MEASURE.	
Length .....	40 inches.
Width .....	22 "
Depth .....	10 "

## BALTIMORE PUSH CART.

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.

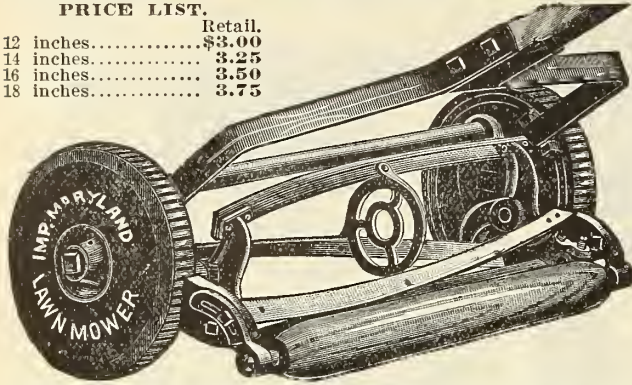
### PRICES.

Retail.....	\$7.50
List.....	13.00
Extra wheels, each—List, \$4.60.	Retail, \$2.85.

## Improved Maryland Regular Mower.

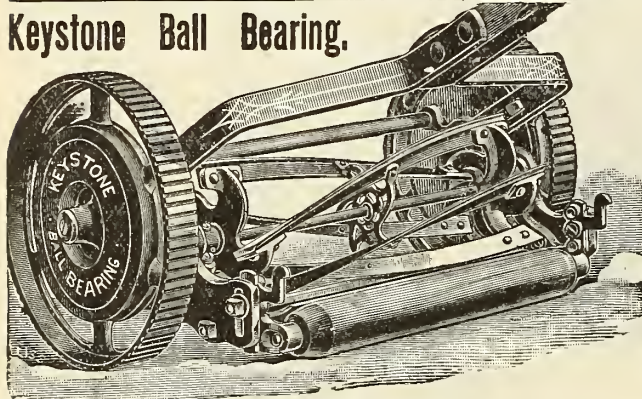
### PRICE LIST.

	Retail.
12 inches.....	\$3.00
14 inches.....	3.25
16 inches.....	3.50
18 inches.....	3.75



THE principle applied in the construction of this Mower is the same as used on machines which are sold for very much more money. The pawl and pinion attachment has been thoroughly tested and is beyond question one of the best to be obtained; 3 blades, 8-inch wheel, 5 1/4-inch cylinder, single pinion. Geared on both sides.

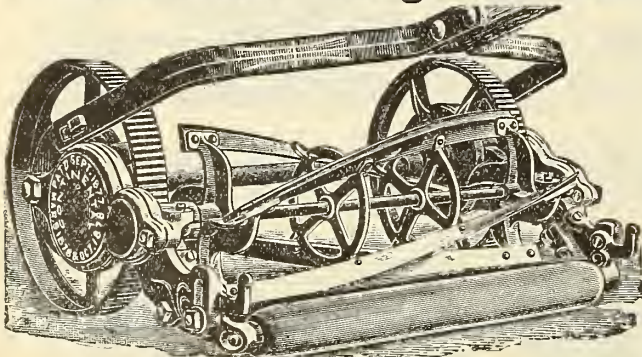
## Keystone Ball Bearing.



Every detail of this Mower is in keeping with the high grade of the Pennsylvania and Continental Mowers. The highest grade steel balls of great exactness are used in dustproof, steel-covered cups. The dead knife of solid cast steel can be regulated to cut from 3/8 to 1 3/8 inches from the ground.

	List Price.	Retail Price.
15 inches.....	\$25.00	\$10.00
17 inches.....	28.00	11.25
19 inches.....	31.00	12.40
21 inches.....	34.00	13.60

## Continental High-Wheel.



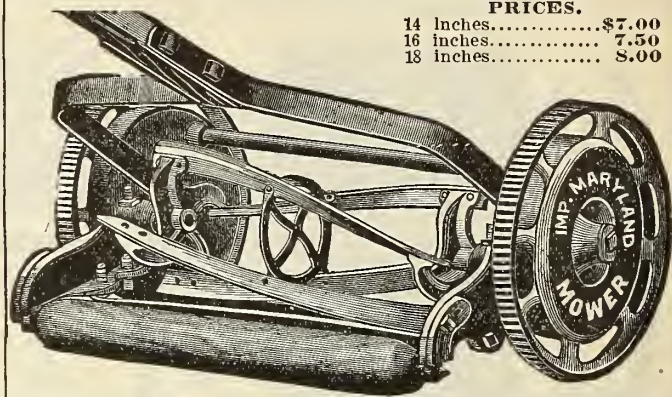
The excellent quality of this machine reflects credit on the manufacturers, their aim being to secure a lawn mower which would give the best possible results. This machine will cut fine grass two inches high, also grass six to eight inches. We highly recommend this machine.

	List Prices.	Retail Prices.
15 inches.....	\$25.00	\$11.25
17 inches.....	28.00	12.60
19 inches.....	31.00	14.00
21 inches.....	34.00	15.25

## Improved Maryland High-Wheel.

### PRICES.

14 inches.....	\$7.00
16 inches.....	7.50
18 inches.....	8.00

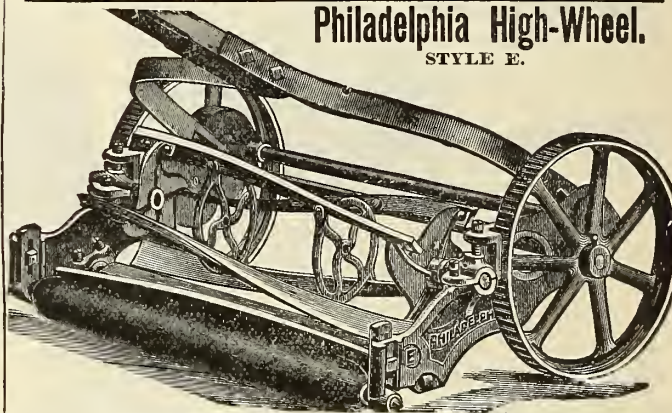


WITH 10-INCH WHEEL, 4-BLADE CYLINDER, SECURITY INCASED GEARS, NOISELESS RATCHET. THE MOWER GEARED ON BOTH SIDES.

No pains have been spared to make this the superior of all others of its class. It is mechanically proportioned so as to run light and do fine work.

## Philadelphia High-Wheel.

### STYLE E.

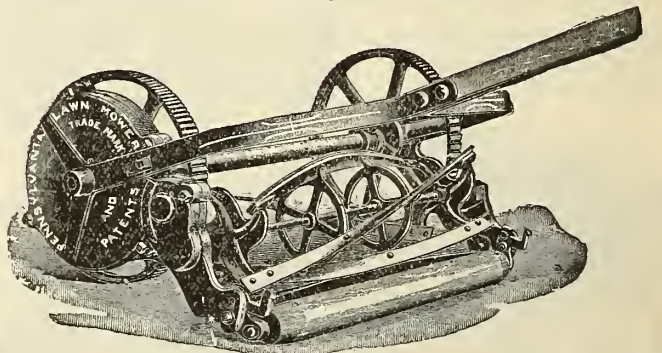


### PHILADELPHIA HIGH WHEEL STYLES.

This Mower contains an improvement that all mowers lack in their construction. A solid frame, that the revolving cylinder can be removed by simply loosening the set-screws to the box caps and removing them and the cutting cylinder.

15-inch.....	List price, \$25.00.	Retail price, \$9.00.
17-inch.....	List price, 28.00.	Retail price, 10.00.
19-inch.....	List price, 31.00.	Retail price, 11.00.
21-inch.....	List price, 34.00.	Retail price, 12.00.

## Pennsylvania High-Wheel Mower.



This high-grade Mower has an extra large cylinder, an extra power of gearing, and is constructed for cutting ordinary grass, as well as grass from six to ten inches high. Wheel, 10 1/2 inches; cylinder, 6 1/2 inches. Four crucible steel knives, hardened and tempered in oil.

	List Price.	Retail Price.
15 inches.....	\$25.00	\$11.25
17 inches.....	28.00	12.60
19 inches.....	31.00	14.00
21 inches.....	34.00	15.25

## BALTIMORE HORSE LAWN MOWER.



The Baltimore Horse Lawn Mower is guaranteed to be equal to any machine made. In order to appreciate its good points it is necessary to see it at work on the lawn, where it performs in a most satisfactory manner.

25-inch Machine, with draft rod.....	Retail Price, \$40.00.	List Price, \$65.00.
30-inch Machine, with draft rod.....	Retail Price, 60.00.	List Price, 100.00.
30-inch Machine, shafts and seat.....	Retail Price, 65.00.	List Price, 110.00.
35-inch Machine, with shafts and seat.....	Retail Price, 77.50.	List Price, 135.00.

**Special Discount for Cash.**

## Old Style Philadelphia Horse Lawn Mower.

This Mower with the sold (or closed) revolving cutter has four blades, and is the original Philadelphia Horse Mower. In ordering, please designate it with open or closed cylinder.

	List.	Retail.
30 in. (open) with draft rod....	\$100.00	\$70.00
30 in. (closed), with draft rod..	100.00	70.00

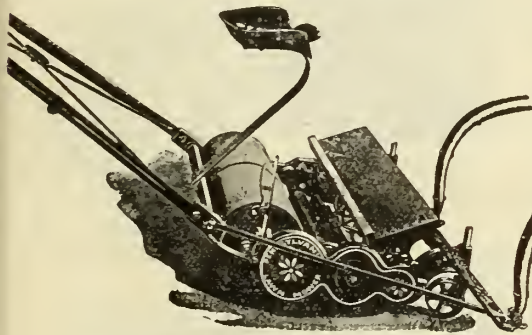
**Special Discount for Cash.**

## Philadelphia I. X. L. Horse Lawn Mowers.

	List.	Retail.
30 in., with draft rod.....	\$90.00	\$50.00
30 in., with shafts and seat....	100.00	55.00
35 in., complete with shafts and seat.....	125.00	70.00
40 in., with shafts and seat....	150.00	85.00

**Special Discount for Cash.**

A singletree and chain attachment will be furnished for \$2.00 net if wanted. If used must be attached to the ends of the side draft attachment, for the draft rod will bend if attached in center.

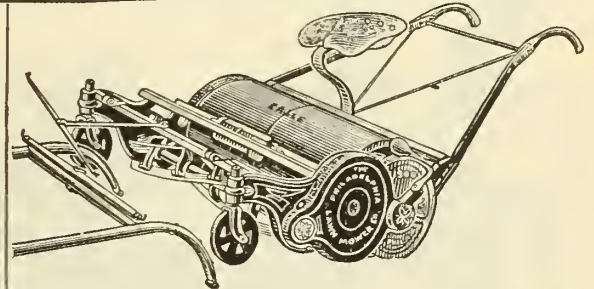


## The Pennsylvania Horse Lawn Mower.

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 cut. Weight, 358 lbs. 4 knives.	List, \$100.00.	Retail, \$65.00.
33-inch cut. Weight, 400 lbs. 4 knives.	List, 130.00.	Retail, 85.00.

For shafts, seat and footboard, add \$12. **Special Discount for Cash.**



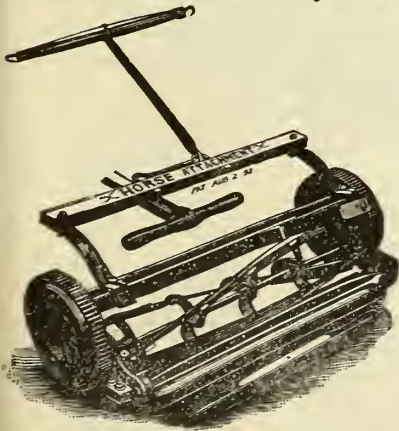
## Philadelphia Eagle Horse Mower

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.	
List price.....	\$100.00
Retail price.....	75.00
35-inch, with seat and shafts and draft pole.	
List price.....	125.00
Retail price.....	92.50
40-inch, with seat and shafts and draft pole.	
List price.....	150.00
Retail price.....	110.00

**Special Discount for Cash.**

## Combination Hand and Pony Mower



The patented horse attachment of the Mower is its great feature. The draft of the Mower is just the same as when operated with the handle.

Diameter of traction wheels, 10 inches; weight, 90 pounds.

Price.....\$18.00

**Special Discount for Cash.**



## Golf Roller Mower.

Peculiarly adapted for use on Golf and Tennis Machines.

The heavy iron roller, together with the speed of the revolving knives, produces the very best results, leaving a smooth-cut surface on the lawn. The adjustments are simple, and the durability and efficiency beyond question.

### PRICE.

	List.	Retail.
10-inch-4 blades.....	\$13.00	\$9.10
12-inch-4 blades.....	15.00	10.50
14-inch-4 blades.....	17.00	11.90
16-inch-4 blades.....	19.00	13.30
18-inch-4 blades.....	21.00	14.70
20-inch-4 blades.....	23.00	16.10

add to list \$1.00. For retail add 70c.

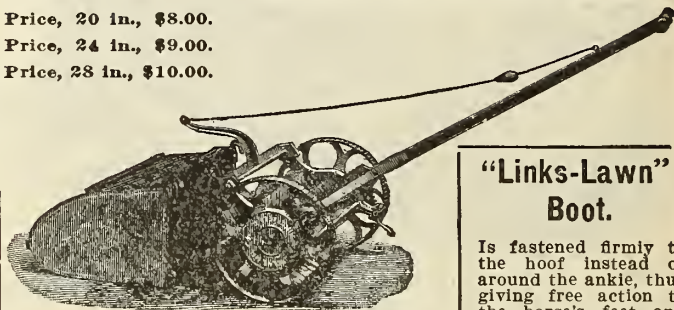
## Lawn Mower Repairing and Sharpening.

**S**END 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 machines 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.

### "Apollo" Lawn Sweeper.

Price, 20 in., \$8.00.  
Price, 24 in., \$9.00.  
Price, 28 in., \$10.00.

This is the best Lawn Sweeper we have ever seen. And one of the best features is its ability to sweep clean fallen fall leaves, and although a lawn sweeper, it does excellent work on any plane surface large enough to permit of its operation. It consists of a revolving brush (broom action), made of Tampico, tough, durable and not affected by water. A lever adjusts the height of the brush and takes up its wear. Light-running. A child can operate it.



#### UNIVERSAL GRASS CATCHER.

WILL FIT ANY MOWER.

Canvas body, blacked sheet-steel bottom.

TWO SIZES.

No. 1 will fit 10, 12, 14 and 16-inch mower, and No. 2 will fit 16, 18 and 20-inch. Price..... 75c.

### "Links-Lawn" Boot.

Is fastened firmly to the hoof instead of around the ankle, thus giving free action to the horse's feet and obviating all possibility of chafing. Our process of hardening, water-proofing and steel-riveting the sole inside and out (see cut) gives a durability never before obtained in a lawn boot. The rolling toe prevents the cutting of the turf!



#### WIDTH INSIDE.

No. 2..... 5½ inches.  
No. 4..... 6½ inches.  
No. 6..... 7 inches.

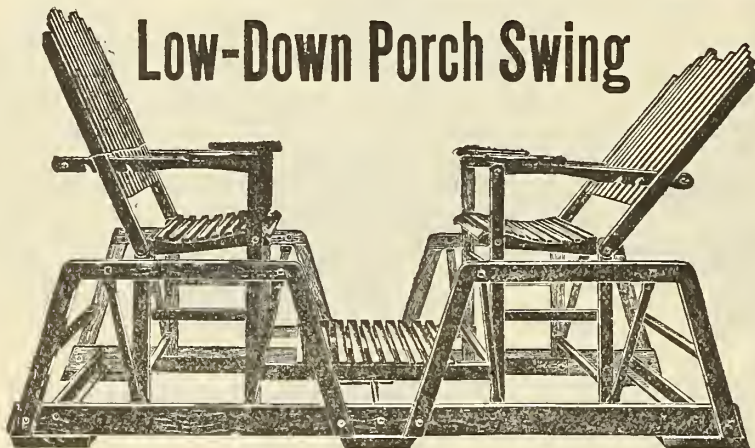
The right sizes for Nos. 2, 4 and 6 horseshoes. No. 0 Mule and No. 1 Pony. Special sizes to order.

#### WIDTH INSIDE.

4 inches. 4½ inches.

Price, any size..... \$9.00 per set.

### Low-Down Porch Swing



The swing has an adjustable footrest that may be placed at the proper height to suit the children, and it is so perfectly balanced that the smallest child can operate it.

The backs of the swing may be adjusted to any desired position. Without being thrown back and footrest raised, and with the addition of robes and cushions, it makes a most comfortable swinging couch.

#### OUR SPECIAL PRICE.

	List.	Retail.
Two-passenger swing.....	\$12.00	\$8.00
Four-passenger swing.....	14.00	9.00



Baltimore Lawn Settees.

This most comfortable Lawn Seat is illustrated herewith. It is attractive, and gives plenty of room. Just the thing for parks, porches, picnic grounds, hotels, cemeteries, etc.

Painted bright red and varnished. Weight, No. 6, 65 pounds.

#### OUR SPECIAL PRICE:

Per foot....List, \$1.30. Per foot.....Retail, 75c.  
We carry in stock 4 and 5-foot length seats.

### LAWN SWINGS.—THE HOOSIER.

One of the best Swings on the market. Made from selected stock, very strong. Chairs have three adjustments. Footrest can be raised level with the seats to form a hammock. Can adapt height of seats for children. Two and four passenger.

	List.	Retail.
Price, two passenger.....	\$9.50	\$7.00
Four passenger.....	11.00	8.00

### THE BONANZA SWING.

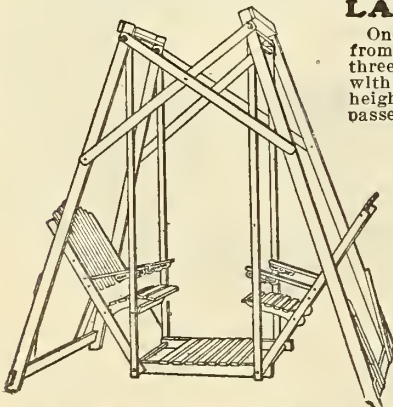
Two and four passenger; built of hardwood; has all the desirable features of the Hoosier, but can be sold for less money.

	List.	Retail.
Price, two passenger.....	\$7.50	\$6.00
Four passenger.....	9.50	7.00

### THE ZEPHYR SWING.

Same quality of material as the Bonanza. A good strong substantial Swing.

	List.	Retail.
Price, 2 passenger.....	\$6.50	\$5.00
Four passenger.....	8.50	6.00



The cut does not exactly represent these Swings, but is practically the same. Could not get electro in time for this issue.

### Arctic Swinging Chair.

The Latest Design for a Swinging Chair Yet Produced.

It occupies on the porch floor a space about six feet long by three feet wide, and about six feet high. It is made of the most substantial material, the best of dry hardwood and steel arms and braces, and arch of steel tubing. It is provided with a footrest, adjustable for children or adults.

List.....\$6.50  
Our Special price \$4.00





## LAWN AND FIELD ROLLERS.

### The Baltimore 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 counter-balance, which holds up the handle and makes it easy to push.

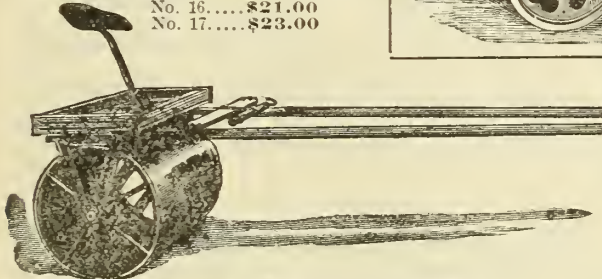
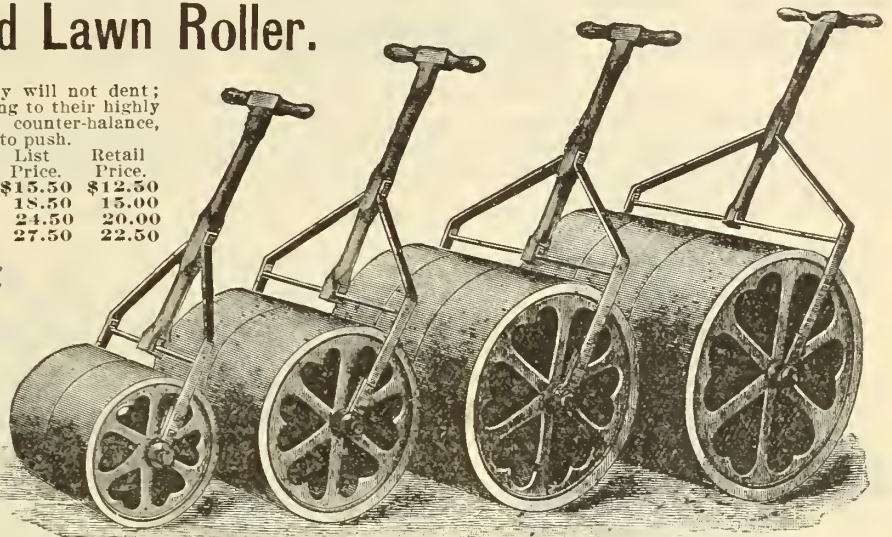
No.	Width	Diam.	Total	Weight.	List	Retail
Sec.	Face.	Sec.	Length.		Price.	Price.
4	2	10 in.	20 in.	250 lbs.	\$15.50	\$12.50
6	3	8 in.	20 in.	300 lbs.	18.50	15.00
9	2	10 in.	24 in.	400 lbs.	24.50	20.00
11	3	8 in.	24 in.	450 lbs.	27.50	22.50

We can furnish above rollers to weigh 50, 100 or 150 pounds more than the weights given, for which add 4 cents per pound.

### THE BALTIMORE HORSE LAWN ROLLER.

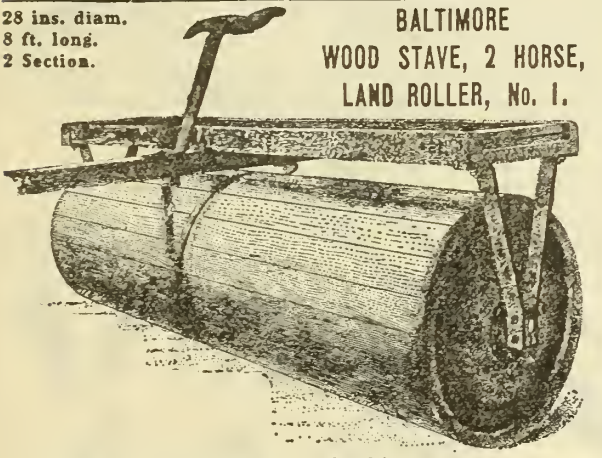
This Roller is furnished with seat. We furnish this Roller in two sizes, Nos. 16 and 17. No. 16 (see cut) has 26-inch steel rim, 4 feet, one section, one horse; weight, 375 pounds. No. 17 has 26-inch steel rim, 4 feet, two sections, one horse; weight, 425 pounds.

No. 16.....\$21.00  
No. 17.....\$23.00



28 ins. diam.  
8 ft. long.  
2 Section.

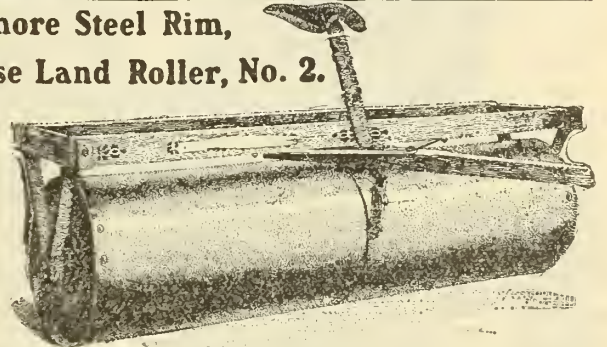
### BALTIMORE WOOD STAVE, 2 HORSE, LAND ROLLER, No. 1.



The rim of this roller is made of hard lumber, well seasoned and selected stock, made to fit into the edges of the pressed steel head. By this construction the edges of the rim are protected by sheet steel edges of the head. The whole is held together by three long bolts running lengthwise on the inside of the roller. By so doing the steel heads are clamped together, instead of the pieces being bolted to the head. It is equipped with steel end and center hanger, low hitch and removable chilled bearings. The axle extends through both roller sections.

PRICE ..... \$20.00

### Baltimore Steel Rim, 2 Horse Land Roller, No. 2.



The illustration shows the construction of our 24 and 26-inch, 6, 7 and 8-foot 2-section steel-rim roller, with steel spring and seat. This is one of the most popular rollers.

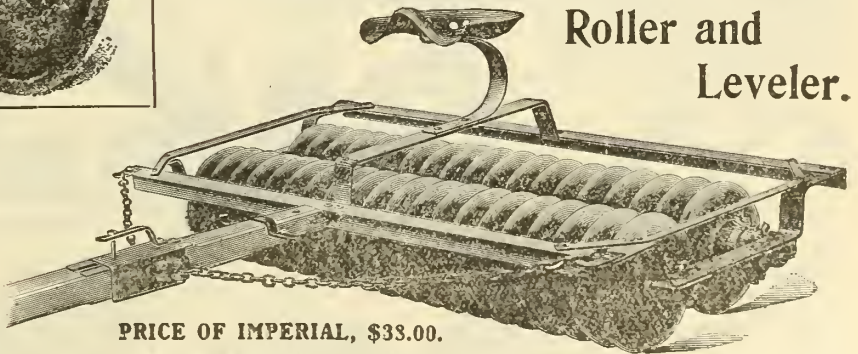
The heads are pressed steel with removable chilled bearings. It also has center hanger and low hitch.

PRICE..... \$25.00

### CAST-IRON FIELD ROLLERS.

FULL ASSORTMENT OF SIZES. Prices on application.

### Imperial Pulverizer, Clod Crusher, Roller and Leveler.



PRICE OF IMPERIAL, \$33.00.

SPECIAL DISCOUNT FOR CASH.

The "Imperial" is composed of two sets of hollow-disc rollers which turn upon a revolving axis, one set being placed directly behind and just in the center of the other, thereby covering every inch of ground, and effectually pulverizing the hardest clods, and at the same time subjecting the ground to a pressure and packing the soil a couple of inches below the surface, enabling it to retain moisture, and at the same time leaving the surface loose, mellow and level for the recep-

tion of the seed. Most pulverizers tear up the soil and leave it too loose to retain the moisture, or to allow the roots to obtain a firm hold, while others, in their attempt to pack the soil, will press clods beneath the surface, thereby leaving it in a very undesirable condition for the reception of the seed, and, if a harrow is put over the field again, all the clods come to the surface and the field is as rough as ever.

**NEW UNIVERSAL GARDEN TOOLS.**

**Matthews' *New Universal* Garden Drill.**

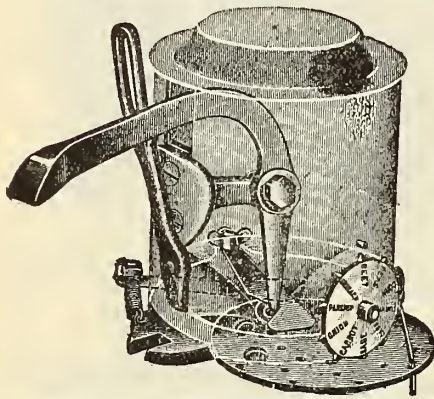
ONE OF THE STANDARD DRILLS OF AMERICA.

SIMPLE IN CONSTRUCTION. NEAT IN DESIGN. EFFICIENT IN OPERATION. NONE BETTER CAN BE PROCURED.

Medals and testimonials confirming the superiority of the "Matthews" have been repeatedly bestowed upon it from all quarters, and as it has been improved from time to time it has always been acknowledged ONE OF THE MOST PERFECT DRILLS MADE. The present form is the neatest and simplest yet produced, and cannot fail of proving an even more popular modification of this reliable Drill.

Our Retail Price .....\$6.50 List Price.....\$8.00

**The Seeding Device.**



**PATENT SEED INDICATOR USED ON ALL GENUINE DRILLS.**

Seeding can be regulated to exact quantity desired.



THE SEEDING DEVICE employed on all Matthews' Seeders is set forth in the accompanying illustration, showing transparently the solid wall of the seed box. The indicator, which is also shown above, 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 CENTRE of the hole in 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. The feed is practically a force feed. No other device ever met with the success of the AGITATOR principle for dropping all the small garden seeds. The seed is not bruised or damaged by the AGITATOR. The MANUAL CUT-OFF indicated in the illustration by the dotted lines, with its spiral spring connection, is worked from the handle by a wire, and the flow of seed may thus be instantly checked. No seed need be wasted in turning rows.

**Matthews' *New Universal* Hill and Drill Seeder.**

This implement is the same in style and working qualities as the one just described, but 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. There are no parts to wear or get out of order. 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. Our retail price, \$7.25. List price, \$9.00.

The manufacturers of this line do not make a Hill and Drill Seeder with cultivating attachments, and we would recommend, as FAR PREFERABLE, one of the above separate drills and a separate single wheel hoe complete, with ALL the attachments, for which our retail price covering the two separate implements is only \$12.00.

**Matthews' *New Universal* Constellation Seeder, Hoe, Cultivator, Plow, Rake and Marker.**

This is not only a desirable combination of the Garden Drill already described with the New Universal Cultivating attachment, but it has the advantage of being either a double wheel or single wheel implement at will, the change from one to the other being readily made.

The use of a one-wheel Seed Sower insures the nicer work, as if two wheels are used an obstruction under one wheel or the other has a tendency to crook the rows, and this makes after-cultivation harder. The operator always has a one-wheel seeder under full control, and in addition the single wheel follows in the mark made when planting the previous row and presents a sight to keep the rows straight. The two wheels are desirable, however, 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 combination is one which cannot fail of recommending itself to all. The attachments are—One (1) Pair Hoes, Five (5) Cultivator Teeth, One (1) Pair Rakes, One (1) Pair Plows.

List Price, boxed.....\$10.50

Retail Price, boxed..... 8.50

Can be used as one wheel or two wheel.



**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.

***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.

Retail Price, \$5.00 List Price, \$6.25

Send for Special Catalogue containing full description of all New Universal and Matthews' Tools.

## New Universal Hand Double Wheel Hoe, Cultivator, Plow and Rake

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 to 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.

1 Pair Hoes. 1 Pair Narrow Cultivators. (OUR RETAIL PRICE, \$5.50.) Specially designed for working both sides of the row at one passing.  
 1 Pair Plows. 1 Pair Wide Cultivators. LIST PRICE, - - \$6.50.  
 1 Pair Rakes. 1 Pair Vine Guards.

## New Universal HIGH ARCH EXPANSION WHEEL HOE, CULTIVATOR, RAKE AND PLOW.

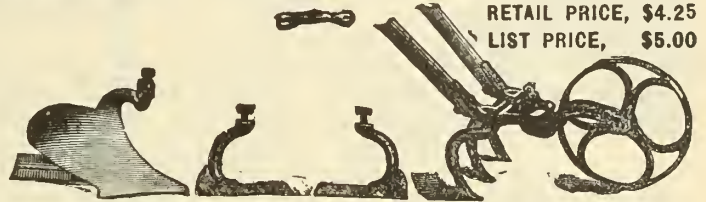
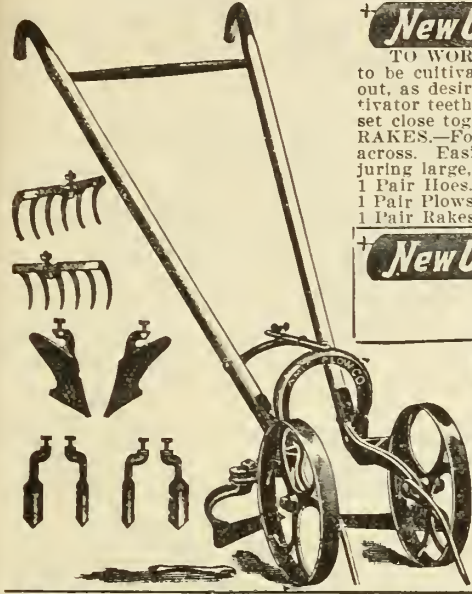
This is a larger implement than the Double Wheel Hoe just described, and high enough to cultivate over 20-inch plants. Can be used as a One Wheel as well as a Two Wheel. Has 5 cultivator teeth instead of 4. List, \$9.50. Retail, \$8.00.

## New Universal DOUBLE WHEEL HOE, With Hoe Blades Only.

Retail Price,.....\$3.50 List Price.....\$4.25

## New Universal "FLIER" HAND SINGLE WHEEL HOE, CULTIVATOR AND PLOW No. 2.

RETAIL PRICE, \$4.25  
 LIST PRICE, \$5.00



## New Universal HAND SINGLE WHEEL HOE, CULTIVATOR.

**Plow and Rake.**—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.  
 List Price ..... \$5.75. Retail Price.....\$4.75.

## New Universal Hand Single Wheel Hoe.

With Hoe Blades Only, No. 2. Retail \$2.75. List \$3.25

## New Universal HAND Wheel Plow.

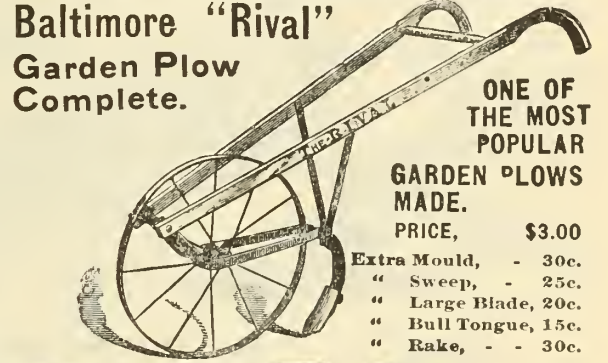


This can be used to prepare the ground, to furrow out, to cover and to cultivate. The mould board is of steel, polished and tempered.  
 List Price, \$2.50.  
 Retail Price, \$2.00.

## New Universal Draw Plow.

This is the same Plow, and is standard, as used in the NEW UNIVERSAL HAND WHEEL PLOW, fitted with long handle, to be drawn instead of being pushed. List Price, \$2.00. Retail Price, \$1.65.

## Baltimore "Rival" Garden Plow Complete.



ONE OF THE MOST POPULAR GARDEN PLOWS MADE.  
 PRICE, \$3.00

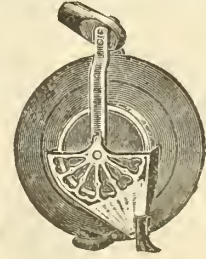
- Extra Mould, - 30c.
- " Sweep, - 25c.
- " Large Blade, 20c.
- " Bull Tongue, 15c.
- " Rake, - - 30c.



## THE ORIOLE GARDEN PLOW.

EASY ON THE OPERATOR.  
 Price, - - \$3.50

The center of weight falls directly over the pivoting point of the wheel axle, making it self-balancing. Handles can be raised or lowered to suit man or boy. The cross-handle makes the plow much more easily guided and pushed, with less strain on the arms than the vertical or bent handles. The weight of the operator's body can be used against handle. The material and finish of the entire plow, except cross-handle, is made of very best stiff steel. The attachments that go with each plow are a mouldboard with land side, shovel, calftongue, weeder and cultivator. The cultivator is better than a rake.



Have You a Hot-Bed?  
 It's 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

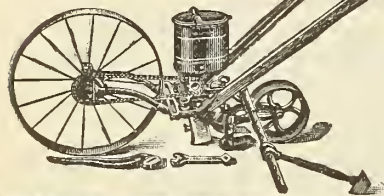
## No. 18. IRON AGE SEED DRILL.

One of the Lightest, Strongest and Most Reliable Seed Drills on the Market.

Price \$6.50.

No. 17. Same tool with the addition of the cultivating tools.

Price \$9.00.



No. 6.

## Iron Age Combined Double Wheel

Hoe Hill and Drill Seeder. Price \$11.00



## Iron Age Hill and Drill Seeder No. 8. Price \$10.00.

For all gardeners and truckers who require a Seed Drill of large seed capacity. The wheel is made of steel, 15 inches high. The Hopper is low, therefore the delivery of the seed is close to the ground. The agitator is a revolving brush, which absolutely does not injure the seed. The Seeder will sow in continuous rows or drop in hills at 4, 6, 8, 12 or 24 inches apart.

In the No. 6 Hill and Drill Seeder is combined a drill seeder with hill dropping device, a double wheel hoe and a single wheel hoe. It sows in drills and drops with perfect accuracy all the seeds varying in size from celery to corn. Will drop in hills at 4, 6, 8, 12 or 24 inches apart.



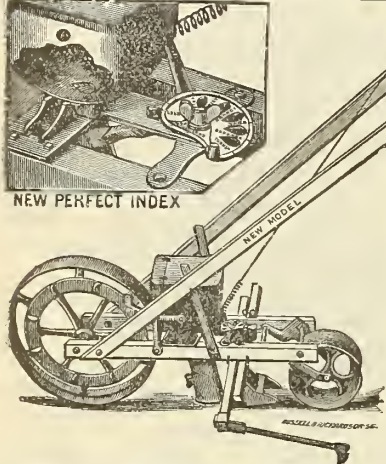
NEW PERFECT INDEX

## 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, which is provided with a perforation of similar shape in a reversed position. This size can be instantly adjusted to size indicated by index or to a hair's breadth variation.

The names of the principal seeds are plainly shown on the index. The flow of seed can be instantly stopped by a swinging cut-off. This cut-off prevents all loss of seed.

Price, \$7.50.



## No. 1. Iron Age Double Wheel Hoe.

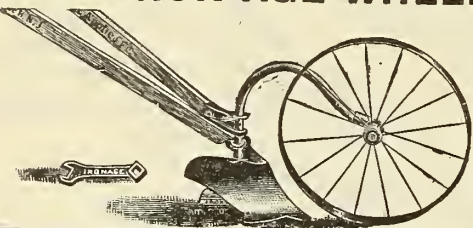
As shown in cut.

Price, \$6.50.



No. 3. Iron Age Double Wheel Hoe. Same tool as shown in cut, but with hoes only. \$3.75.

## No. 11. IRON AGE WHEEL PLOW.



A tool needed in every kitchen garden for breaking ground, opening furrows, ridging up, covering and plowing.

Also an excellent tool for poultry men in turning under the droppings in poultry yards.

Price, \$2.25.

## No. 20. IRON AGE SINGLE WHEEL HOE.

Is a steady, strong, light and easy-running tool, with attachments as shown in cut.

Price, \$5.50.



## The Baltimore Single Wheel Garden Cultivator.

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.

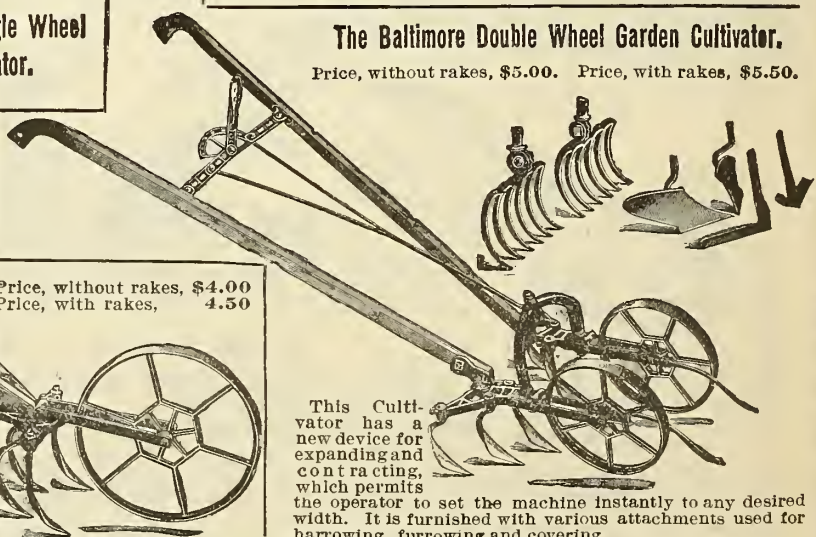
Price, without rakes, \$4.00  
Price, with rakes, 4.50



## The Baltimore Double Wheel Garden Cultivator.

Price, without rakes, \$5.00. Price, with rakes, \$5.50.

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.



# FORKS AND RAKES.

## Manure Forks.



No. 23 or 344.—Oval four-tine, light, not strapped.....50c. each.  
 No. 24 or 3044.—Four-tine, 4½ ft. handle, strap ferrule.....60c. each.  
 No. 100 or 044½.—Oval four-tine, 4½ ft. handle, strapped and capped.....60c. each.  
 No. 124 or 1124.—Four-tine, patent locked, strapped.....60c. each.  
 No. 1106.—Patent locked, extra heavy, full polished, strapped.....75c. each.  
 No. 605 or 054½ X.—Five-tine, strapped, long handle.....85c. each.  
 No. 606 or 064½ X.—Six-tine, strapped, long handle.....\$1.00 each.  
 No. 24½ or 304 D.—D handle, four-tine, 50c. each.  
 No. 105½ or 04 D.—D handle, four-tine, strapped.....75c. each.  
 No. 107½ or 4 D.—D handle, four-tine, cap ferrule.....65c. each.  
 No. 505½ or 05 D X.—D handle, five-tine, cap ferrule.....85c. each.  
 No. 506½ or 06 D X.—D handle, six-tine, cap ferrule.....\$1.00 each.  
 No. 62 or 150.—Four-tine, diamond tine, heavy, malleable D handle.....\$1.00 each.

## SPADING FORKS.

No. 170 or 1170.—Pat. Locked, Spading Forks, extra heavy, strap ferrule. Price.....90c. each.  
 No. 04½.—Malleable D handle, angular tine, strapped ferrule. Price.....50c. each.  
 No. 177½ or 1177½.—Four-tine, angular back. Price.....75c. each.  
 No. 27½ or L. 4.—Medium weight, angular tine, malleable D handle, strap ferrule. Price.....75c. each.  
 No. B 4.—Boys' four-tine. Price.....50c. each.



THE IOWA FARMING TOOL CO.,

FORT MADISON, IOWA.

General Utility Fork



SCOOP SHAPE

SPECIAL PRICES IN QUANTITIES ON ALL FORKS.

No. 1010 or 910.—Ten-tine, scoop shape, malleable D handle, strap ferrule. Price.....\$1.50 each.  
 No. 1012 or 912.—Ten-tine, scoop shape, malleable D handle, strap ferrule. Price.....\$1.75 each.  
 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, 14-tine, D handle, strap ferrule. Price.....\$1.85 each.  
 No. 710 or 100.—Ten-tine, D handle, stone forks. Price.....\$1.50 each.

## OAT AND BARLEY FORKS.



Price, each.....65c.  
 Per dozen.....\$7.20.

## HAY FORKS.

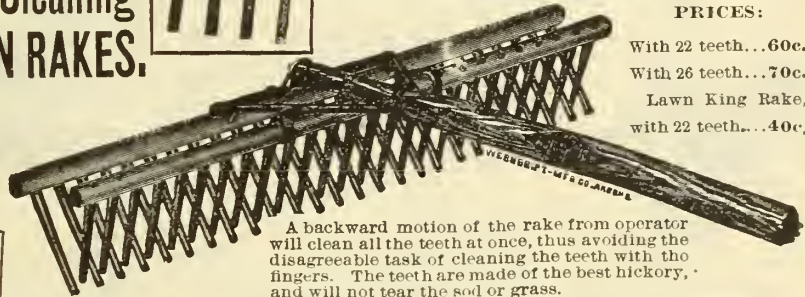
SILVER POLISH.  
 DAMASCUS TEMPER.



No. 345 or 026.—Two-tine hay, strap, ferrule, straight 6 ft. handle. Retail price.....50c. each.  
 No. 341 or 036.—Three-tine hay, strap, 5 ft., straight handle. Retail price.....60c. each.  
 No. 141 or 36.—Three-tine hay, common or plain, 6 ft., straight handle. Retail price.....50c. each.  
 Seven or Eight Foot Handle Forks, Extra.

## Automatic Self-Cleaning LAWN RAKES.

10 Teeth, all Wood, Hay Rake.....25c.  
 20 Teeth, all Wood, Lawn Rake.....50c.



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. The teeth are made of the best hickory, and will not tear the sod or grass.

## STABLE FORKS.

Three-prong Ash, Bonner.....50c.  
 Three-prong Oak Wood Stable Forks.....60c.  
 Four-prong Oak Wood Stable Forks.....60c.

PRICES:

With 22 teeth...60c.  
 With 26 teeth...70c.  
 Lawn King Rake, with 22 teeth...40c.

## STEEL RAKES.

No. 210 or 10 C.—Single shank, solid steel, 10 in....40c. each.  
 No. 212 or 12 C.—Single shank, solid steel, 12 in....45c. each.  
 No. 214 or 14 C.—Single shank, solid steel, 14 in....50c. each.  
 No. 216 or 16 C.—Single shank, solid steel, 16 in....55c. each.

## MALLEABLE RAKES.

Retail Price.  
 No. 111 or 010 M.—10-tooth, single shank...15c. each.  
 No. 113 or 012 M.—12-tooth, single shank...20c. each.  
 No. 115 or 014 M.—14-tooth, single shank...25c. each.  
 No. 117 or 016 M.—16-tooth, single shank...25c. each.  
 No. 13 or B 12 M.—12-tooth, braced shank...25c. each.  
 No. 15 or B 14 M.—14-tooth, braced shank...30c. each.  
 No. 17 or B 16 M.—16-tooth, braced shank...30c. each.  
 No. 1.—Solid steel, turf edger.....50c. each.  
 No. 30.—Steel thistle dock cutter.....50c. each.

## PRIZE BOW-BRACED, SOLID STEEL RAKES.

No. 4 or B 12.—Prize bow, braced rake, solid steel, 13 teeth. Retail price.....60c. each.  
 No. 6 or B 14.—Prize bow, braced rake, solid steel, 15 teeth. Retail price.....75c. each.

## THE BOSS GARDEN RAKE.

Strong, All-Steel, Tinned, Cheap.

No. 18.—15½-inch head, 18 steel-pointed teeth, 40c. each.

Boss 6-tooth weeder, 25c. each.

## QUEEN STEEL GARDEN RAKE.

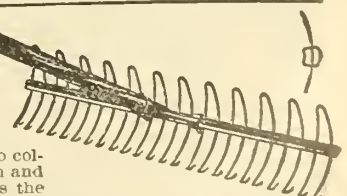


NEAT, STRONG AND DURABLE.  
 Bright Finished Twisted Teeth.

14 teeth.....35c.  
 16 teeth.....40c.

## ALL-STEEL LAWN RAKE.

In this rake there is no opening in front or back of head in which to collect dirt. As can be seen by the shape of the teeth, they run smooth and will not dig in the sod. The teeth being bent at the points, makes the rakes run smooth, and will not tear the soil. By reversing, the double teeth are used for leaves and rubbish. 21-inch head, 24 teeth.....50c.



REVERSIBLE, HEAVILY TINNED.

## "KRETSINGER" Cut easy Hoe.



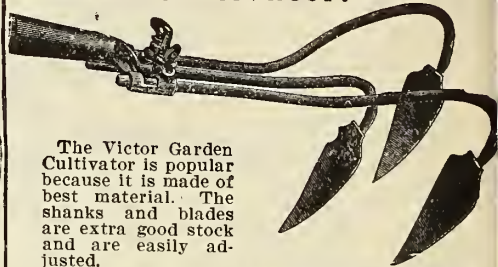
**DO YOU SEE THAT EDGE**

**KRETSINGER CUT-EASY HOE.**

This is the finest Hoe made. Cuts easy, sells easy. Try it.

- K. 1—Kretsinger Socket Hoe..... 55c.
- K. 2—Kretsinger Shank Hoe..... 55c.

## THE "VICTOR" Garden Cultivator.



The Victor Garden Cultivator is popular because it is made of best material. The shanks and blades are extra good stock and are easily adjusted.

No. 90—Complete, on 5-foot handle, with 3x5 blades. Each.....\$1.00

### SCUFFLE HOES.

- 4 inches, English..... 50c.
- 6 inches, English..... 60c.
- 8 inches, English..... 70c.
- 10 inches, English..... 80c.
- No. X, G. S. Brace or Shank Scuffle Hoe, 8-inch Steel Blade, with Handle..... 50c.

See also Page 54.

### COTTON HOES.

- No. 127—7 in. Handled Cotton Hoe..... 40c.
- No. 127½—7 in. Handled Cotton Hoe..... 45c.
- No. 128—8 in. Handled Cotton Hoe..... 50c.

## GARDEN HOES.

- No. 1—Solid Steel Garden Socket Hoe, XX Handle.....45c.
- No. 2—Solid Steel Garden Shank Hoe, XX Handle.....40c.
- R 1 or No. 20—Riveted Shank, Garden Hoe.....25c.
- No. 5—Solid Steel Lady's Shank Hoe, XX Handle.....30c.
- No. 2 P—Two-Point, Solid Steel Weed Hoe.....30c.
- No. 1 P—Sharp Point, Steel Blade Weed Hoe.....25c.

### PLANTER HOES.

- No. 107—Heavy Handled Planter Shank Hoe, 7-inch blade..... 50c.
- No. 107½—Heavy Handled Planter Shank Hoe, 7½-inch blade..... 50c.
- No. 108—Heavy Handled Planter Shank Hoe, 8-inch blade..... 60c.

### WARREN HOE.

Very useful in making rows and weeding onions. Hilling, drilling and weeding, covering seeds, etc.

- W. 7—Polished Steel Garden..... 60c.
- W. 7½—Polished Steel Field..... 75c.

## CRESCENT DOUBLE BIT HOE

- No. 70—Crescent Double-Blit Hoe, Blades 3¼ in. and 7 in.....50c.

### ICE HOOKS.

- No. 06 I—6 ft. Handle, Strapped ferrule.....50c.
- No. 07 I—7 ft. Handle, Strapped ferrule.....65c.
- No. 08 I—8 ft. Handle, Strapped ferrule.....75c.

### SIDEWALK CLEANERS.

- No. X 8—8-in. Steel Blade....50c

### MANURE FORK HANDLES

- |              |            |              |
|--------------|------------|--------------|
|              | List price | Retail price |
|              | Per doz.   | Each.        |
| No. X—4½ ft. | \$2.10     | \$.15        |

### HAY-FORK HANDLES.

- |              |        |       |
|--------------|--------|-------|
| No. X—5½ ft. | \$1.95 | \$.15 |
| No. X—6 ft.  | 2.25   | .20   |
| No. X—7 ft.  | 3.15   | .25   |
| No. X—8 ft.  | 4.50   | .30   |

### RAKE HANDLES.

- |             |             |              |
|-------------|-------------|--------------|
|             | List price. | Ret'l price. |
| No. X—5 ft. | \$1.50      | \$.15        |

### FIELD HOE HANDLES.

- |             |        |       |
|-------------|--------|-------|
| No. X—..... | \$1.30 | \$.15 |
|-------------|--------|-------|

### SHOVEL HANDLES.

- |                          |        |       |
|--------------------------|--------|-------|
| No. X—L. H., 4½ ft.....  | \$3.00 | \$.20 |
| No. X—D. H., 4½ ft.....  | 3.50   | .25   |
| No. X—D. H., spade hdls. | 3.35   | .25   |

### SPROUTING HOES.

- No. 64½—Heavy Handled Sprouting Hoe, 4½-in. blade, special temper..... 60c.

### CORNSTALK CUTTER HOE.

- 6-inch Cornstalk Cutter Hoes, Heavy, Solid Steel Shank, 30-inch Handles..... 40c.

### HEAVY HANDED MATTOCK HOE.

Sharp pointed like a pick at one end, mattock at the other.  
No. 75—Heavy Handled Mattock Hoe, special temper, 60c.

### EUREKA WEEDERS.

- No. E—Short Handle..... 25c.
- No. E L—Long Handle..... 35c.

See also Page 54.

### 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

### STEEL SOLID HANDLE POST SPADE.

Flattened at one end like a spade. The other end is sharpened and can be used as a crowbar. Light, durable, effective, cheap. Price, \$2.00.



## SHOVELS, SPADES, PICKS, Etc.



Plain Back,  
Long Handle, Round  
Point.  
Trade No. 542.



Hollow Back,  
Long Handle, Round  
Point.  
Trade No. 242.



D Handle, Round  
Point.  
Trade No. 732.



Hollow Back,  
Eastern Pattern or  
Coal Scoop.  
Trade No. 263.



Hollow Back,  
D Handle, Square  
Point.  
Trade No. 212.



D Handle Spade.  
Trade No. 552.

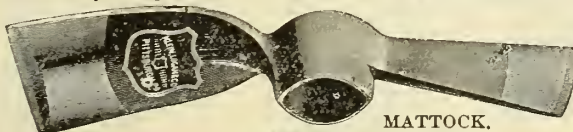
Vulcan, High-Grade Crucible Steel, Long Handle, Round Point, No. 2 Shovel.....\$1.25.

### PLAIN BACK SHOVELS.—Carbon Steel.

No.	Each.
542 Penn—Long Handle, Round Point Shovels, Size No. 2.....	90c.
512 Penn—D Handle, Square Point Shovels, Size No. 2.....	90c.
513 Penn—D Handle, Square Point Shovels, Size No. 3.....	95c.
514 Penn—D Handle, Square Point Shovels, Size No. 4.....	1.00
532 Penn—D Handle, Round Point Shovels, Size No. 2.....	90c.
533 Penn—D Handle, Round Point Shovels, Size No. 3.....	95c.
742 Corry—Long Handle, Round Point Shovels, Size No. 2.....	65c.
722 Corry—Long Handle, Square Point Shovels, Size No. 2.....	65c.
732 Corry—D Handle, Round Point Shovels, Size No. 2.....	65c.
712 Corry—D Handle, Square Point Shovels, Size No. 2.....	65c.
713 Corry—D Handle, Square Point Shovels, Size No. 3.....	70c.
714 Corry—D Handle, Square Point Shovels, Size No. 4.....	75c.
No. 2—Long Handle, Riveted Back, Round Point Shovels.....	50c.

### SNOW SHOVELS. Long Handle, Steel Socket..... 50c.

### PICKS, MATTOCKS AND GRUB HOES.



MATTOCK.



PICK.

No.	Retail.	List.
No. 1—5 lb. Best Quality Warranted Steel Mattocks.....	\$.90	.....
No. 1—6 lb. Best Quality Warranted Steel Mattocks.....	1.00	.....
No. 2—5 and 6 lb. Best Refined Iron Mattocks (Steel Cutters).....	.70	\$17.00
No. 1 and 2—Warranted Steel Grub Hoes.....	.65	.....
No. 1—3 1/4 lb. Best Refined Iron Grub Hoes (Steel Bit).....	.45	12.00
No. 2—4 lb. Best Refined Iron Grub Hoes (Steel Bit).....	.50	13.00
No. 1—6 to 7 lb. Best Quality Warranted Steel Railroad Picks.....	.90	.....
No. 2—6 to 7 lb. Best Refined Iron Railroad Picks (Steel Point).....	.60	13.50

### PICK AND MATTOCK HANDLES.

No.	Retail.
No. XX—Best Quality, Selected, Second Growth Hickory Pick Handles.....	25c.
No. X—Good Quality White Hickory Pick Handles.....	20c.
No. 1—Good Quality White and Red Hickory Pick Handles.....	18c.
No. 2—Mixed White and Red Hickory Pick Handles.....	15c.

### HOLLOW BACK SHOVELS.—Carbon Steel.

No.	Each.
242 Corry—Long Handle, Round Point Shovels, Size No. 2.....	50c.
222 Corry—Long Handle, Square Point Shovels, Size No. 2.....	50c.
212 Corry—D Handle, Square Point Shovels, Size No. 2.....	50c.
213 Corry—D Handle, Square Point Shovels, Size No. 3.....	55c.
214 Corry—D Handle, Square Point Shovels, Size No. 4.....	60c.
215 Corry—D Handle, Square Point Shovels, Size No. 5.....	65c.
216 Corry—D Handle, Square Point Shovels, Size No. 6.....	70c.

### HOLLOW BACK SCOOPS.

No.	Each.
263 Corry—D Handle, Eastern Pattern or Coal Scoop, Size No. 3.....	60c.
264 Corry—D Handle, Eastern Pattern or Coal Scoop, Size No. 4.....	65c.
265 Corry—D Handle, Eastern Pattern or Coal Scoop, Size No. 5.....	70c.
266 Corry—D Handle, Eastern Pattern or Coal Scoop, Size No. 6.....	75c.
274 Corry—D Handle, Western Pattern or Grain Scoop, Size No. 4.....	75c.
276 Corry—D Handle, Western Pattern or Grain Scoop, Size No. 6.....	85c.
278 Corry—D Handle, Western Pattern or Grain Scoop, Size No. 8.....	95c.

Long Handle Scoops same price as D Handle.

### PLAIN BACK SPADES.

No. 552 Penn—D Handle Spades, Size No. 2.....	Each, 90c.
No. 554 Penn—Long Handle Spades, Size No. 2.....	" 90c.
No. 752 Corry—D Handle Spades, Size No. 2.....	" 65c.
No. 754 Corry—Long Handle Spades, Size No. 2.....	" 65c.

### HOLLOW BACK SPADES.

No. 252 Corry—D Handle Spades, Size No. 2.....	Each, 50c.
No. 254 Corry—Long Handle Spades, Size No. 2.....	" 50c.

Always order Shovels and Spades by List Number.

### AXES.

In Axes we carry the best lines only. We aim to sell only those we know to be first-class in every respect and that have an established reputation.

	Retail price.
G. & T. Celebrated Axes.....	Each, 75c.
Marshall Bros.' Superior Steel Axes.....	" 65c.
Betty's Hatchets, Half Pattern and No. 2 Shingling.....	" 60c.

### AXE HANDLES.

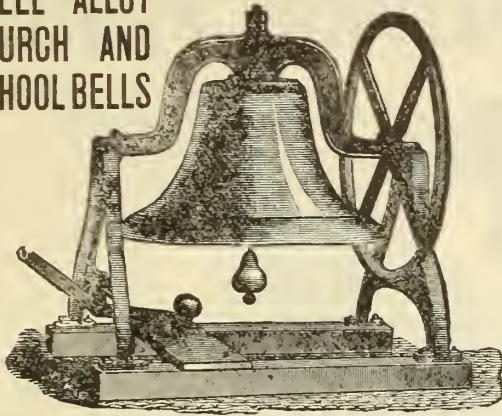
No. X—Extra Selected 2d Growth, all White Hickory Axe handles.....	each, 25c.
No. 1—Selected White Hickory Axe Handles.....	each, 20c.
No. 2—White and Red Hickory Axe Handles.....	each, 15c.
No. 3—White and Red Hickory Axe Handles.....	each, 12c.







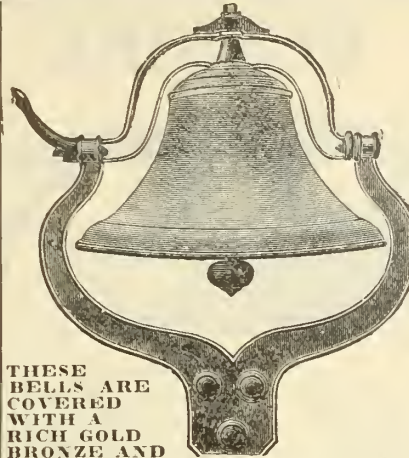
## STEEL ALLOY CHURCH AND SCHOOL BELLS



These Bells are cast from an alloy of cast steel and crystal metal, and can be relied on under all circumstances and in all seasons.

No.	Diameter.	Weight. (MOUNTED.)	List Price.	Retail Price.
22.....	22-inch.	122 pounds.	175 pounds.	\$20.00
24.....	24-inch.	153 pounds.	225 pounds.	25.00

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.



THESE BELLS ARE COVERED WITH A RICH GOLD BRONZE AND THE HANGINGS WITH GOOD VARNISH.

## CRYSTAL METAL FARM BELLS.

No.	Weight. Complete.	Diameter of Bell.
No. 1.....	40 lbs.	15
No. 2.....	50 lbs.	17
No. 3.....	75 lbs.	19
No. 4.....	100 lbs.	21

Prices, including hangings complete :

No.	List Price, Bronzed.	Retail Price, Bronzed.
No. 1...	\$4.00	\$1.80
No. 2...	5.00	2.25
No. 3...	7.50	3.38
No. 4...	10.00	4.50

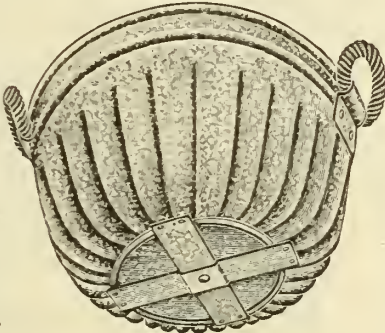
## GALVANIZED STEEL BASKETS.

WITH RE-ENFORCED OR DOUBLE STEEL BOTTOMS.

Bushel—A 101.....	\$1.00
PLAIN BOTTOMS.	
Bushel .....	.80c.
Half-bushel .....	.65c.

### UTILITY STEEL BASKETS.

JAPANESE DRY MEASURE.  
With Bail and Side Handles—  
Half-bushel..... 50c.  
With Patented Clips and Drop Handles.  
Half-bushel, 45c. Bushel, 60c. 1½ bushels, 75c.



### OAK BASKETS.

1 bushel, with rim, 65c.
1¼ bushels, with rim, 75c.
1½ bushels, with rim, 90c.

## CEDAR AND OAK MEASURES.

¼ peck, cedar, wire hoops.....	\$0.35
¼ peck, cedar, second quality flat hoops.....	.25
½ and ¼ peck, cedar, combined, wire hoops.....	.40
½ and ¼ peck, cedar, combined, second quality flat hoops.....	.30
Peck and ½ peck, cedar, combined, wire hoops.....	.50
Peck and ½ peck, cedar, second quality flat hoops.....	.40
½ bushel, cedar, wire hoops.....	.75
½ bushel, cedar, second quality flat hoops.....	.50
½ bushel, oak, iron cross-bar.....	1.25

## OHIO BUTCHERING DERRICK.

Saves Wood, Water, Extra Help and Vexation.

One man without any help can swing the largest hog and do all his own slaughtering.

### DESCRIPTION.

From the pulley to the ground, 9 ft.; length of derrick, 9 ft. 6 in.; track, 6 ft. 9 in. from the ground; braces, 6 ft. 6 in. wide at the bottom. Each derrick furnished with 4 gammon sticks, 4 pulleys, 4 head hooks, 20 feet manila rope, malleable iron stayrings, a windlass of easy sweep.

It is thoroughly well braced with proper cast-iron supports to the crane. Weight, 150 pounds. Price \$12.00.



## THE NEW CONNECTICUT MEAT CUTTER.

CHOPS AND PULVERIZES ALL KINDS OF TABLE FOOD.

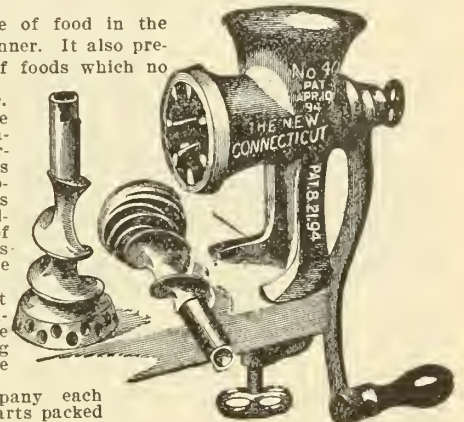
Cuts every article of food in the most acceptable manner. It also prepares a long list of foods which no other meat or food chopper can utilize.

Makes that fine table luxury, "Peanut Butter" to perfection. Prepares coconut and chocolate for cakes, pies and puddings. Pulverizes all kinds of nuts. Reduces figs and dates to paste for layer cake, etc.

Does it all without removing the machine from the table by simply inserting the devices to do the work required.

Directions accompany each machine with its parts packed in a cardboard box.

No. 40—Weight, 4¾ pounds (packed six in a case), will chop two pounds of meat per minute.....	Each, \$1.25
No. 60—Weight, 8 pounds (packed six in a case), will chop three pounds of meat per minute.....	Each, 1.50
No. 10—Capacity, about three pounds per minute.....	\$2.00



## CORN BARRELS.

Without handles.....	\$4.50
With handles.....	5.00

## STEEL HOG SCALDER AND FEED COOKER

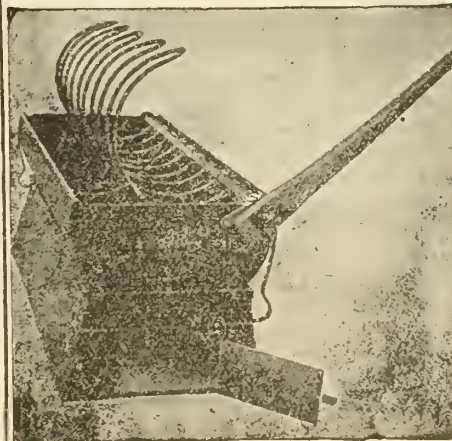
Plain Scaldler, with legs, 30x18 in. x 6 ft., Retail \$12.00, List \$16.00.

Fire-box, as shown, Retail \$10.00, List \$13.00.

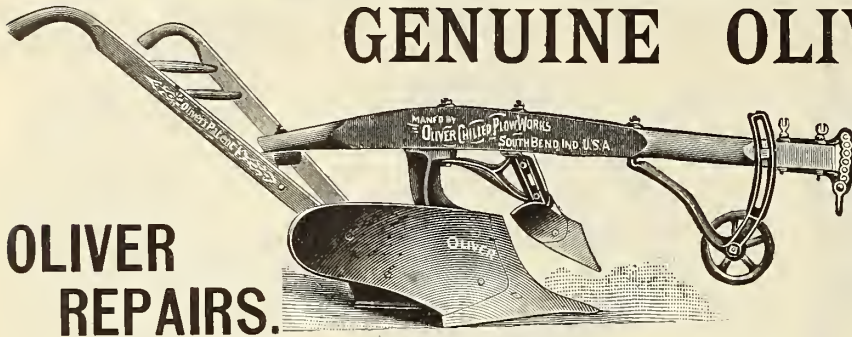
Rack (net) Retail \$10.00, List \$13.00.

Table can be built out of wood on the place.

Plain Scaldler does very well if placed over a ditch and fire built underneath, but large dealers prefer Rack and Fire-Box complete.



## GENUINE OLIVER PLOWS.



### OLIVER REPAIRS.

Note.—A Clevis, Wrench and an extra share are included in prices for Plows fitted with Cast Shares, but wheels and jointers are not.

#### PLOWS—PRICES.

No. A-1 and A-2, Right-Hand only.....	\$4.50
WOOD BEAM—RIGHT AND LEFT HAND.	
" B, Right Hand only.....	6.00
" B Vineyard, Right Hand only.....	7.50
" 10-0 .....	7.00
" 13 .....	8.00
" 19 .....	8.50
" 29 .....	9.00
" E 1.....	9.50
" 40 .....	9.50
No. 40 XX.....	10.50
" 22, Chilled, Iron Beam, Right and Left Hand.....	11.00
" 3 X, Chilled, Iron Beam, Right Hand only.....	9.50

#### OLIVER COMBINATION PLOWS.

WOOD BEAM—RIGHT AND LEFT HAND.	
No. 120—All Chilled.....	\$9.50
" 140—All Chilled.....	10.00

#### OLIVER SPECIAL PLOWS.

No. 1—Road and Grading Plow, all steel, with Standing Coultter and Gauge Iron or Wheel.....	\$30.00
The Oliver Subsoiler, best of its kind, with Wheel.....	14.00

#### OLIVER HILLSIDE PLOWS.

Made with steel and chilled mouldboard and cast point, and is well equipped in all respects for first-class work.

In addition to its excellent qualities as a hillside Plow, it also works admirably in level ground, and having been thoroughly tried, we do not hesitate to recommend it highly

No. 52, Steel Mouldboard, Cast Share, Wood Beam, One Horse.....	\$10.00
No. 53½, Chilled Mouldboard, Cast Share, Two Horse.....	9.50
No. 57, Steel Mouldboard, Cast Share, Wood Beam, Two Horse.....	12.00
No. 58, Chilled Mouldboard, Cast Share, Iron Beam, Two Horse.....	9.00

#### 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. 12—Chilled, for one-horse plows.....	\$1.50
No. 140—Chilled, for Nos. 120, 125 and 140 plows.....	2.00
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.....	.50

Note.—In ordering, say whether for wood or steel beam, right or left hand plows.

#### COMBINATION PLOW REPAIRS.

Numbers.	Mould-board, Lugs.	Handles.	Mould-board and Landside Braces.	Shins.	Levers.	Springs.	Landside Plates.
98.....	20c.	20c.	40c.	.....	20c.	5c.	5c.
99.....	20c.	20c.	40c.	.....	20c.	5c.	5c.
119.....	20c.	20c.	40c.	20c.	20c.	5c.	.....
120.....	20c.	20c.	40c.	20c.	20c.	5c.	.....
140.....	20c.	20c.	40c.	20c.	20c.	5c.	.....
3X.....	20c.	20c.	.....	.....	.....	.....	.....

#### HILLSIDE PLOW REPAIRS.

Plow Nos.	Chilled Mould-board.	Steel Mould-board.	Standards.	Landsides.	Cast Shares.	Set Handles.	Beams.	Clevises.	Wrenches.	Wheels.	Jointers.
52.....	.....	\$2.75	\$2.75	\$.65	\$.50	\$1.75	\$1.00	\$.20	\$.15	\$.75	.....
53½.....	\$3.00	.....	2.50	.75	.40	1.75	1.00	.35	.15	1.00	.....
57.....	3.00	4.00	3.25	.75	.50	2.00	1.00	.35	.15	1.00	\$2.00
58.....	2.00	.....	.....	.75	.50	1.25	4.00	.25	.15	1.00	.....

#### BOLTS.

For shares, mouldboards and landsides, jointer and coultter standard No. 5, end of handle brace, each..... 3c.

For jointer and coultter holder, No. 6, wheel standards (straight or hook), 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..... 5c.

Long handle round bolts..... 7c.

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, 9-16x2¾, each..... 10c.

For standards and beams, 403, 404 and 405, wood beam..... 15c.

**Cast Washers Are Not Included in Prices for Bolts.**

#### MOULDBOARDS.

No. A-1 and A-2.....	\$1.25	No. 40 XX.....	\$3.50
B and B. Vin. 1.75.....	" E.....	" 3 X.....	3.00
10-0.....	2.00	" 98.....	2.75
13 and 13 Vin. 2.25.....	" 99.....	" 119.....	2.50
19.....	2.50	" 120.....	2.75
20.....	2.75	" 140.....	3.00
22.....	3.00		
40.....	3.00		

#### LANDSIDES.

No. A.....	\$.40	No. 40 and 40 XX.....	\$.75
B and B. Vin. .60.....	E.....		.75
10-0.....	.60		.98
13 and 13 Vin. .65.....	98.....		.75
19.....	.75	119.....	.75
20.....	.75	120.....	.75
22.....	.75	140.....	.75
3 X.....	.75		

#### HANDLE BRACES.

No. A.....	25c.
" B-10-13-13 Vineyard, B. Vin. 30c.	
All other Handle Braces.....	50c.

#### BEAMS.

No. A-B-B Vineyard and 10.....	\$1.00
No. 40 XX.....	1.50
All other numbers, Wood.....	1.25
No. 22, Iron.....	4.25

#### CLEAVES.

Marked "A," for One-Horse Plows.....	\$.20
Marked "B," for Two-Horse Plows.....	.30
Marked "D," for Three-Horse Plows.....	.50
Shackles, Twisted.....	.15
Wrenches.....	.05
Guide Pins.....	.03
Shackle Pins.....	.03
Links, Two-Horse.....	.05
Rings, One-Horse.....	.05

#### ROLLING COULTERS.

We have Rolling Coulters to fit every kind of Oliver Plows upon which they may be required. See prices below.

11-inch, for one-horse plows, complete.....	\$2.50
13-inch, for two or three-horse plows, complete.....	3.00

#### HANGING COULTERS.

These are made to fit any of our Jointer Holders, and take the place of the jointer where their use is desired.

All numbers, complete two-horse, except 7-L and 60.....	\$2.00
All numbers, complete, one-horse.....	1.50
Holder, same as for jointers.....	1.00

#### WHEELS.

Straight standard, one-horse, complete.....	\$0.75
Brace, standard, two-horse, complete.....	1.00
Standards, one-horse, straight.....	.40
Standards, two-horse, all kinds.....	.50
Wheels only, one-horse.....	.40
Wheels only, two-horse.....	.50
Hubs.....	.10
Center pins or hub bolts.....	.05
Wheel caps or sand bands.....	.05

Note.—In ordering wheels, say if for right or left hand wood or steel beam plows.

All Polished Points each, add extra 10 cents.

Non-Reversible Shares and Slips same as Reversible.

Bowers' Slips same as other slips.

Where blank spaces occur parts are not made; hence prices are not given.

Other parts not enumerated, prices furnished on application.

Note.—A clevis and wrench are included in the foregoing prices, also an extra share is included in prices of all plows fitted with cast shares. Wheels and jointers are not included.

#### STANDARDS.

No. A.....	\$1.25	No. 40.....	\$2.50
B.....	1.50	" 40 XX.....	3.00
B. Vin. 2.00.....	" E.....	" 119.....	2.50
10-0.....	2.00	" 120.....	2.50
13.....	2.25	" 140.....	2.75
19.....	2.25		
20.....	2.25		

#### HANDLES.

Per Pair and Single.

All numbers, per pair, loose..... \$1.00

All numbers, single, each..... .50

Rounds, per pair..... .10

L. S. Handle Plates..... .10

Complete—Per Set.

No. A-B-10-0.....	\$1.25
" 22, complete, less rod.....	1.25
" 13, complete, less rod.....	1.50
" B Vineyard, less rod.....	2.00
" 98-99-119-120 and 140.....	1.85
" 113.....	1.60
" 19-20-E, 40 and 40 XX.....	1.75

#### SHARES.

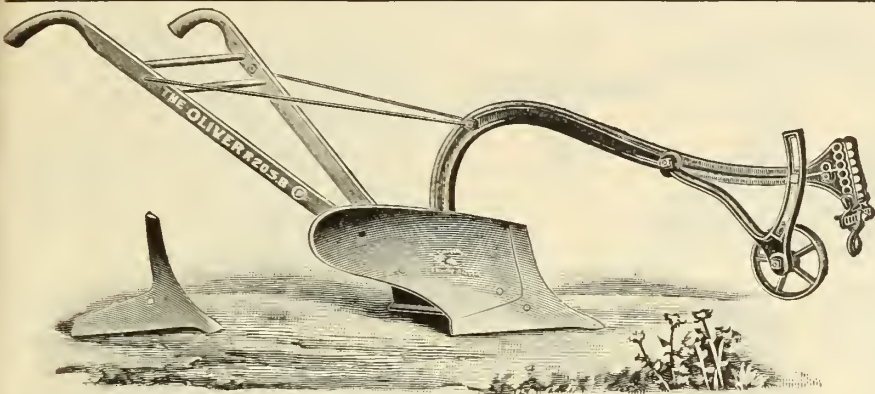
Numbers.	Solid Cutter Shares.		Solid Plain Shares.		Cutter Oliver Slip Nose Shares.		Plain Oliver Slip Nose Shares.		Cast Reversible Shares.		Cast Reversible Shares.	
	ots.	cts.	ots.	cts.	ots.	cts.	ots.	cts.	ots.	cts.	ots.	cts.
A.....	20	18	.....	25	.....	.....	.....	.....	.....	.....	.....	8
B.....	25	20	.....	25	.....	.....	.....	.....	.....	.....	.....	10
B Vin.....	25	20	.....	25	.....	.....	.....	.....	.....	.....	.....	10
10-O.....	25	.....	35	.....	.....	.....	.....	.....	.....	.....	.....	10
13.....	25	.....	35	.....	.....	.....	.....	.....	.....	.....	.....	10
19.....	30	.....	40	.....	.....	.....	.....	.....	.....	.....	.....	10
20.....	30	.....	40	.....	.....	.....	.....	.....	.....	.....	.....	10
22.....	40	35	.....	45	.....	.....	.....	.....	.....	.....	.....	10
3-X.....	30	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	10
40.....	30	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	10
40-XX.....	40	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	10
E.....	30	.....	45	.....	.....	.....	.....	.....	.....	.....	.....	10
98.....	55	40	.....	25	15	.....	.....	.....	.....	.....	.....	15
99.....	55	40	.....	25	15	.....	.....	.....	.....	.....	.....	15
119.....	45	.....	.....	32	22	.....	.....	.....	.....	.....	.....	22
120.....	45	.....	.....	32	22	.....	.....	.....	.....	.....	.....	22
140.....	45	.....	.....	32	22	.....	.....	.....	.....	.....	.....	22

All Polished Points, each, add extra 10 cents.

Non-Reversible Shares and Slips same as Reversible.

Bowers' Slips same as other slips.

## OLIVER STEEL BEAM PLOWS.



The Oliver Wood Beam Plow has long been recognized as one of the standards in farm machinery throughout this and foreign countries, but the fact being established that steel is supplanting wood in many places has reached the plow, and the old wood beam is now giving way to steel.

All of the strong features of the Oliver Wood Beam are incorporated in the **Steel Beam** plow. Light draft is one of its strong points. Scouring in all kinds of soils is another equally valuable requisite.

We cannot too highly recommend the Oliver Steel Beam Plow. It makes friends wherever sold.

	Price.	
No. B.....	\$7.00	} Shares, lands and moulds, same price as wood beam. Shares and moulds are interchangeable.
No. 10-0.....	8.00	
No. 13.....	9.00	
No. 19.....	9.50	
No. 20.....	10.00	
No. 40.....	10.50	

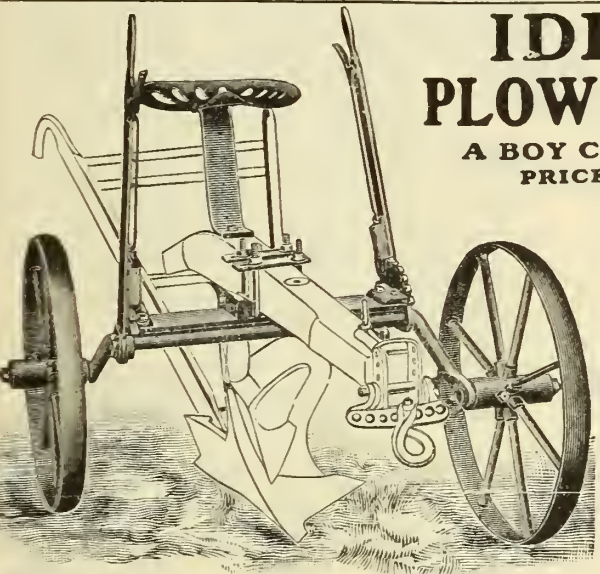
### Oliver Sulky Plow, No. 11.

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 tongue. Depth easily regulated. Turns square corners without lifting out of ground. Made in both right and left hand. No. 11 Sulky Plow, fitted with No. 40 bottom, tongue, neck yoke, three-horse evener, jointer and weed hook..... \$47.00  
 If fitted with Rolling Coultter instead of jointer, add to price..... 1.00  
 For special four-horse evener, add..... 2.00  
 With all bottoms fitted with cast shares an extra share is included in price.



### IDEAL PLOW SULKY.

A BOY CAN USE IT.  
PRICE \$12.00.



We illustrate the **Ideal Plow Sulky**, which may be attached to any make of plow in 10 minutes' time, thus converting the ordinary plow into a sulky plow.

The wheels are steel with malleable iron hubs, and have renewable boxes and spindles. The axles are two in number, and are made of steel, passing through the entire length of the main frame, thus making it doubly strong and well able to withstand any strain that may be brought to bear upon it.

This machine has been tested in all kinds and conditions of soil, and have found that it possessed all the qualities of the best sulky plow made. It will keep the plow running regularly in the hardest kind of ground without the assistance of the operator.

This sulky is made for either a right or left hand plow, and a trial is all that is necessary to convince the most exacting as to its merits.

### OLIVER DISC PLOW.

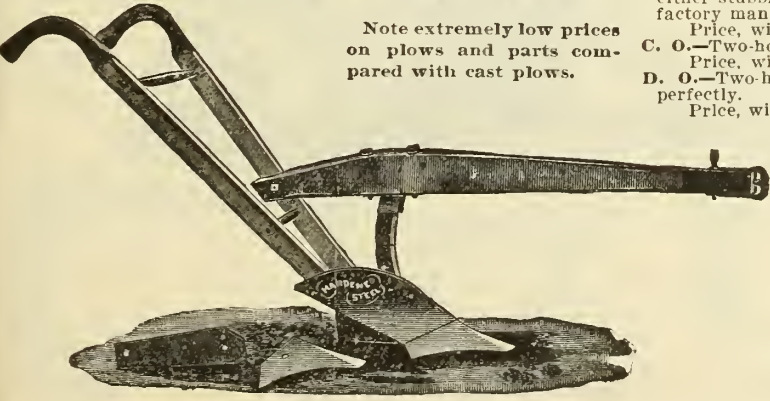
The fact that this plow is made by the Oliver Chilled Plow Company is a guarantee that it is first-class in every respect.

Price..... \$45.00

- PONY**—Light one-horse, 7-inch cut, wood beam. Very popular.  
 Price, with extra steel point..... \$2.50
- A. O.**—One-horse, 8-inch cut, wood beam.  
 Price, with extra steel point..... \$2.85
- B. O.**—One-horse or light two-horse, 9-inch 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..... \$3.25
- C. O.**—Two-horse, 10-inch cut, wood beam.  
 Price, with extra steel point..... \$4.25
- D. O.**—Two-horse, 11-inch cut, wood beam. It turns its furrow slice perfectly.  
 Price, with extra steel point..... \$5.00

### Climax Steel Plows.

Note extremely low prices on plows and parts compared with cast plows.

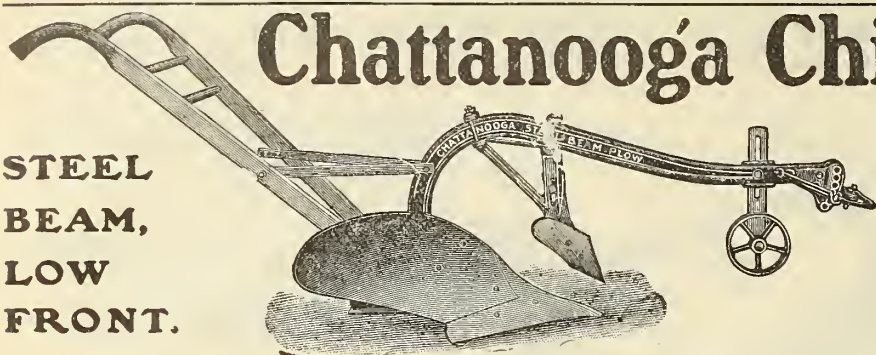


	CLIMAX EXTRAS.	Points.	Lands.	Moulds.	Handles	
					Beams per pair with less bolts.	Wood beam Cleviss.
Pony .....	\$0.26	\$0.15	\$0.35	\$0.75	\$0.56	\$0.15
A. O. ....	.35	.17	.45	.75	.56	.15
B. O. ....	.45	.17	.60	.90	.56	.18
C. O. ....	.50	.25	.70	1.50	.70	.30
D. O. ....	.70	.25	.85	1.50	.70	.30

These plows take a much higher degree of earth polish than is ordinarily found in cast plows that are not chilled, and consequently will scour in an ordinary clay soil. They are all made with steel standard and cap, superior land-side and adjustable slip heel, and will do superior work in all cotton and corn lands.

# Chattanooga Chilled Plows.

**STEEL  
BEAM,  
LOW  
FRONT.**



Cut represents the two and three horse plow.

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 falls; gives satisfaction.

## Prices, Chattanooga Plows and Extras.

Nos.	Capacity.	Wt. lbs.	Price.	Shares Plath.	Shares Cutter.	Shares Slip Nose.	Slips.	Landsides.	Mouldboards.	Steel Beams.	Wood Beams.	Steel Beam Handles per set.	Standards.
62 One-Horse Wood Beam.....	5x9	55	\$ 4.00	....	....	....	....	....	....	....	1.00	....	....
62 One-Horse Steel Beam.....	5x9	70	5.00	.20	.25	.08	.40	1.50	2.00	....	....	1.50	1.25
72 One-Horse Steel Beam, only.....	6x9	70	5.50	....	.22	.30	.08	.40	1.50	2.00	....	1.50	1.25
63 Very light Two-Horse, Steel Beam, only.....	8x10	100	8.00	....	.25	.35	.10	.60	2.00	2.50	....	1.50	2.00
64 Light, Two-Horse, Steel Beam, only.....	9x11	120	9.00	....	.30	.40	.10	.75	2.50	3.00	....	2.00	2.50
65 Medium, Two-Horse, Steel Beam, only.....	10x12	185	10.00	....	.30	.40	.10	.75	2.75	3.00	....	2.00	2.50
66 Heavy, Two-Horse, Steel Beam, only.....	12x14	150	11.00	....	.30	.40	.10	.80	3.00	3.50	....	2.00	2.75

Rolling Coulters, complete, \$3.00; Wheels complete, \$1.00; Jointers, complete, \$2.00; Bolts for Shares, Landsides and Moulds, 3c.; Rear Beam Bolts on One-Horse Plows, 5c. All other Beam Bolts, 10c.

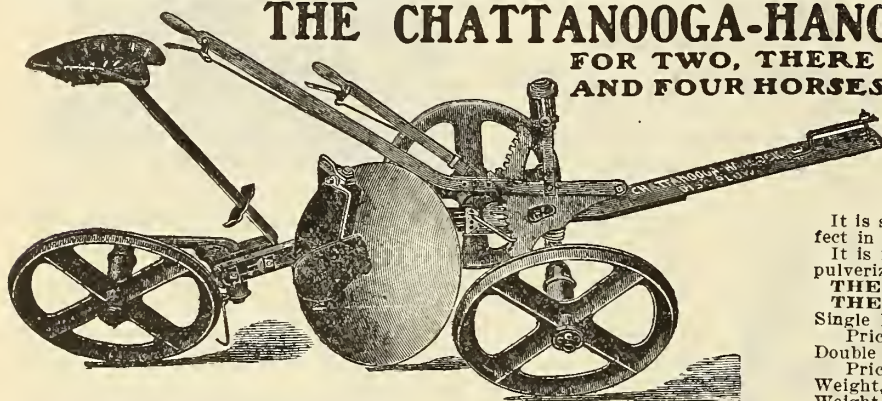
## CHATTANOOGA ONE-HORSE PLOWS.

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.....\$4.00  
No. 62—Steel Beam..... 5.00  
No. 72—Steel Beam..... 5.50

# THE CHATTANOOGA-HANCOCK DISC PLOWS, FOR TWO, THREE AND FOUR HORSES.



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.

**THE FIRST CUT SHOWS THE SINGLE DISC. THE SECOND, THE DOUBLE DISC.**  
Single Disc, with double and triple trees.

Price..... \$40.00  
Double Disc, double and triple trees.  
Price..... 56.50  
Weight, single disc.....600 pounds.  
Weight, double disc.....725 pounds.

They are made on the same frame and act on the same principle, and what is said about the single disc pertains to the other. 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, and when plowing can be done.

Full directions come with each plow, so simple that any farmer with ordinary intelligence need have no trouble.

## Disc Plow Extras.

In ordering extras always be sure to give name or number, or send the piece to be duplicated or a correct drawing. Attention to this seemingly small matter will avoid delay.

Double Disc attachment for single disc plow.....	\$16.50
Nos. 1 and 2 discs.....	\$3.00
Scraper blade.....	.50
Scraper, complete.....	1.00
No. D 116 scraper standard.....	.50
No. D 119 scraper arm.....	.50
No. D 132 L. H. lever, complete.....	1.50
No. D 142 R. H. lever, complete.....	1.50
No. D 134 R. H. lever, complete.....	1.50
Disc bolt, with nut.....	.25
No. D 113 disc holt nut.....	.10

### PRICES.

Disc box holt.....	Each. .10
No. D 101 disc box.....	1.50
No. D 102 disc holder or journal.....	1.50
No. D 143 tongue bracket, 1901 style.....	1.00
No. D 144 R. H. quadrant, 1901 style.....	1.00
No. D 130 huh washer, outside.....	.10
No. D 127 wedge.....	.25
No. D 137 malleable wrench.....	.15
No. D 138 malleable wrench.....	.25
Other extras not named on this list can be furnished on application. Do not keep them in stock.	

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

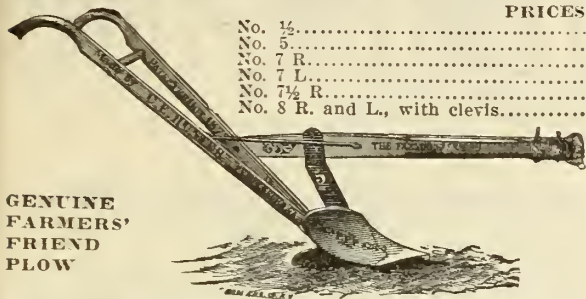
## Minor & Horton High Standard Plows.

(No. 18.....\$2.50. No. 19.....\$3.00 } Plain Casting  
 (No. 18½..... 2.75. No. 19½..... 4.00 } 5c. per pound.

### PRICES OF GENUINE FARMERS' FRIEND PLOW.

No. ½.....\$2.50	No. 8 R. and L. with rod.....\$6.00
No. 5.....2.50	No. 9 R. and L.....6.00
No. 7 R.....4.00	No. 1 Hill Side.....3.75
No. 7 L.....4.50	No. 2 Hill Side.....5.00
No. 7½ R.....5.50	No. 3 Hill Side.....5.25
No. 8 R. and L. with clevis.....5.50	

**GENUINE FARMERS' FRIEND PLOW**



### "BOY" DIXIE PLOW.

"Boy" Dixie.....\$2.25
No. X.....2.40
No. I.....2.50
No. II.....4.00

### GIRL CHAMPION.

Casting per lb. 5c.	
No. "Girl".....\$3.25	
No. A.....3.50	
No. AA.....3.75	

Castings by Weight.

## The Hampton Cast Plows.

### Hampton No. 1 C or Jersey and Attachments.

With every Hampton No. 1 C. Plow is sent three extra moulds and one extra share and wrench, as follows:

No. 1 B. Fig. 3 in cut—A regular one-horse mouldboard used on all regular No. 1 plows. Cabbage. Fig. 2 in cut, smaller than No. 1 B—Particularly adapted to the second cultivation of all crops.

Truck. Fig. 1 in cut—A small mouldboard suitable for the early cultivation of all truck.

All of above are included in the price. \$4.00

#### EXTRAS.

Fig. 7 in cut—Cutter or sod land point. \$0.50  
 Fig. 5 in cut—Potato-digging attachment .80  
 Fig. 6—Double mould. 2.25

#### HAMPTON BOY.

Price, with truck and mouldboard, wrench and point.....\$2.50

#### HAMPTON NO. 1 REGULAR.

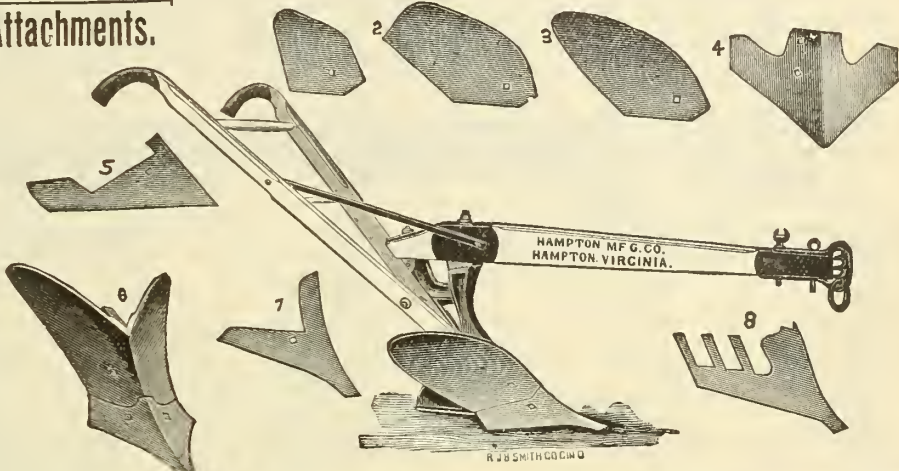
This style is similar to the Boy, but larger. Attachments are: Truck mouldboard, point and wrench. Price, complete.....\$3.00

#### HAMPTON NO. 5.

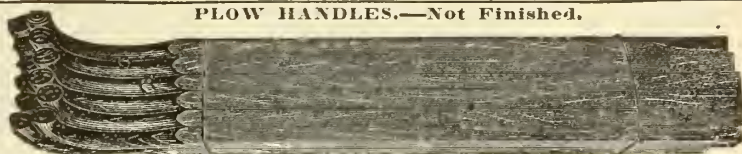
This is a medium two-horse plow, very light draft, and scours thoroughly. Front wheel and jointers furnished when desired extra.

Price, plain plow.....\$5.75

Liberal discount to the trade.  
 Casting on all Hampton Plows....5c. per lb.



### PLOW HANDLES.—Not Finished.



### FOR CAST PLOWS

1¼x2 inches, 5 feet long, per pair.....25c.	1¼x2¼ inches, 7 feet long, per pair.....45c.
1¼x2¼ inches, 5½ feet long, per pair.....30c.	1½x2½ inches, 5 feet long, per pair.....45c.
1¼x2¼ inches, 5½ feet long, per pair.....35c.	1½x2½ inches, 5½ feet long, per pair.....50c.
1¼x2¼ inches, 6 feet long, per pair.....40c.	

#### No. 3485.

2 in. beam; 5½ in. extreme length; 3 in. from center of wrench to end of beam. Patent wrench.

For use on "Boy" Dixie and similar cast plows.

Price.....15c.



#### No. 3490.

2 in. beam; 6½ in. extreme length; 3¾ in. from center of wrench to end of beam. Patent wrench.

For use on Southern cast plows.

Price.....15c.

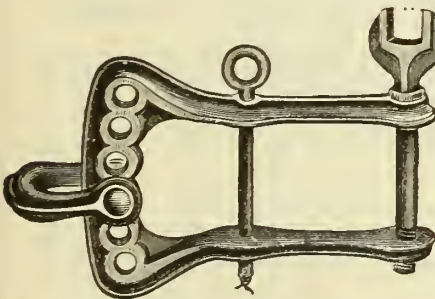


#### No. 3500.

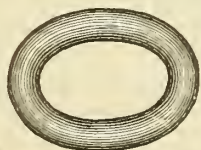
2 in. beam; 5¾ in. extreme length; 3 in. from center of wrench to end of beam. Patent wrench.

For use on Girl Champion and similar cast plows.

Price.....15c.



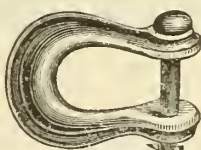
### MALLEABLE PLOW LINKS.



#### No. 3645.

3 in. long, 2½ in. wide. Price.....5c.

### END CLEVIS, OR SHACKLE.



#### No. 3355 B.

¾ in. inside measure; 3 in. extreme length. Price.....10c.

#### No. 3515 A.

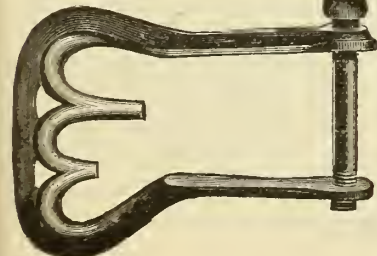
2 in. beam; 3¾ in. from center of wrench to center of pin; 6¾ in. extreme length. For use on Hampton Boy and Hampton No. 1 Plows. 20c.

#### No. 3525 A.

2¼ in. beam; 2¾ in. from center of wrench to center of pin; 6¾ in. extreme length; 6 holes; shackle and pin. For use on No. 5 F. F. and similar cast plows. Price.....20c.

#### No. 3525 F.

2½ in. beam; 3¾ in. from center of wrench to center of pin; 7½ in. extreme length; 6 holes; shackle and pin. For use on No. 7 F. F. and similar cast plows. Price.....25c.



## REPAIRS FOR ROLAND CHILLED PLOWS

No. on slip nose.	Number.	Mould boards.	Bowlers' slip nose shares.	Slip nose.	Land sides.	Solid shares.	Cutter.	Standard.	Malleable standard for jointer.	Malleable socket for jointer.	Chilled mould board for jointer.	Share for jointer.	Malleable clamp for jointer.	Shifter iron.	Handle plate.	Stretcher.	Pair handles complete.	One handle finished.	Beam finished.	Clevis and loop.	Wheel standard.	Wheel.	Wheel axle.
E	E 4 and E 3	\$3.00	\$0.50	\$0.10	\$0.75	\$0.40	\$0.25	\$2.50	\$0.75	\$1.00	\$0.40	\$0.20	\$0.25	\$0.40	\$0.10	\$0.15	\$1.75	\$0.50	\$1.25	\$0.40	\$0.50	\$0.50	\$0.25
E	43	3.00	.50	.10	.75	.40	.25	2.50	.75	1.00	.40	.20	.25	.40	.10	.15	1.75	.50	1.25	.40	.50	.50	.25
E	23	2.75	.50	.10	.75	.40	.25	2.50	.75	1.00	.40	.20	.25	.40	.10	.15	1.75	.50	1.25	.40	.50	.50	.25
C	C 3	2.50	.50	.10	.75	.35	.25	2.50	.75	1.00	.40	.20	.25	.40	.10	.15	1.75	.50	1.25	.40	.50	.50	.25
C	D 3 and D 4	2.50	.50	.10	.75	.35	.25	2.50	.75	1.00	.40	.20	.25	.40	.10	.15	1.75	.50	1.25	.40	.50	.50	.25
A	13 and 13 A	2.00	.45	.10	.65	.35	.20	2.00															
X	B 3	1.00	.40	.10	.60	.25		1.50															
X	A 3	1.00	.40	.10	.40			1.50															

### Repairs for Wiard Plows.

Nos.	Kind.	No. Horse.	Price.		
			Shares.	Lands.	Moulds.
62	R. H. Only	1 Horse	\$0.25	\$0.25	\$0.50
13	"	1	.35	.50	1.50
10	"	1	.35	.50	1.75
19	"	2	.40	.75	2.75
16	"	2	.35	.75	2.75
18	"	2	.40	.75	3.50
26	"	2 or 3 Horse	.40	.75	3.50
26 1/2	"	2 Horse	.40	.75	3.00
27	L. H.	"	.40	.75	3.00
28	"	"	.40	.75	3.50
116	Hillside	"	.50		3.00
126	"	"	.50		2.50
130	"	"	.50		2.25

Single handles for No. 62, 35c. each.  
 All other numbers, single handles, 50c. each, one horse.  
 Single handles for all 2 or 3 horse plows, fitted, 60c. each.  
 Handles per set, all 2 or 3 horse plows, complete, per set, \$1.50.  
 For all one horse plows, complete, per set \$1.30.

### Repairs for South Bend Plows.

Nos.	Shares.	No. Horse.	Shares.	Lands.	Moulds.	Handles in sets complete.	Standards.	Wood Beams.	Shins.
13	"	1	.30	.40	1.75	1.25	1.50	.75	....
10	"	2	.35	.75	3.00	1.25	2.25	.90	\$0.20
19	"	2	.35	.75	3.00	1.25	2.50	.90	.20
16	"	2	.35	.75	3.00	1.25	2.50	1.00	.20
18	"	2	.35	1.00	3.00	1.50	2.75	1.25	.25
26	"	2	.40	1.00	3.25	1.50	2.75	1.25	.25
26 1/2	"	2	.40	1.00	3.50	1.50	3.00	1.25	.25
27	Slip	2	.40	1.00	3.50	1.50	3.00	1.25	.25
28	"	2	.45						....
116	"	2	.45						....
126	"	2	.50						....
130	"	2	.50						....

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.						Shins.	Slip shares.	Slip points.
	Shares.	Lands.	Moulds.	Beams.	Standards.	Shins.			
44	R. H. only	1 Horse	\$0.20	\$0.35	\$1.25	\$1.00	\$1.25		
50	"	"	.20	.45	1.35	1.35	1.75		
51	"	"	.20	.45	1.75	1.35	1.75		
52	"	"	.30	.55	2.25	1.50	2.00		
53	"	1 or 2 Horse	.30	.55	2.50	1.50	2.00	\$0.30	\$0.40
54	"	"	.35	.65	2.75	1.75	2.25	.30	.45
55	"	"	.35	.70	2.75	1.75	2.25	.30	.45
56	"	"	.40	.75	3.00	1.75	2.50	.35	.50
57	"	"	.40	.85	3.00	1.75	2.50	.35	.50
95	L. H.	2 or 3 Horse	.35	.70	2.75	1.75	2.25	.30	.45
96	"	2 Horse	.40	.75	3.00	1.75	2.50	.35	.50
97	"	"	.40	.85	3.00	1.75	2.50	.35	.50
99	"	2 or 3 Horse	.40	.85	3.00	1.75	2.50	.35	.50
501	"	"	.40	.75	3.00	1.75	2.25		.50
502	"	"	.40	.75	3.00	1.75	2.25		.50
503	"	"	.35	.70	2.75	1.75	2.25		.45
601	R. H. only	"	.40	.85	3.00	1.75	2.50		.50
602	"	"	.40	.75	3.00	1.75	2.25		.50
603	"	"	.35	.70	2.75	1.75	2.25		.45

For Heavy Shares add each 5c. Jointers, complete, chilled, \$2.00.  
 Wheel, complete, \$1.00. Handles, one horse, all Nos. single, 45c.; pair, \$1.00.  
 2 and 3 horse, all other Nos., single, 55c.; pair, including rounds, \$1.25.  
 For price Rolling Coulters, see Oliver Plow pages.

### EXTRAS FOR IRON BEAM SYRACUSE PLOWS.

Nos.			Common shares.	Cutter shares.	Cast Lands.	Moulds, chilled.	Beams.	Slip shares.	Slip points.
2-78	"	"	.35	.45	.65	3.00	4.00	.45	.10
1-78	"	"	.40	.50	.65	3.00	4.00	.50	.10
10-78	"	"	.40	.50	.80	3.50	4.50	.50	.10
20-78	L. H.	"	.35	.45	.65	3.00	4.00	.45	.10
30-78	"	"	.40	.50	.80	3.50	4.50	.50	.10

### EXTRAS FOR STEEL BEAM SYRACUSE PLOWS.

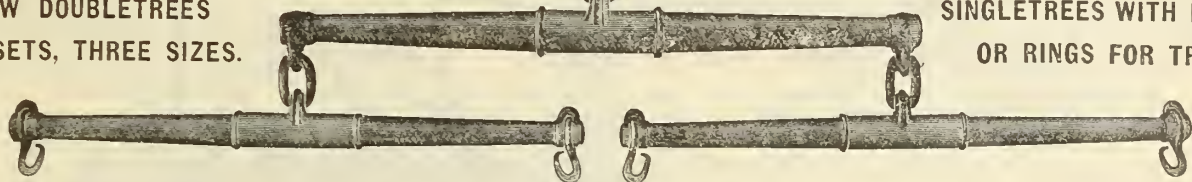
Nos.			Common shares.	Cutter shares.	Cast lands.	Chilled moulds.	Beams.	Standards.	Slip shares.	Slip points.
15	"	"	.40	.50	.65	3.00	3.50	2.75	.50	.10
21	"	"	.40	.50	1.00	3.50	4.00	3.00	.50	.10
25	L. H.	2 or 3 Horse	.40	.50	.90	3.00	3.50	2.75	.50	.10
35	"	3 Horse	.40	.50	1.00	3.50	4.00	3.00	.50	.10

Jointers, complete, chilled, \$2.00. Wheels, complete, \$1.00. For Heavy Shares, add 5c. each.  
 Jointer Points for any of above Syracuse Plows, 20c. Syracuse Base Bolts, 3c.

## The Everlasting Tubular Steel Doubletrees. Pattern No. 105.

**PLOW DOUBLETREES**  
IN SETS, THREE SIZES.

**SINGLETREES WITH HOOKS**  
OR RINGS FOR TRACES.



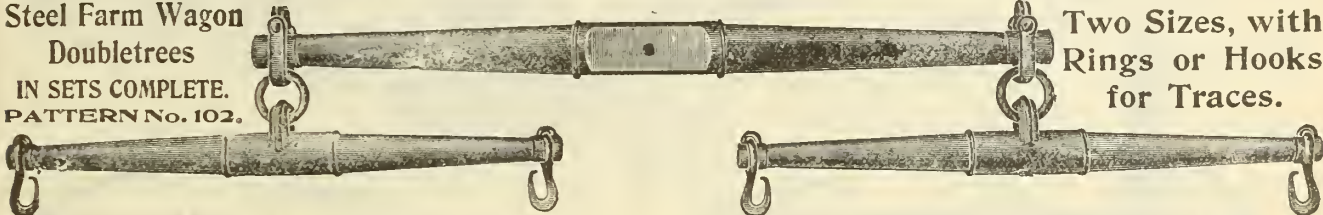
No. 0—For light plowing in moss soil, length 33 inches and 28 inches, factory list, dozen sets..... **\$36.00**  
Our special price, per set..... **\$3.00**  
No. 1—For regular plowing in clay soil, length 36 inches and 30 inches, factory list, dozen sets..... **\$39.00**  
Our special price, per set..... **\$3.25**

No. 2—For extra heavy plowing, street making, etc., length 36 to 38 inches and 30 to 32 inches, factory list, dozen sets.... **\$51.00**  
Our special price, per set..... **\$4.25**  
**SINGLETREES FOR ABOVE, PAT. No. 107.**  
24 inches, factory list, dozen, **\$8.00.** Our special price, **67c.** each.

26 inches, factory list, dozen, **\$8.40.** Our special price, **70c.** each.  
28 inches, factory list, dozen, **\$8.70.** Our special price, **73c.** each.  
30 inches, factory list, dozen, **\$10.00.** Our special price, **\$1c.** each.  
32 inches, factory list, dozen, **\$14.20.** Our special price, **\$1.20** each.

**Steel Farm Wagon Doubletrees**  
IN SETS COMPLETE.  
PATTERN No. 102.

**Two Sizes, with Rings or Hooks for Traces.**



No. 2, capacity 4000 pounds; evener, 46 to 48 inches; Singletrees, 33 to 34 inches, factory list, dozen sets, **\$63.00.** Our special price, per set, **\$5.25.**  
No. 3, capacity 7000 pounds; evener, 43 to 45 inches; Singletrees, 34 to 37 inches, factory list, dozen sets, **\$72.00.** Our special price, per set, **\$6.00.**  
**SINGLETREES FOR ABOVE, PATTERN No. 104.—THREE SIZES.**

No. 1—33 inches, capacity 1500 pounds, factory list, **\$15.00.** Our special price, **\$1.25** each.  
No. 2—34 inches, capacity 2000 pounds, factory list, **\$15.60.** Our special price, **\$1.35** each.  
No. 3—36 inches, capacity 4000 pounds, factory list, **\$20.00.** Our special price, **\$1.67** each.



### U SINGLE AND DOUBLETREES

The lightest and strongest steel trees on the market. Hook is so constructed that the trace will not unhook when in use. 24 in., **40c.** 26 in. **50c.** 28 in. **60c.** 36 in. double **\$1.00.**

**STEEL FARM WAGON NECK YOKES.**  
Pattern No. 103.  
No. 1—38 inches, fac. list, **\$15.00**  
Our special price, **\$1.25**

No. 2—40 inches, fac. list, **\$20.50**  
Our special price, **\$1.70**  
**SPECIAL DISCOUNT FOR CASH ON ALL THE ABOVE TUBULAR GOODS.**

### Sets of Welded Clips.

**Clips for Doubletrees.** Set. Doz. Sets.  
Our No. 26, Fac. No. 77—Southern, one ½ inch Center Clip and Hook, welded, with ½ inch hook and two ½ inch End Clips, welded, as used on our 36 inch Southern Doubletrees. List, \$3.30..... **.25 \$2.50**  
Our No. 36 and 40, Fac. No. 76—Pennsylvania, one ¾ inch Center Clip and Hook, welded with ¾ inch hook and two 9-16 inch End Clips, welded, as used on our 36 and 40 inch Heavy Pennsylvania Doubletrees. List, \$5.30..... **.35 3.50**  
**Clips for Singletrees.** Set. Doz. Sets.  
Our No. 26, Fac. No. 75—One Center ½ inch Clip, welded, and two ¾ inch End Clips, welded, with 5-16 inch hooks, as used on our 28 inch Singletrees. List, \$2.10..... **.15 \$1.25**  
Our No. 30, Fac. No. 74—One Center 9-16 inch Clip, welded, and two 7-16 inch End Clips, welded, with ¾ inch hooks, as used on our 30 and 32 inch Heavy Singletrees. List, \$3.00..... **.20 2.00**  
Our No. 34, Fac. No. 73—One Center ¾ inch Clip, welded, and two 7-16 inch End Clips, welded, with ¾ inch hooks, as used on our 34 and 36 inch Heavy Singletrees. List, \$3.20..... **.25 2.25**

**Wood Neck Yoke,**  
No. 6, IRONED COMPLETE,  
Price 75c.

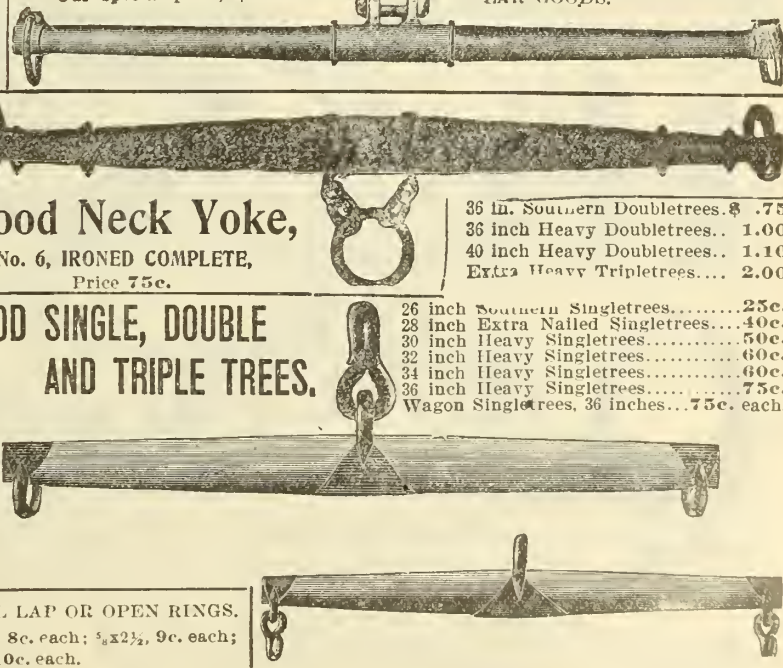
36 in. Southern Doubletrees. **\$.75**  
36 inch Heavy Doubletrees. **1.00**  
40 inch Heavy Doubletrees. **1.10**  
Extra Heavy Tripletrees. **2.00**

**WOOD SINGLE, DOUBLE AND TRIPLE TREES.**

26 inch Southern Singletrees..... **25c.**  
28 inch Extra Nailed Singletrees.... **40c.**  
30 inch Heavy Singletrees..... **50c.**  
32 inch Heavy Singletrees..... **60c.**  
34 inch Heavy Singletrees..... **60c.**  
36 inch Heavy Singletrees..... **75c.**  
Wagon Singletrees, 36 inches... **75c.** each.

**CHAIN REPAIR LINKS.**  
10-2, **15c.** dozen; 10-1, **20c.** dozen.  
**SIDE OPEN LAP LINKS.**  
½x2½, **8c.** each; ¾x2½, **9c.** each; ¾x3, **10c.** each.

**OVAL LAP OR OPEN RINGS.**  
½x2½, **8c.** each; ¾x2½, **9c.** each;  
¾x3, **10c.** each.



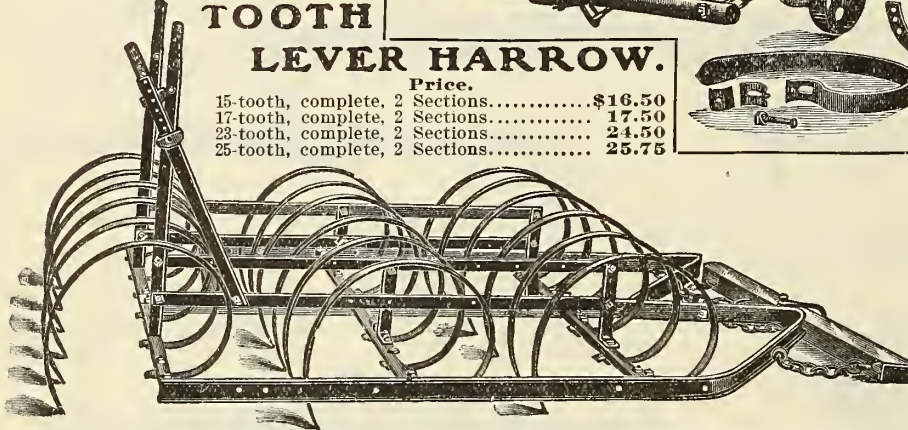
# Hench & Dromgold's Improved Walking or Riding Spring Tooth Lever Harrow, on Wheels.

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. It is pivoted in the center, and can be uncoupled in a moment without the use of bolts or split keys, and can then be used as a one-horse harrow, which makes it quite convenient, either half being adjusted with perfect ease.



**Special Discount for Cash.**  
 15-tooth harrow, without seat. \$18.00  
 17-tooth harrow, without seat. 19.00  
 19-tooth harrow, without seat. 20.00  
 21-tooth harrow, without seat. 21.00  
 (If seat is wanted price will be \$1.25 extra.)

## SLED RUNNER SPRING TOOTH LEVER HARROW.



**Price.**  
 15-tooth, complete, 2 Sections.....\$16.50  
 17-tooth, complete, 2 Sections..... 17.50  
 23-tooth, complete, 2 Sections..... 24.50  
 25-tooth, complete, 2 Sections..... 25.75

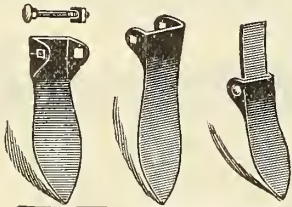
The runner form of frame allows the harrow to run steadily and smoothly, and permits the teeth always to work at a uniform depth. Removable steel shoes are bolted to the underside of all frame bars, and can be replaced at a trifling cost. The tooth bars are 1 1/4 inches high; steel flat bar. No holes in tooth, a patented tooth clip being used, making it impossible for tooth to slip. Every tooth adjusts individually.

## Spring Harrow Teeth,

**For all Leading Harrows.**  
 Price..40c. each.  
 When taken in full sets a special price.

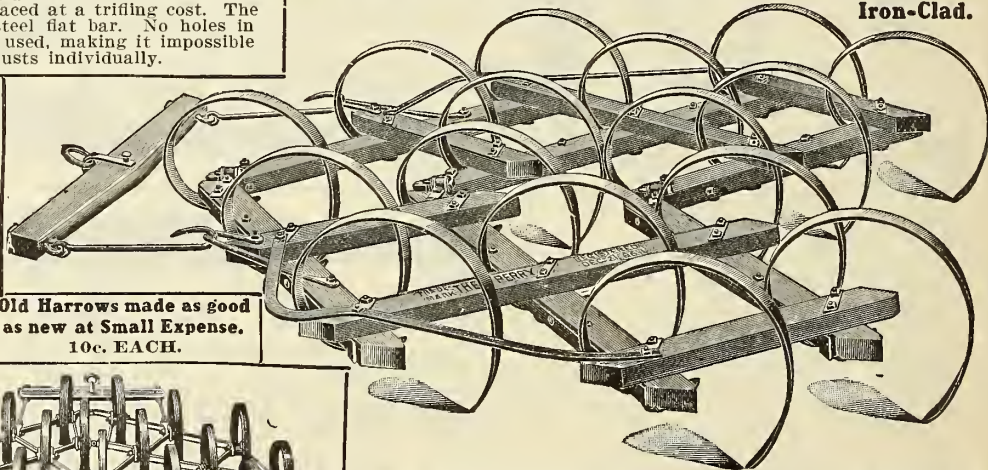


## SUPPLEMENTARY ADJUSTABLE HARROW TOOTH POINTS.



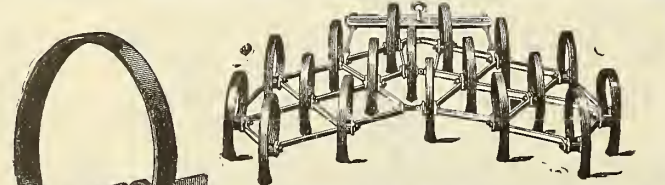
Old Harrows made as good as new at Small Expense. 10c. EACH.

## Wood Frame, Spring Tooth Harrow. Iron-Clad.



This is without doubt one of the best float harrows on the market. It is particularly desirable in cloddy ground, as it combines a clod-crusher and spring-tooth Harrow, the frame being iron-plated underneath and in front, so that it crushes the clods at the same time the teeth stir up the ground, and the frame prevents it sinking too deep. Bolt heads fully protected. Teeth cannot get loose.

16-tooth Harrows.....\$10.00      20-tooth Harrows.....\$11.50  
 18-tooth Harrows..... 10.75      22-tooth Harrows..... 12.25  
**Special Discount for Cash.**  
**WOOD FRAMES ONLY, WITH REGULAR LINING, BUT WITHOUT TEETH.**  
 16-tooth Frames.....\$6.00      20-tooth Frames.....\$7.00  
 18-tooth Frames..... 6.50      22-tooth Frames..... 7.50



## Hench & Dromgold's All Steel Frame, Spring Tooth Harrow.

In the Ratchet Tool Holder, as shown in the cut, the tooth is securely clamped between two malleable ratchet clips, which engage with the ratchet frame clip, and is held firmly and securely by one bolt to each tooth, on which it rotates as on a pivot. By this arrangement, if the teeth are worn off or cut off as much as 15 inches, they can be set to run as deep as when new. It is so hinged that either side can be raised straight up or at right angles, for passing stumps or trees.

**SPECIAL DISCOUNT FOR CASH.**  
 14-Tooth Harrow..... \$12.00  
 16-Tooth Harrow..... 13.00  
 18-Tooth Harrow..... 14.00  
 20-Tooth Harrow..... 15.00  
 22-Tooth Harrow..... 16.00



## DAISY CULTIVATOR.



THE cut represents the DAISY CULTIVATOR, with handles for use similar to the DAISY ON WHEELS. This Cultivator has the same ratchet holder as will be found on all of this make of Harrows. It is built with 6 or 8 teeth, but can be used with 5, 6, 7 or 8 teeth, as desired. By simply unbolting the two outside teeth of the 6-tooth Cultivator it can be used with 4 teeth, and by taking out the middle tooth on the right-hand side and setting the rear tooth in the center it makes a 5-tooth Cultivator.

### RETAIL PRICE.

Price of 6-Tooth Cultivator, with wheel.....	\$5.50
Price of 8-Tooth Cultivator, with wheel.....	6.50
Price of 10-Tooth Cultivator, with wheel.....	7.50
Price of 12-Tooth Cultivator, with wheel.....	10.50



Per pound.....

## SPIKE HARROW TEETH

## Daisy Cultivator on Wheels.



THIS style of Cultivator is precisely the same as either half of the regular Spring Tooth Wheel Harrow, with the addition of handles. It is an admirable implement for use with one horse in working crops in rows. 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, causing it to draw straight. The wheels guide it and cause it to run steady, and each tooth will cut its own way. For turning at the ends the teeth can be raised by the use of the lever, and is very easy to operate. The frame is made of "I" Beam steel; the rollers or bars are also of steel, the castings being malleable, and the best steel used in our teeth make it one of the most durable and complete Cultivators or small Harrows ever offered to the public. We solicit your patronage.

### RETAIL PRICE.

7-Tooth.....	\$9.50	10-Tooth.....	\$11.00
8-Tooth.....	10.00	11-Tooth.....	11.50
9-Tooth.....	10.50		

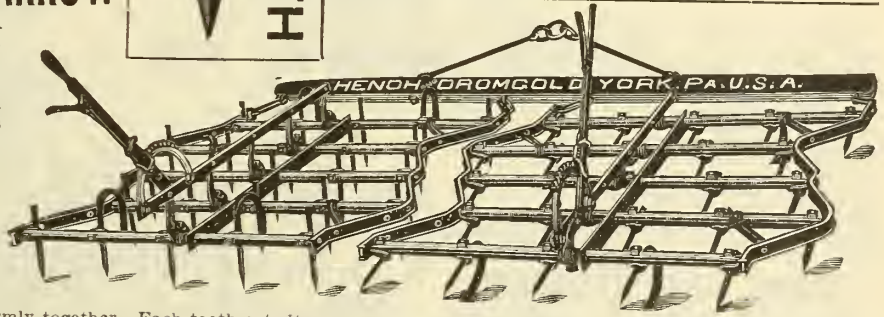
Special Discount for Cash.

## ADJUSTABLE SPIKE TOOTH LEVER HARROW

50-tooth, 2 sections, \$11.50. 60-tooth, 2 sections, \$12.75. 75-tooth, 3 sections, \$17.25. 90-tooth, 3 sections, \$19.00.

### Special Discount for Cash.

This Harrow has a frame of I beam steel, bars of "U"-shaped steel, well braced and securely fastened at each end to the frame. This gives the Harrow a double advantage, strength and rigidity, and as a guard against catching into trees and stumps. The teeth are of diamond-shape steel. The runners are formed by the curved tooth extension, which are placed so that the Harrow will free itself from trash better and will carry the Harrow more even distance from the ground than any other Harrow on the market. The teeth are held firmly by a welded eye steel bolt through the clip malleable to roller bar, also the end teeth on the roller bars, which locks and holds the frame firmly together. Each tooth cuts its own course, and can be raised or lowered as desired, and with the lever the teeth can be set to any pitch or cut desired.

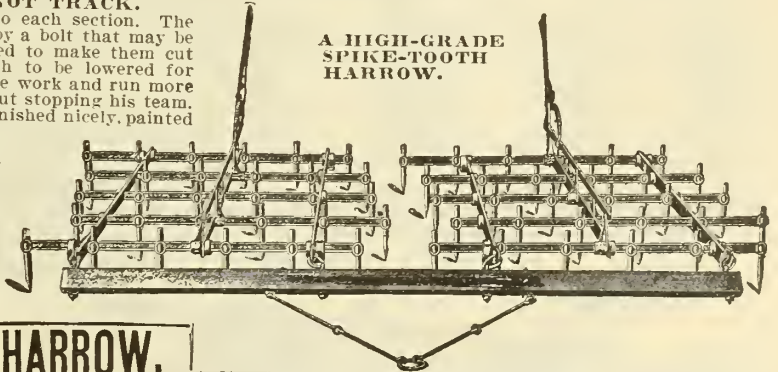


## STEEL "U" BAR LEVER HARROW.

### SO ARRANGED THAT THE TEETH CANNOT TRACK.

This is a "U" Bar Steel Harrow, with five "U" bars to each section. The teeth are so fastened by a malleable tooth-holder secured by a bolt that may be easily removed for sharpening, or so they may be adjusted to make them cut deep or shallow, as desired. The levers permit the teeth to be lowered for smoothing or set forward at an angle to make them do more work and run more steadily, and also allow the operator to unload trash without stopping his team. It is strong and durable; made of high-carbon steel. It is finished nicely, painted and varnished. The heads of the teeth are swedged to prevent losing them, which makes a much more economical and satisfactory Harrow for the farmer to own and the dealer to sell.

### A HIGH-GRADE SPIKE-TOOTH HARROW.



This is a two-section, wood frame, spiked-tooth Harrow. The runners, as seen in the cut, are intended to be used in carrying the Harrow from one field to another.

### PRICE.

40-Tooth.....	\$8.50
18-Tooth.....	10.00

Special Discount for Cash.

### GARDENER'S HARROW.

This Harrow is similar to the Baltimore Double Hinge Harrow, only it is made in one section instead of two. It is designed to be used by one horse. We furnish this Harrow with 30 teeth, which cuts 4 feet 6 inches wide, and with 24 teeth, cutting 3 feet 8 inches wide.

### PRICE.

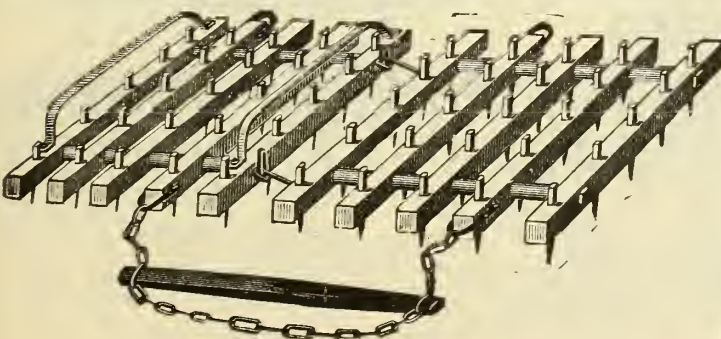
With 25 teeth.....	\$5.00	With 30 teeth.....	\$5.50
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Also furnish the old-style A and Double A Harrows at the following prices:

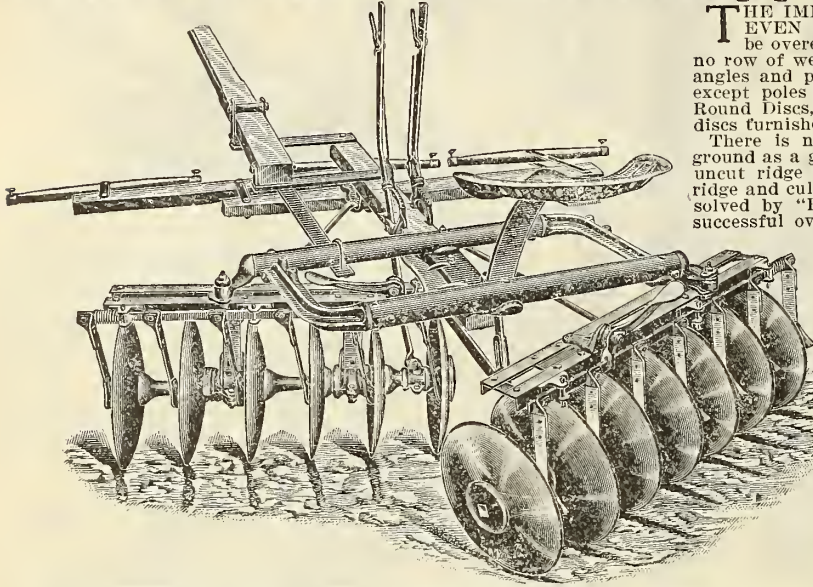
Single "A," with 20 3/4-inch teeth.....	\$7.00
Double "A," with 26 3/4-inch teeth.....	12.50
Double "A," with 30 3/4-inch teeth.....	13.50

Special Discount for Cash.

## BALTIMORE DOUBLE HINGE HARROW.



**Bell's Center-Cut Overlapping Disc Harrow.**



**T**HE IMPORTANCE OF THIS SURE CULTIVATION TO AN EVEN DEPTH and leaving no ground uncultivated cannot be overestimated. There will be no hard ridge. There will be no row of weeds between the grain. This Harrow is made of steel angles and platform and high test steel discs. No wood about it except poles and hitch. Harrows will always be furnished with Round Discs, unless especially ordered otherwise. Polygon or cut discs furnished at small extra cost when specially ordered.

There is no farming tool that covers and cultivates so much ground as a good disc harrow, but they are all so made that a little uncut ridge of ground is left in the center. How to reach that ridge and cultivate an even surface has been the problem. It is now solved by "BELL'S CENTER CUT." This is the first and only successful overlapping center-cut disc harrow. This harrow cultivates the ridge and pulverizes the ground from outside to outside, leaving a smooth surface behind it. Farmers who broadcast seed or grain will have no other machine after once trying this center-cutting harrow.

**Price Includes Steel-Frame Neck Yoke and 3-Horse Eveners.**

DISC.	INCHES.	PRICE.
9	16	\$25.00
11	16	28.50
13	16	28.00
15	16	31.00

**Special Discount for Cash.**

**Oriole Disc Harrow**

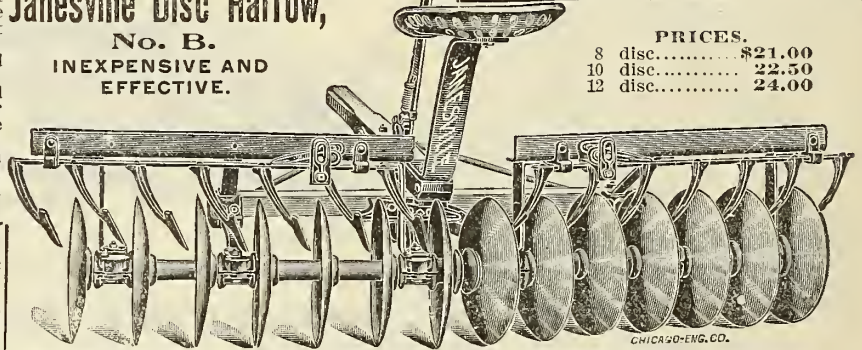
Will throw the dirt either to or from the center. This we carry in the 10-disc size only, and is similar in appearance to the JANESVILLE.

**PRICE.**

10-16 inch Discs..... \$25.00  
**Special Discount for Cash.**

**Janesville Disc Harrow,**

**No. B.  
 INEXPENSIVE AND  
 EFFECTIVE.**



**PRICES.**

8 disc.....	\$21.00
10 disc.....	22.50
12 disc.....	24.00

CHICAGO-ENG. CO.

An angle steel bar runs the full length of the gang and is fastened to the top of the standards. This takes the place of weight boxes.

The cleaner bar and cleaners are attached to this bar. The standards are steel.

The inner and outer draft boxes are oiled from the top of the standards, the center box from the bottom. The oil boxes are fitted with spring covers.

The Janesville Disc Harrows are made in six sizes, viz., six, seven and eight feet wide. They are furnished with either 16 or 18-inch discs. **Special Discount for Cash.**

**DRUID DISC HARROW.**

One of the best heavy, strong regular disc harrows on the market.

**PRICES.**

No. 00	8 disc.....	\$22.50
" 0	10 disc.....	24.00
" 1	12 disc.....	25.50

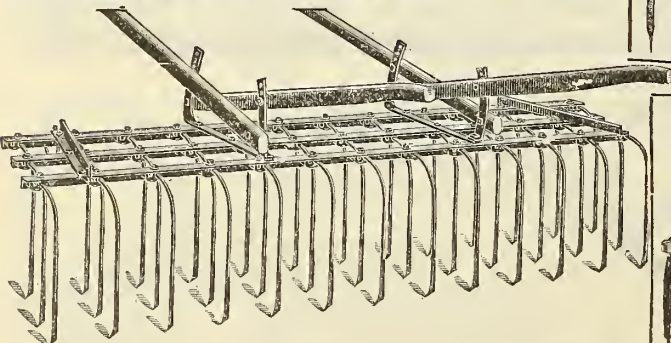
**HALLOCK WEEDER AND CULTIVATOR.**

The frame is of angle iron. Each tooth is bolted on separately. The handles and shafts are adjustable. The teeth are six inches apart on each frame, and so arranged that a six-inch space shows diagonally across. This allows butts of cornstalks and trash to pass through.

Removing one tooth a four-inch space is given over the row. Removal of two teeth will give a six-inch space. It works also four, six and eight rows.

**Write for Prices.**

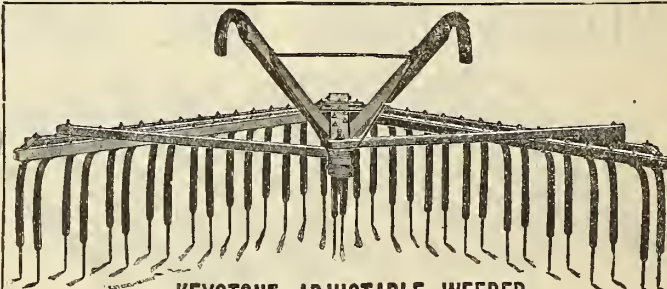
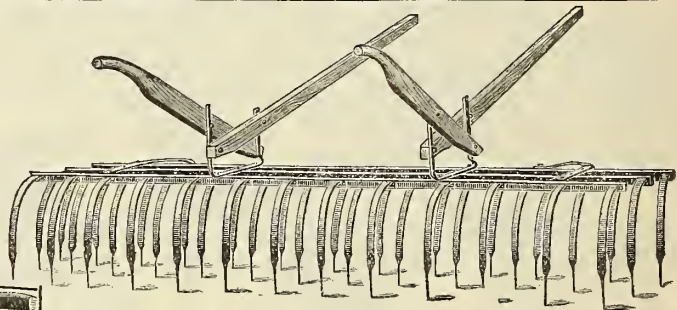
**STANDARD WEEDERS. Price \$8.00.**



**THE FRAME** is made of angle steel bars, with sufficient stay and tie bars to insure proper alignment.

**THE TEETH** are specially constructed and oil-tempered, having the correct shape to give them proper elasticity. The teeth are spaced so that it is impossible to gather trash or clog, and are quickly leveled by a raising and lowering device.

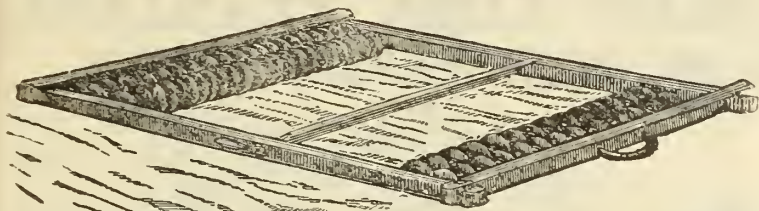
**PATENTED TOOTH CLIP** positively prevents the teeth from coming loose.



**KEYSTONE ADJUSTABLE WEEDER.**

Can be adjusted from 7½ feet, as per cut, down to 30 inches, for the purpose of cultivating between rows. Flat teeth, with diamond points. Furnished with caster wheel in front, not shown in cut.

**Write for Special Prices.**



## The Meeker Smoothing Harrow

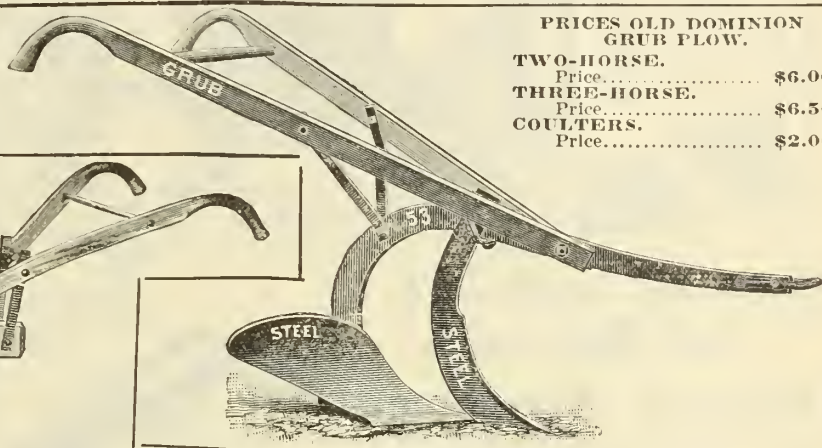
STEEL DISC.  
A PERFECT HARROW AND A PERFECT LAND ROLLER COMBINED.

The frame measures 6 feet 8 inches by 6 feet, and has 4 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, levelling and leaving the land fine and smooth and doing its work far better than the rake. Price.....\$20.00

Special Discount for Cash.

## Old Dominion Grub Plow.

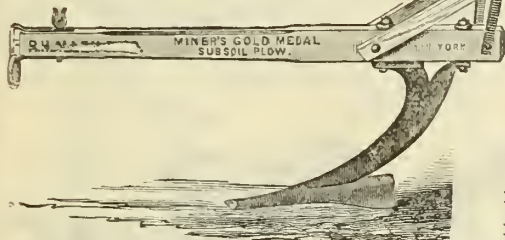
It is peculiarly adapted to newly cleared ground that is encumbered with growth of hazel or other bushes. All wearing parts are of best steel, and it is so strongly built that it will withstand the hardest usage. It is the favorite plow of its class. It is built in right hand only, and cuts about 7 inches. If you ever have a demand for a new ground plow, you should try this one.



PRICES OLD DOMINION GRUB PLOW.

TWO-HORSE.	
Price.....	\$6.00
THREE-HORSE.	
Price.....	\$6.50
COULTERS.	
Price.....	\$2.00

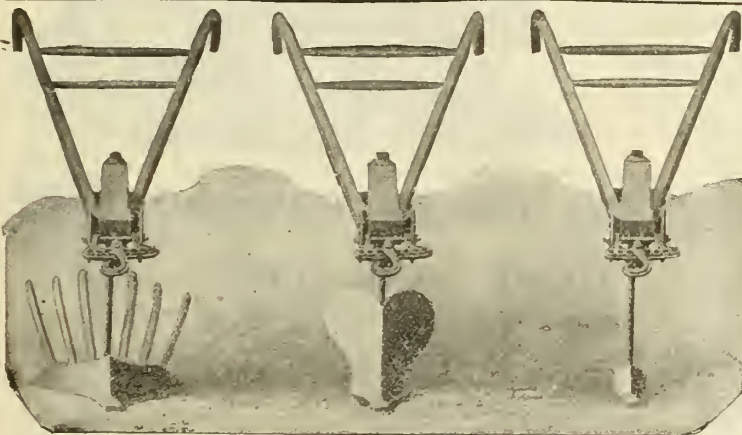
## Gold Medal Sub-Soil Plow.



The plow will reach a depth of 20 inches.

PRICES.

1 horse, with cast point, plain.....	\$5.00	1 horse cast share....	50c.	2 horse, with cast point, with wheel.....	\$8.50
1 horse, with cast point, with wheel.....	\$6.00	2 horse, with cast point, plain.....	\$7.50	2 horse cast share....	90c.



## Combination Potato Digger, Sub-soil Plow and Double Mouldboard Plow.

FOR TWO OR THREE HORSES.

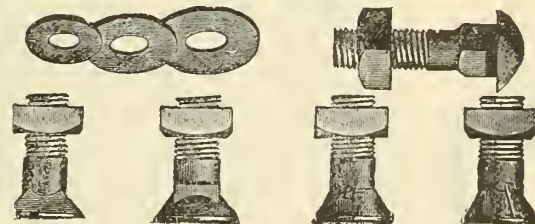
Each plow is in itself a perfect tool. The change from one plow to another can be made in a few minutes. The subsoil plow should always be used with a wheel.

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.

### OUR SPECIAL PRICES.

Subsoil Plow, plain.....	\$5.00
Subsoil Plow, with wheel.....	6.00
Double Mould for same.....	1.00
Potato Digging Attachment for same.....	2.00

## Plow, Machine and Carriage Bolts and Nuts.



BOLTS FOR CAST PLOWS, such as Minor & Horton, Farmers' Friend, Boy Dixie, Girl Champion.

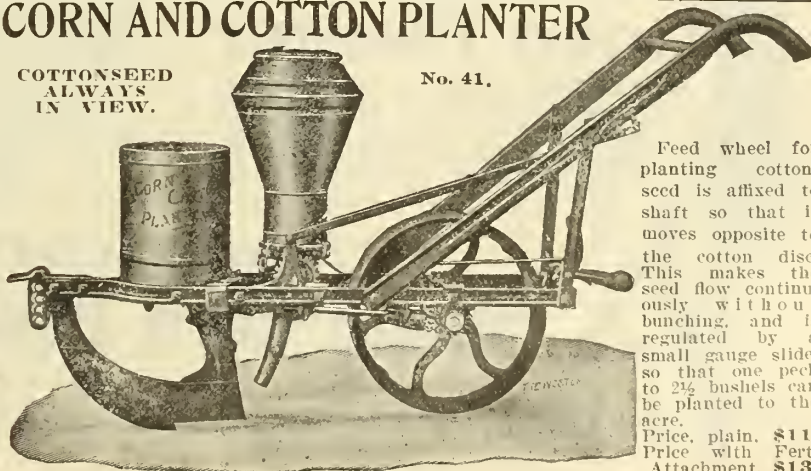
CHILLED PLOWS—South Bend, Wiard, Syracuse, Roland.

BASE BOLTS—Price, 2c. to 3c.

## CORN AND COTTON PLANTER

COTTONSEED ALWAYS IN VIEW.

No. 41.



Feed wheel for planting cottonseed is affixed to shaft so that it moves opposite to the cotton disc. This makes the seed flow continuously without bunching, and is regulated by a small gauge slide, so that one peck to 2 1/2 bushels can be planted to the acre. Price, plain, \$11. Price with Fert. Attachment, \$13.

**HENCH & DROMGOLD'S CORN PLANTERS.**

**STEEL FRAME SINGLE ROW PLANTER WITH FERTILIZER ATTACHMENT.**

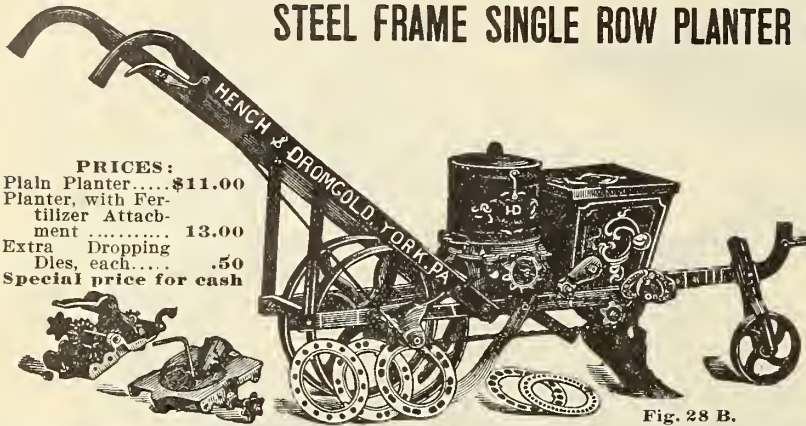


Fig. 28 B.

**PRICES:**  
 Plain Planter...\$11.00  
 Planter, with Fertilizer Attachment ..... 13.00  
 Extra Dropping Dies, each..... .50  
**Special price for cash**

The Corn-Dropping arrangement is very simple and positive in action.

The Fertilizer Sower has an agitator, which prevents the fertilizer from arching in the box, and will sow regularly any quantity from 100 to 400 pounds per acre.

Four Rings or Dropping Dies are furnished with each Planter; two with small and two with large holes, dropping one grain at a place and equal distance apart, and two with large and two with small holes for dropping two grains in a hill.

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 or any kind of seeds, and by using the different chain wheels can plant any desired amount.

**Showing Corn-Box in the Rear with Fertilizer Attachment.**

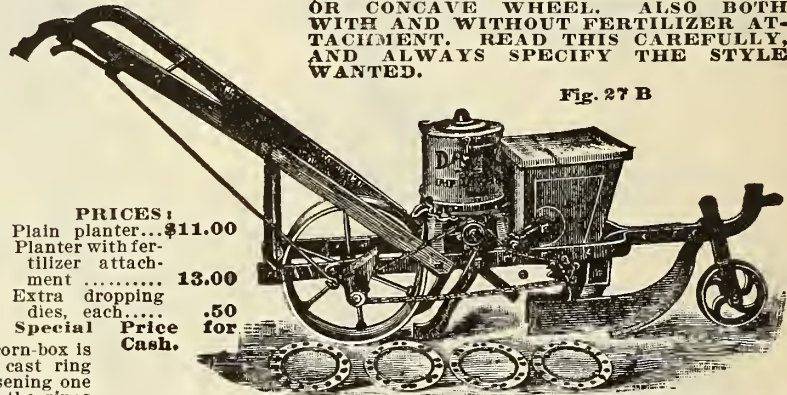
The cut represents our Single Row Corn Planter with corn-box in rear, and is sold largely in some sections.

It has the same dropping device and fertilizer feed as our other Planter. We furnish them with double or concave wheel. In some sections the concave wheel is preferable for rolling or pressing the ground down on the corn.

All the Planters we make 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. We, however, can furnish the brush block with any of the Planters if so ordered.

**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.**

Fig. 27 B



**PRICES:**  
 Plain planter...\$11.00  
 Planter with fertilizer attachment ..... 13.00  
 Extra dropping dies, each..... .50  
**Special Price for Cash.**

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; insures uniform distribution, whether dry or damp. 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.

**The Gordon 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.

**THE IRON STRIPPER** will not wear out or break. It prevents an overdose of corn, and will not crack a kernel. The entire dropping device is made of iron, held together by three bolts. All parts are easily accessible and readily adjusted.

**THE HOPPER IS IN LINE WITH THE CENTER.** There is a double-coil spring on each side, and the Planter hangs well in the hand. The material is all the best. The Planter is finished with a selected hardwood frame, finished bright, a brilliantly painted hopper and all parts varnished.

**PRICE, \$1.50.**

**PRICE \$1.50.**

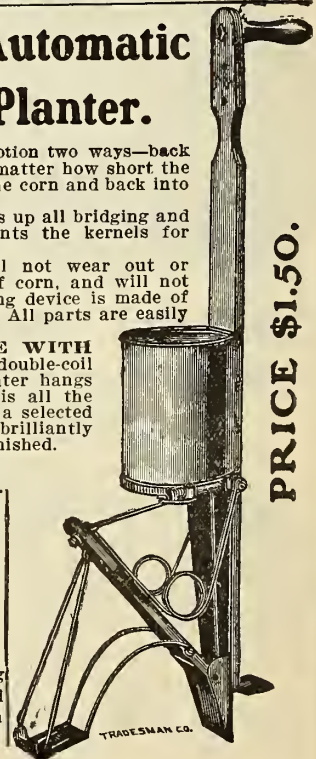
**The Leader Hand Corn Planter.**

Will plant seeds ranging in size from Pop Corn to large Kidney Beans, and never skips a hill. Has a sheet brass seed cut-off. Does not injure the grain. A Planter that is first-class in material, finish and workmanship, and built for wear. Price \$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 discs ever used in corn planters of any description. Price, \$1.75.



TRADESMAN CO.

Convertible from Hill Drop to Drill Drop.

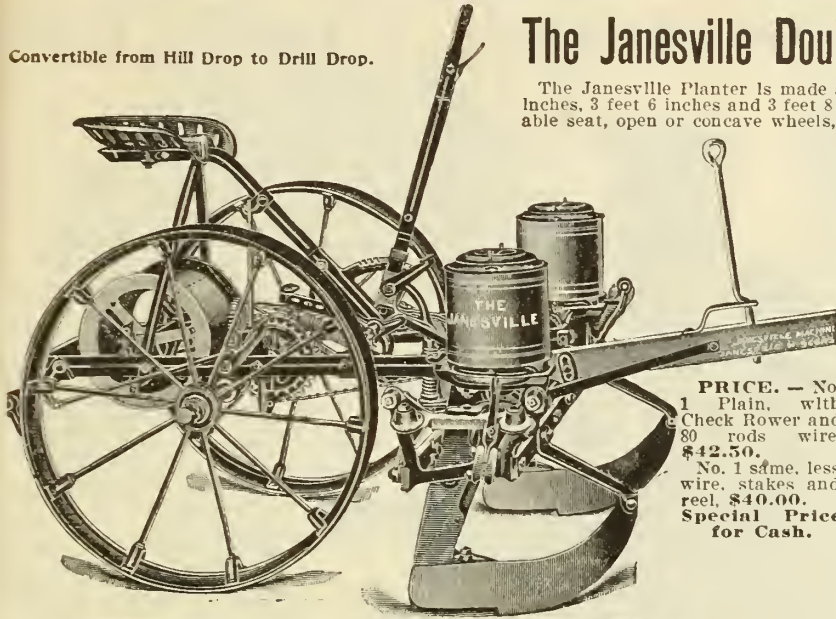
## The Janesville Double Row Corn Planter No. 1.

The Janesville Planter is made adjustable in width to the following sizes: 3 feet 4 inches, 3 feet 6 inches and 3 feet 8 inches. It has a strong frame, disc, marker, adjustable seat, open or concave wheels, plain or stub runners.

Seed Boxes are removable, and the plates may be changed without removing the corn. This also enables the operator to refill the seed-can by taking it to the grain sack instead of carrying the heavy sack to the machine, an **exclusive Janesville feature**. The time gear for driving the seed plants, together with the removable boxes, are so constructed that you cannot get the seed boxes on the wrong side, nor can you get the driving gear out of time. With our Convertible Drop (see Cut) we furnish with each planter both kinds of plates, so that by simply changing the seed plates you can have either the Edge Drop or Flat Drop. The Flat Drop gives much the best results with mixed seed, and it is sometimes not convenient to have selected seed corn.

Our Edge Drop is one of the best mechanical devices ever gotten up for the purpose, and operates as follows: The seed plate has cells in the outer edge, each of which is made to receive one kernel of corn edgewise. A revolving disc working on an eccentric over the seed plate insures the filling of these cells.

The cut-off will not crack the corn. The spring knocker drops in each cell and forces out the kernel. The seed plates are chain driven from a sprocket wheel on the main axle to a sprocket on the feed shaft. This obviates the side draft and relieves the wire strain.



**PRICE.** — No. 1 Plain, with Check Rower and 80 rods wire, \$42.50. No. 1 same, less wire, stakes and reel, \$40.00. **Special Price for Cash.**

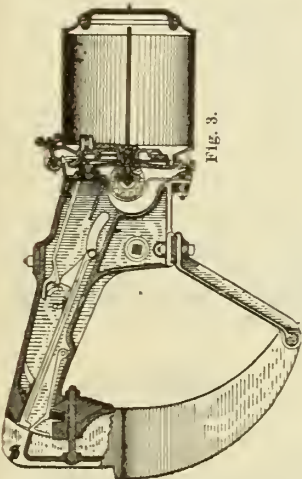


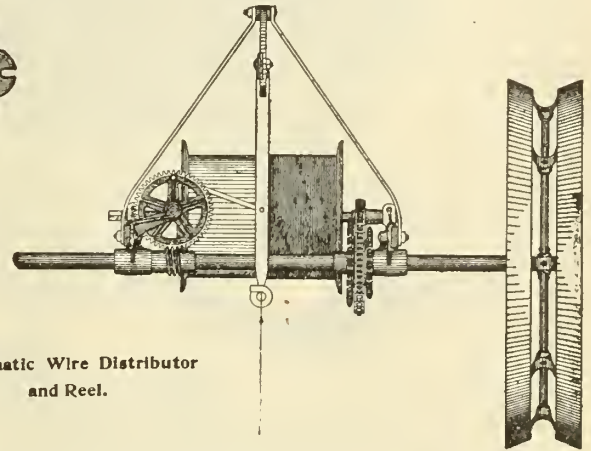
Fig. 3.

The valves of the Janesville Planter are two in number in each shank, an upper and a lower. This makes it impossible to plant two hills at the same time. The lower valve keeps the heel of the runner clear and by its action equalizes the difference between fast and slow driving. The upper valve prevents all possibility of discharging seed between the hills. Being enclosed in the shank, the valve mechanism cannot be affected by trash. The change from hill to drill drop may be made by turning a button on each shank which opens the valves: then release the clutch so as to make a continuous revolution. (See Fig. 3.)

Valves Adjusted to Hill Drop.

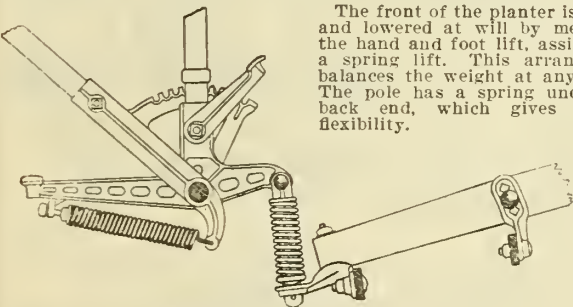


Bottom of Convertible Drop Seed Hopper.



Automatic Wire Distributor and Reel.

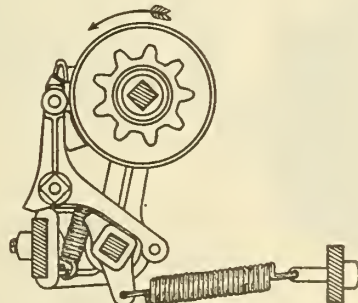
The Automatic Wire Distributor and Reel are operated by power from the main axle, so that you simply have to drive the horses and the reel takes care of itself, whether in laying out or taking up the wire. The reel has a friction clamp, which is to be used in letting out the wire, so as to produce the proper tension. The Automatic Distributor in taking up the wire prevents tangling on the reel. This is also an exclusive idea, and found only on the Janesville No. 1 Planter.



Spring Lift and Connection to Front Frame.

An adjustment on the pole may be raised or lowered to regulate the set of the check rower.

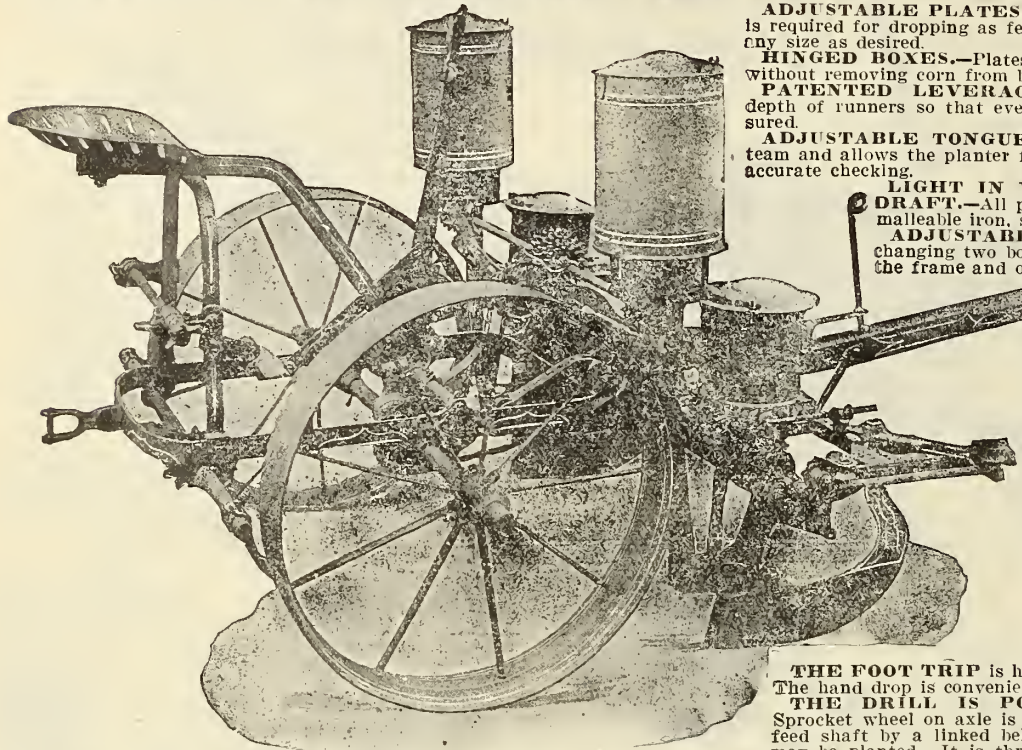
The Check Head Trip is a patented device which operates entirely different from the former manner in which this was accomplished. A trip bar is fastened on the front frame, and when the planter is raised out of the ground it automatically releases the wire from the planter.



Clutch In Gear.

The Automatic Clutch device is an exclusive feature that every user will appreciate. Its action is without jerk or jar when thrown in and out of gear, and it is positive in action. A safety device prevents breakage should a foreign substance get into the hopper. The buttons on the wire trip the clutch, allowing the feed shaft to make one revolution. This accumulates enough corn for one hill. It is then thrown out of gear until the next button operates the check rower and throws the clutch into gear.

UNION VICTOR CORN PLANTER.



**ADJUSTABLE PLATES**, wherein only one set of plates is required for dropping as few grains of corn or as many of any size as desired.

**HINGED BOXES**.—Plates can be removed and adjusted without removing corn from boxes.

**PATENTED LEVERAGE SYSTEM** for regulating depth of runners so that evenness of planting is always assured.

**ADJUSTABLE TONGUE** permits the use of any sized team and allows the planter front to run level, thus insuring accurate checking.

**LIGHT IN WEIGHT AND LIGHT IN DRAFT**.—All principal working parts made of malleable iron, so there is no breakage.

**ADJUSTABLE** to different widths by simply changing two bolts where the shank is bolted to the frame and one at point of running, without disturbing any of the working parts.

**HEADS** are made of steel, are adjustable, and have four rollers on each, which reduces the friction on wire to a minimum.

**RUNNERS** may be taken off, as a spool is riveted in heel of runners and is held onto shank by a heavy hooked bolt.

**ONE DOG** in center of planter, and in plain view of the operator, with the aid of a plunger stop revolves the seed shaft one-fourth at every stroke of the check arm, and as this shaft is directly connected to the plates by a gear, it is impossible to miss.

**A COMBINED PLANTER** and easiest to change to any known style of drop on the market.

**THE FOOT TRIP** is handy, and always ready for use. The hand drop is convenient.

**THE DRILL IS POSITIVE AND SIMPLE**.—Sprocket wheel on axle is connected to sprocket wheel on feed shaft by a linked belt, and four different distances may be planted. It is thrown out of gear automatically when planter is raised out of ground.

**THE WIRE IS AUTOMATICALLY THROWN OFF** when planter is raised, or may be thrown off by pulling a string which is attached to the hand lever. Flat, open or concave wheels are furnished as desired. We furnish special drill plates for any kind or size of grain when ordered; also a self-guiding automatic reel.

Planter, plain, \$30.00. Planter, with Fertilizer Attachment, \$40.00. Check Rowers, with 80 rods of wire, \$8.00.

**Fertilizer Attachment.**

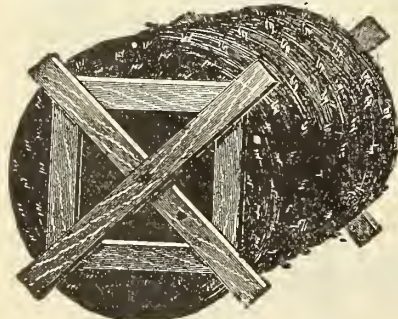
The celebrated Marks Feed is used on the Fertilizer Attachment, which is a positive Force Feed.

This machine is made to throw in or out of gear without stopping the team or disconnecting the corn-planting device. The material can be dropped in hills or drills continuously; quantity can be easily regulated.



**Corn Planter Runners.**

We are headquarters for Corn Planter Runners made to fit the following-named styles: Evans, Farmer's Friend, Hamilton, Barlow, Richmond Champion, Hensch & Dromgold, Keystone, Jr., U. S., Black Hawk, Challenge, etc. 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 style of bend. Price per pair \$3.00.



**Check-Rower Wire.**

Carry in stock 3 feet 6 inch and 3 feet 8 inch. Price per rod..... 6c. Special Price in Quantity.

**NAGLEY'S TRANSPLANTING MACHINE**

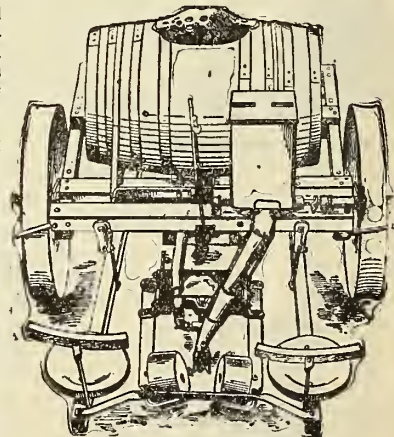
PRICE, \$55.00.

This Transplanter has been fully tested on all kinds of soil, and can be operated and worked satisfactorily on any ground on which you wish to transplant tobacco, cabbage, celery, tomatoes, etc. It is indispensable to those who have used it, and can be operated so that plants can be transplanted 16, 18, 20, 22, 30 or 45 inches apart, or other distances, with a 3/4-inch stream or more on the roots of the plants. The covering rollers pack the roots, leaving the dry dirt around the stalk or heart of the plant; thus the roots are kept moist a number of days without danger of baking. It is also a great labor-saving machine, especially in showery weather, as it only takes two boys and driver to plant from four to six acres a day with it. The machine carries a cask of water which will water 1200 plants, which, with proper care in transplanting, will live except where worms or other insects destroy them.

In front of the plow which works in the ground there is an adjustable cleaner, which cleans away from in front of the plant (being set) the loose stone and lumps of dirt which otherwise might be packed around the roots or stalk of the plant; thus it will work in stony ground as well as any other.

The roller packers roll over obstacles which shoes would drag along and interfere with setting the plants.

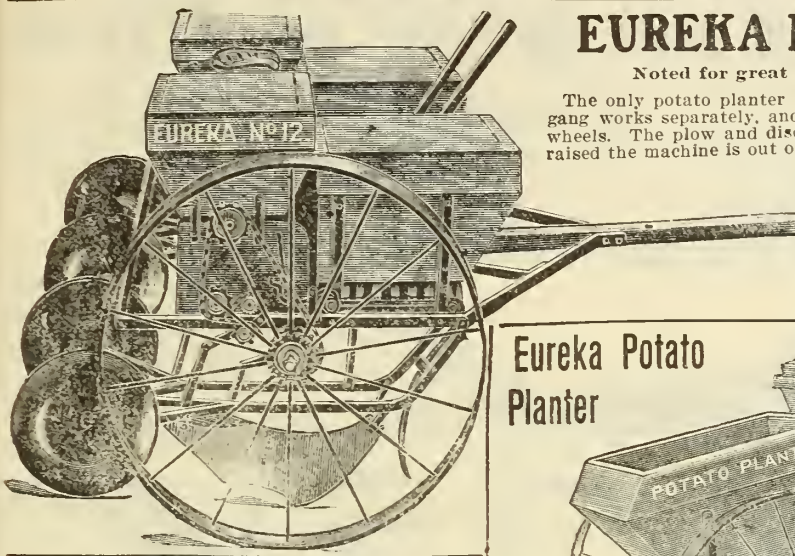
Some use them for planting corn, potatoes, tobacco, cabbage, etc.



**Our Automatic Check Valve Device is Furnished if Desired, But a Continuous Stream is Always Recommended.**

**DIRECTIONS.—Keep Heavy Oil on Check Valve.**

- 1st. Use martingales or breeching when hitching to Transplanter.
- 2d. Prepare your ground in good condition.
- 3d. Regulate the pressure iron so that the right pressure is attained on loose or heavy soil. The raising or lowering the rollers regulates the depth the plow should run in the ground.
- 4th. Adjust the footrests for the dropper boys' comfort.
- 5th. The two dropper boys set plants in the heel of the plow alternately.
- 6th. Drive horses slow and regular, and in a short time the boys can do good work.
- 7th. If you have long and short plants, transplant the long ones, then lower the packers for the short ones.
- 8th. The water is regulated by turning the upper faucet.



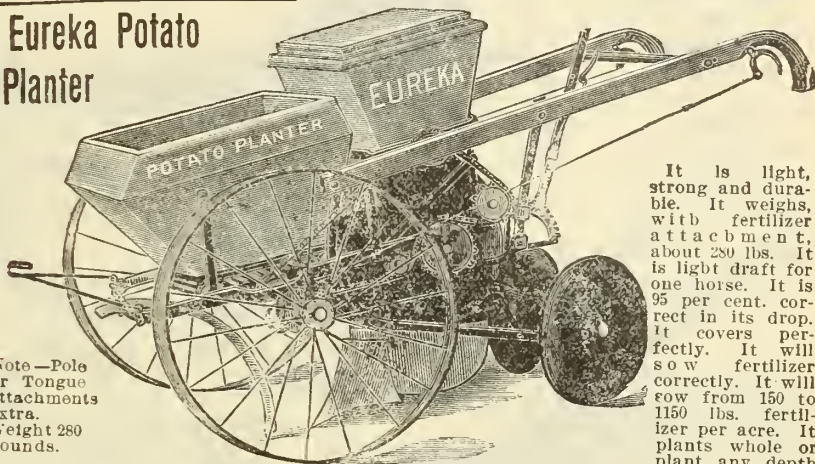
## EUREKA No. 12—Two-Row Potato Planter.

Noted for great capacity, ease of draft and excellent work.

The only potato planter made that will plant two rows at the same time. Each gang works separately, and one independent of the other. It is mounted on large wheels. The plow and disc are raised or lowered by convenient levers, and when raised the machine is out of gear. With one plow and disc down and the other side raised the machine will plant only one row. The discs are adjustable so any depth of planting required or any size ridge wanted can be made. The mechanical construction and devices used in the Eureka One Row Potato Planter are quite similar, both having the noted wizard fertilizer distributor, capacity of fertilizer sown per acre, minimum 200 lbs., maximum 2200 lbs. Each machine is provided with markers.

Special Retail Price, with Fertilizer Attachment, \$80.00.

### Eureka Potato Planter



It is light, strong and durable. It weighs, with fertilizer attachment, about 280 lbs. It is light draft for one horse. It is 95 per cent correct in its drop. It covers perfectly. It will sow fertilizer correctly. It will sow from 150 to 1150 lbs. fertilizer per acre. It plants whole or plant any depth cut seed. It will

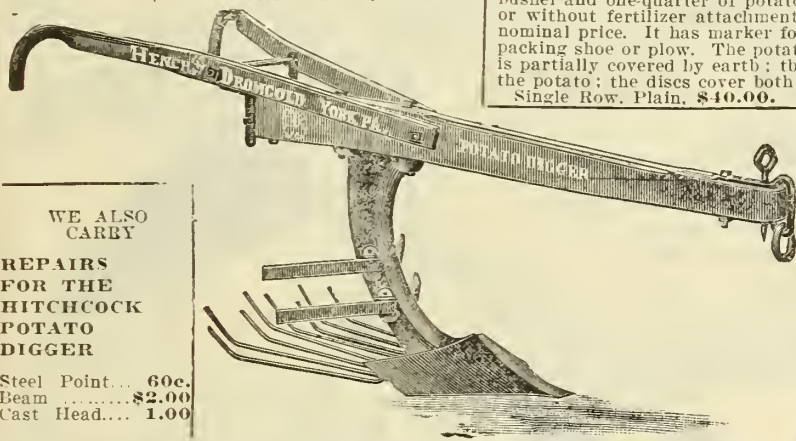
Note—Pole or Tongue attachments extra. Weight 280 Pounds.

required. It will drop seed in the row 15, 19, 23 and 30 inches apart. It will hold one bushel and one-quarter of potatoes. It will hold 50 pounds of fertilizer. It is made with or without fertilizer attachment. It turns easily at the end of the row. It is sold at a nominal price. It has marker for marking return row. The furrow is opened by an anti-packing shoe or plow. The potato is dropped equi-distant apart, as regulated. The potato is partially covered by earth; the fertilizer is dropped and does not come in contact with the potato; the discs cover both potatoes and fertilizer any depth desired. Single Row. Plain. \$40.00. With Fertilizer Attachment, \$45.00.

## Hench & Dromgold Potato Digger

The standards are made of cast iron, having on a highly-polished steel share. The 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. The 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 than straight ones. They are made of spring steel, and are very elastic and durable.

Price... \$7.00 Steel Share... 1.00



WE ALSO CARRY

REPAIRS FOR THE HITCHCOCK POTATO DIGGER

Steel Point... 60c.  
Beam... \$2.00  
Cast Head... 1.00

## "ACME"

### Hand Potato Planter



This is the Pioneer Hand Potato Planter. Simple, durable, practical; plants any sized seed in any soil, sod or new ground, at any uniform depth, two acres a day. It makes the holes, drops the seed and covers at one operation. Each tool is properly adjusted for work when it leaves the factory. Planting with the Acme the seed comes up quicker, more even, and stands the drought much better. No backache; operator stands up straight.

#### 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. Price 75c.

## "PEERLESS"

### Hand Potato Planter

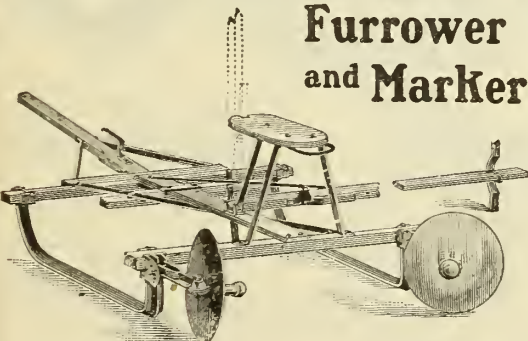


#### THE PEERLESS IS THE LIGHTEST TUBULAR PLANTER MADE.

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. It is braced to avoid bending, and has a broad, flat bottom, well adapted to the soft soils for which the Planter is intended.

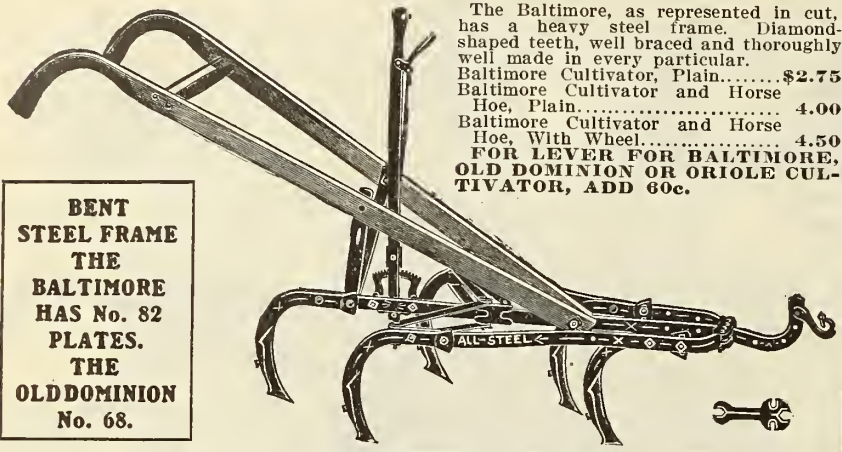
The conveyor tube is galvanized iron. Price.....\$1.00  
Same directions for working apply on this as on the Acme.

## Darnell's Improved Patent Furrower and Marker



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 furrowers 15 inches in diameter, with chilled hub and steel axle. Shipping weight 140 pounds. Price \$20.00.

## BALTIMORE, OLD DOMINION AND ORIOLE HORSE HOES AND CULTIVATORS.



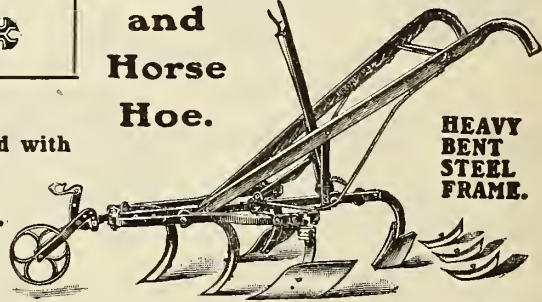
**BENT  
STEEL FRAME  
THE  
BALTIMORE  
HAS No. 82  
PLATES.  
THE  
OLD DOMINION  
No. 68.**

The Baltimore, as represented in cut, has a heavy steel frame. Diamond-shaped teeth, well braced and thoroughly well made in every particular.  
 Baltimore Cultivator, Plain.....\$2.75  
 Baltimore Cultivator and Horse Hoe, Plain..... 4.00  
 Baltimore Cultivator and Horse Hoe, With Wheel..... 4.50  
**FOR LEVER FOR BALTIMORE, OLD DOMINION OR ORIOLE CULTIVATOR, ADD 60c.**

**OLD DOMINION HORSE HOE AND CULTIVATOR.**  
 The Old Dominion is similar to the Baltimore except that it is a little lighter, and straight frame.  
 Sold principally in Virginia and the South, and wherever sold it becomes a favorite.  
 Old Dominion Cultivator, Plain.....**\$2.50**  
 Old Dominion Cultivator and Horse Hoe, Plain..... 3.75  
 Old Dominion Cultivator and Horse Hoe, With Wheel..... 4.25

**ORIOLE HORSE HOE AND CULTIVATOR.**  
 The Oriole is similar to the Old Dominion except that it has a bent frame.  
 Oriole Cultivator, Plain.....\$2.50  
 Oriole Cultivator and Horse Hoe, Plain.. 3.75  
 Oriole Cultivator and Horse Hoe, With Wheel..... 4.25

### Iron Age Cultivator and Horse Hoe.



**HEAVY  
BENT  
STEEL  
FRAME.**

Plain and with  
Lever  
Adjuster.

Cultivator, plain.....\$3.00  
 With Lever..... 4.00  
 Horse Hoe and Cultivator, plain..... 4.30  
 Horse Hoe and Cultivator, with Wheel..... 4.80  
 Horse Hoe and Cultivator, with Lever and Wheel..... 5.80  
 Horse Hoe, Cultivator and Corn Coverer combined, plain..... 5.75  
 Horse Hoe, Cultivator and Corn Coverer combined, with Lever. 6.75



### BALTIMORE COMBINED HARROW AND CULTIVATOR.

Four positions of teeth, as shown in cut—straight, smoothing, etc.

**PRICE,  
PLAIN,  
\$3.25.**

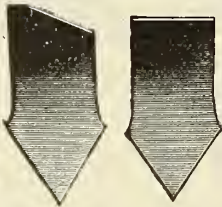
**WITH  
LEVER,  
\$3.75.**

## CULTIVATOR POINTS AND STEELS.

For Iron Age Riding Cultivators.



**LEVELER.**

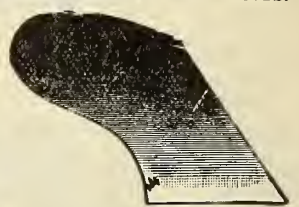


**STEELS NOT SHAPED  
FOR MALTA, BROWN AND  
SIMILAR STYLES WALKING  
AND RIDING CULTIVATORS**

Blades, furnished without holes to be fitted, price each.....**35c.**  
 Bull Tongues, same as above, each.....**30c.**  
 Malta Riding Cultivator Blades, complete, with backs and bolts, each.....**60c.**  
 Malta Riding Cultivator Calf Tongues, complete, with backs and bolts, each.....**45c.**



**91**

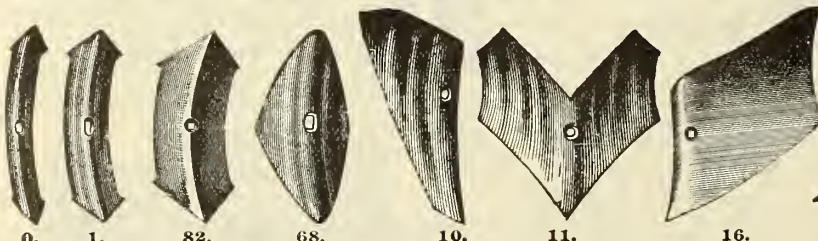


**92**

HILLING SHOVELS.

**PRICES OF STEELS.**

No. 90, 1 1/4 inches wide, each.....**13c.**  
 No. 91, 2 1/2 inches wide, each.....**14c.**  
 No. 92, Hilling Shovels, per pair.....**75c.**



No. 0—1 1/4-inch Diamond Point Steel.....\$.**06**  
 " 1—2-inch Diamond Point Steel.....**.06 1/2**  
 " 2—3-inch Diamond Point Steel.....**.07**  
 " 68—Oval or Jersey Point Steel.....**.07 1/2**  
 " 10—Turn Shovel, right or left, each.....**.15**  
 " 11—6-inch Sweep, about 7 inches across, each.....**.15**  
 " 11—8-inch Sweep, about 11 inches across, each.....**.18**  
 " 16—Turn Shovel, each.....**.15**  
 " 18—8-inch Sweep, each.....**.17**  
 " 18—10-inch Sweep, each.....**.18**  
 " 18—12-inch Sweep, each.....**.20**

No. 18—15-inch Sweep, each.....\$.**25**  
 " 12—Horse Hoe, Steel, with Shank or Standard, per pair.. **1.00**  
 " 12—Horse Hoe, Steel, without Shank or Standard, per pair. **.35**  
 Horse Hoe Attachments complete, in three pieces..... **1.15**  
 (The No. 12 is represented on the cut of the Iron Age Horse Hoe.)  
 Wheels for Cultivators, each.....**.60**  
 Levelers for Cultivators, each.....**.85**  
 Cultivator Plate Bolts, each.....**.03**  
 Cultivator Frame Bolts, each.....**.03**  
 Wheel Cultivator Clamps, each.....**.25**  
 Set Screw Cultivator Clamps, each.....**.20**

Teeth for Baltimore Combined Harrow and Cultivator, Diamond-Shaped Steel, each... 6 1/2 c. Cultivator Handles, finished, per pair... 75c.  
**All of the above goods are of Best Steel and Highly Polished. Special Prices on Bolts in Quantities.**



## FARMERS' FAVORITE SINGLE, DOUBLE AND TRIPLE SHOVEL PLOWS.

**PRICES.**  
 Farmers' Favorite, single-shovel Plow, \$2.00  
 Farmers' Favorite, double-shovel Plow, 2.25  
 Triple-shovel Plows, Regular, 2.50  
 Extra Heavy three-shovel Plows, 2.75

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.

### Steel Beam Georgia Stock No. 1.

For the purpose of attaching shovel blades or steels of any kind used on Shovel Plows. The beam is made of a plate of steel formed in the shape of a U bar, the front end being arranged with an adjustable clevis, dispensing with the need of a lap ring. The rear part of the beam forms a steel box for the Plow handles, thus making it impossible to split the handles. Regular Georgia Stock Plow Handles will fit these Plow Stocks.  
 Price, \$1.10

No. 3—With adjustable landside and rudder. This Plow Stock has an extra long and very strong beam and heavy foot. The construction of this steel beam makes this the best and strongest Plow Stock on the market.  
 Price, \$1.50.

### Four Nut Shovel Plow Spreader Bolts.

For Beams and Handles, each, 25c.  
 Shovel Plow Clevis, 20c.

### Shovel Plow Handles.

Finished, for Single and Double Shovel Plows, complete with round and rod, per set, 75c.  
 Finished, without round and rod, per pair, 60c.  
 Finished and bored, right and left, each, 30c.

### Shovel Plow

PRICE EACH 35c.

### Fender.

Wood

### Beam Four Shovel Plow.

PRICE \$3.25.

### Steel Beam Four Shovel Plow.

PRICE \$3.25.

Both Wood and Steel Beam are furnished with reversible plates.

### Steels.

For Single and Double Shovel Plows.

THE ORIGINAL AND GENUINE

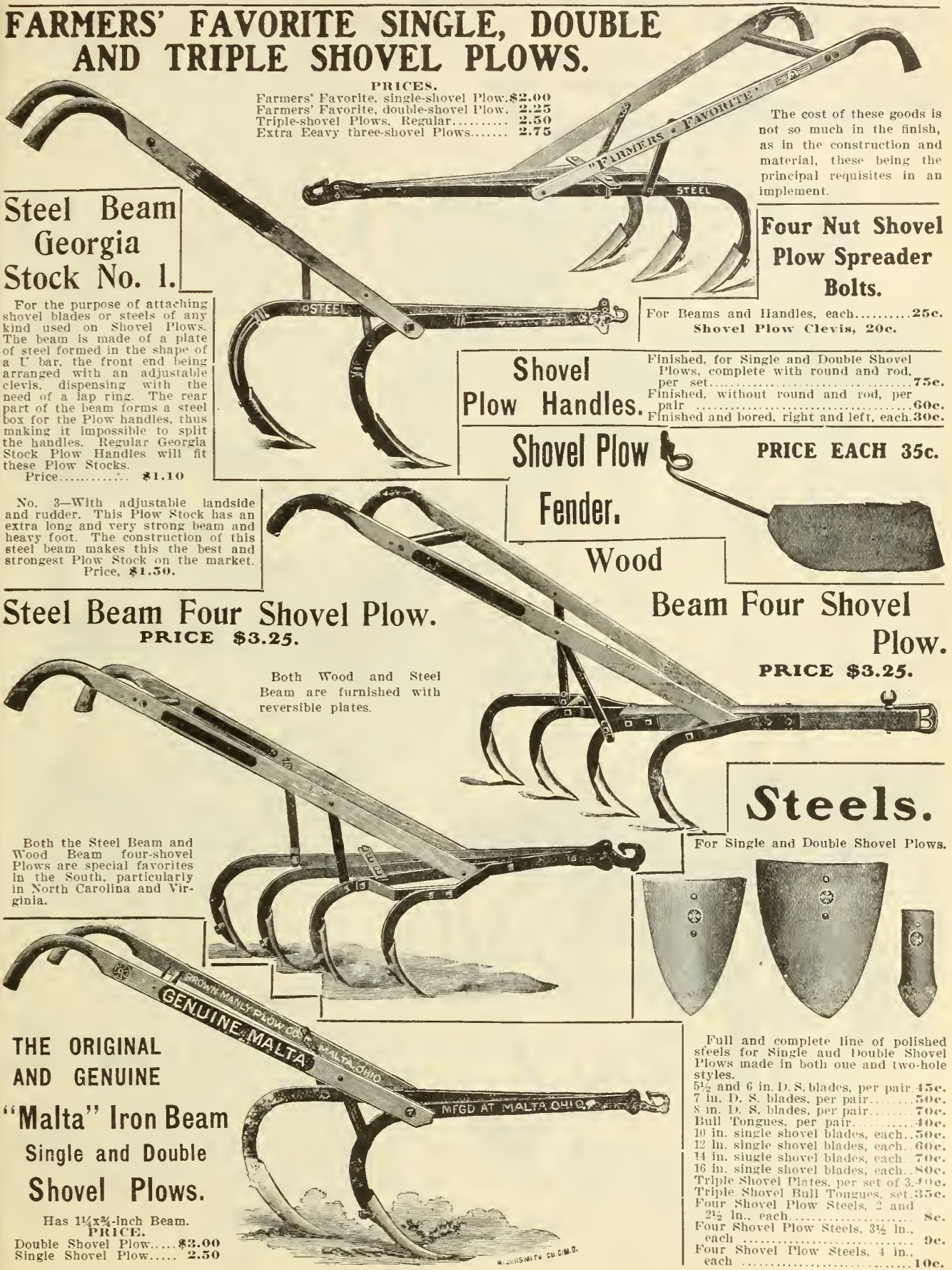
### "Malta" Iron Beam Single and Double Shovel Plows.

Has 1 1/4 x 3/4-inch Beam.

PRICE.  
 Double Shovel Plow, \$3.00  
 Single Shovel Plow, 2.50

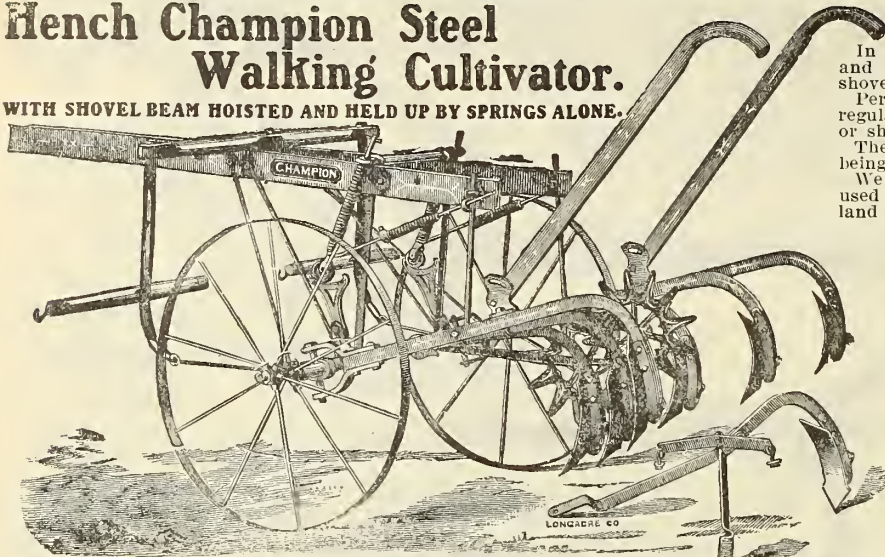
Full and complete line of polished steels for Single and Double Shovel Plows made in both one and two-hole styles.

5 1/2 and 6 in. D. S. blades, per pair 45c.  
 7 in. D. S. blades, per pair, 50c.  
 8 in. D. S. blades, per pair, 70c.  
 Bull Tongues, per pair, 40c.  
 10 in. single shovel blades, each, 50c.  
 12 in. single shovel blades, each, 60c.  
 14 in. single shovel blades, each, 70c.  
 16 in. single shovel blades, each, 80c.  
 Triple Shovel Plates, per set of 3, 10c.  
 Triple Shovel Bull Tongues, set, 35c.  
 Four Shovel Plow Steels, 2 and 2 1/2 in., each, 8c.  
 Four Shovel Plow Steels, 3 1/2 in., each, 9c.  
 Four Shovel Plow Steels, 4 in., each, 10c.



## Hench Champion Steel Walking Cultivator.

WITH SHOVEL BEAM HOISTED AND HELD UP BY SPRINGS ALONE.



In the annexed cut is seen our six-shovel Corn and Fallow Cultivator, with seventh or middle shovel.

Perfect spring pressure and hoisting device for regulating the shovel beams or drag hars for deep or shallow cultivating.

The high arch permits its use in high corn, and, being firmly braced, gives it great strength.

We furnish the same patent spring hoe that is used on our riding Cultivators for rocky or stumpy land at small extra cost.

**PRICES.**

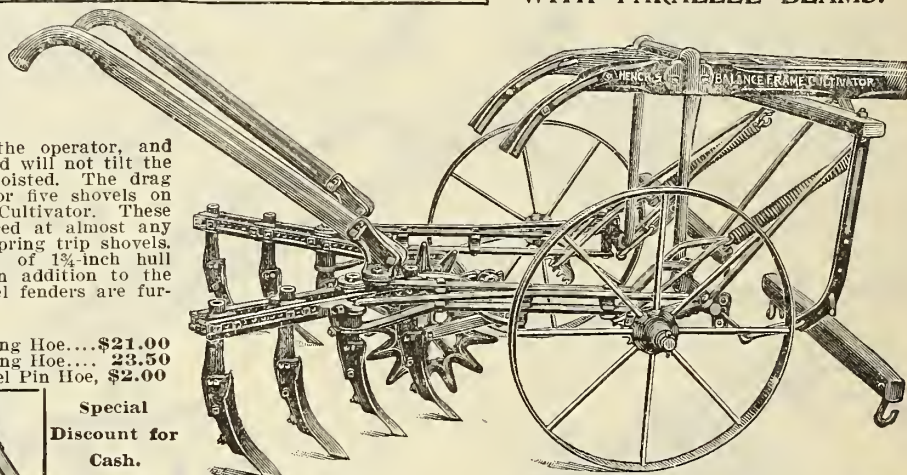
4 shovel Pin Hoe.....	\$16.50
6-shovel Pin Hoe.....	16.50
8-shovel Pin Hoe.....	18.00
Seventh or Middle Beam.....	1.50
4-shovel Spring Hoe.....	19.00
6-shovel Spring Hoe.....	20.00
8-shovel Spring Hoe.....	22.50
Seventh or Middle Shovel.....	2.25

In addition to the regular shovels, 2 hull tongues and 2 hilling shovels accompany each machine.

**Special Discount for Cash.**

## Hench Balance Frame Walking Cultivator.

WITH PARALLEL BEAMS.



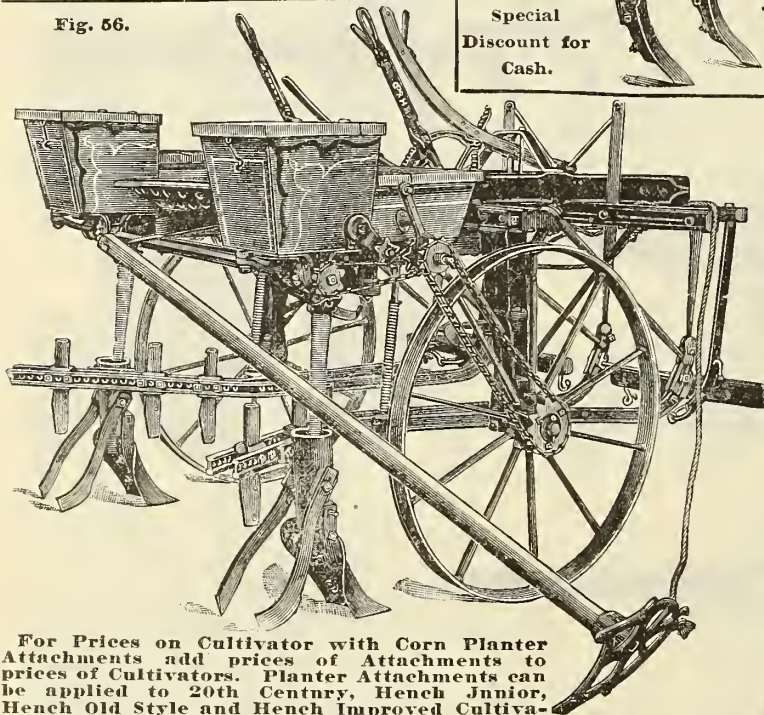
The shovel gangs are coupled by cone and socket bearing to the axle, which is 6½ inches in front of the wheel spindles, and when the shovel gangs are raised up the entire frame of the machine drops down about 6 or 7 inches, and this weight, together with the aid of the springs, raises the drag hars without any assistance whatever from the operator, and holds them up. It is a perfect balance, and will not tilt the tongue up when the shovel gangs are hoisted. The drag bars can be furnished with three, four or five shovels on each gang, making it 6, 8 or 10-shovel Cultivator. These shovel standards can be adjusted or placed at almost any position required. It is also made with spring trip shovels. Each machine is furnished with a pair of 1¾-inch hull tongues and a pair of hilling shovels, in addition to the other shovels. Either rotary or sheet steel fenders are furnished with either style of machine.

**PRICES.**

6-shovel Pin Hoe....	\$17.50	6-shovel Spring Hoe....	\$21.00
8-shovel Pin Hoe....	19.00	8-shovel Spring Hoe....	23.50
Two Standards and Shovels to make 10-shovel Pin Hoe, \$2.00			

Fig. 56.

**Special Discount for Cash.**



## 20th CENTURY CORN PLANTER ATTACHMENT.

Fig. 56 shows the 20th Century Cultivator with double 2 rows. The corn planter is also furnished without the row planter and fertilizer attachment, rigged for planting 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 feet 10 inches to 4 feet apart. The cost for a 2-row planter attachment is but a trifle more than a single row.

**Special Discount for Cash.**

**Price of Planter Attachment.**

Double-Row Planter Attachment, plain.....	\$15.00
Double-Row Planter Attachment, with Fertilizer Attachment .....	20.00

## STEELS FOR HENCH & DROMGOLD'S RIDING CULTIVATORS AND CHAMPION WALKING CULTIVATORS.

1¾ in. Plain Shovel, O. S., without revolving backs.....	.12c.
2½ in. Plain Shovel, O. S., without revolving backs.....	.15c.
2½ in. Plain Shovel, N. S., with revolving backs.....	.20c.
3¼ in. Plain Shovel, O. S., without revolving hacks.....	.20c.
3¼ in. Plain Shovel, N. S., with revolving hacks.....	.25c.
6x11 Blade, with revolving back, for 4-shovel Cultivator .....	.40c.
Hilling Shovels.....	.50c.

For Prices on Cultivator with Corn Planter Attachments add prices of Attachments to prices of Cultivators. Planter Attachments can be applied to 20th Century, Hench Junior, Hench Old Style and Hench Improved Cultivators, but when ordering it is necessary to state for which Cultivator it is intended.

## Hench's 20th Century Steel Ball Coupling Cultivator. FIG. 50

This is a perfect machine for both rolling and level land. Pivot axle, easy of adjustment, simple arrangement to accommodate the machine for narrow rows. Can be furnished either for pin or spring hoe.

The shovel gangs are coupled in front by steel balls, 1 1/4 inches diameter, and malleable sockets having larger running surface and no lost motion whatever. This simple arrangement prevents the lateral movement so common in this style of machine, so that, if the shovel happens to strike a bunch of grass, it will not glance around, but will cut it out.

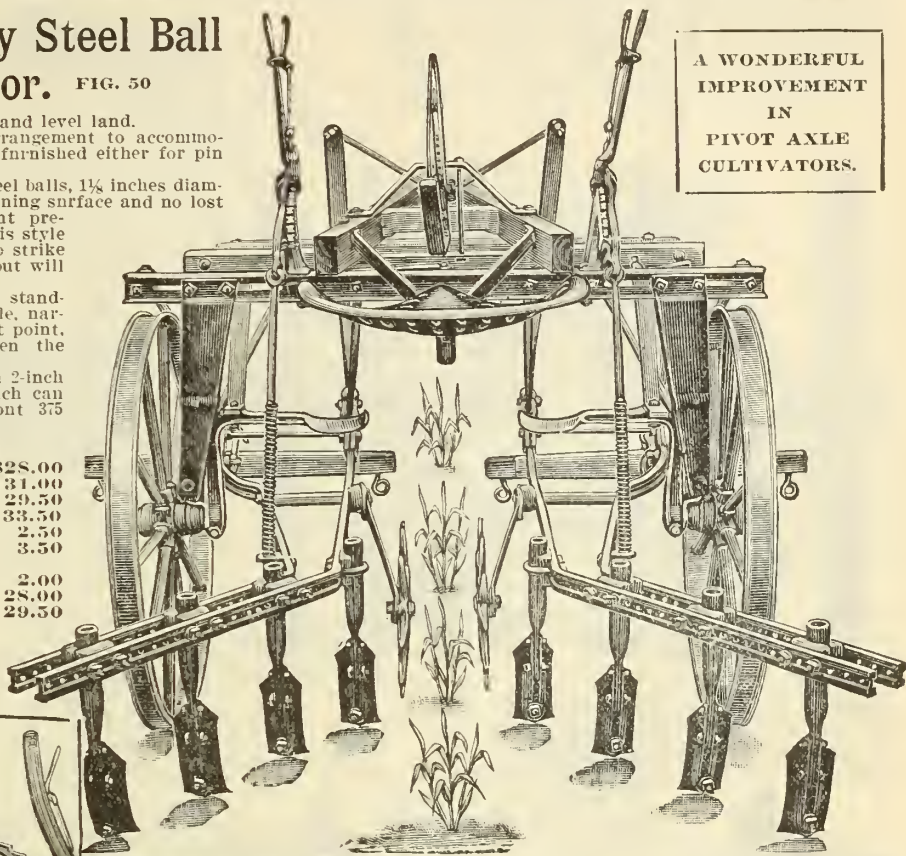
By simply slacking four nuts on the wheel standards they can be moved in or out on the axle, narrowing the wheels from 46 inches, the widest point, to 34 inches, the narrowest point, between the wheels.

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.

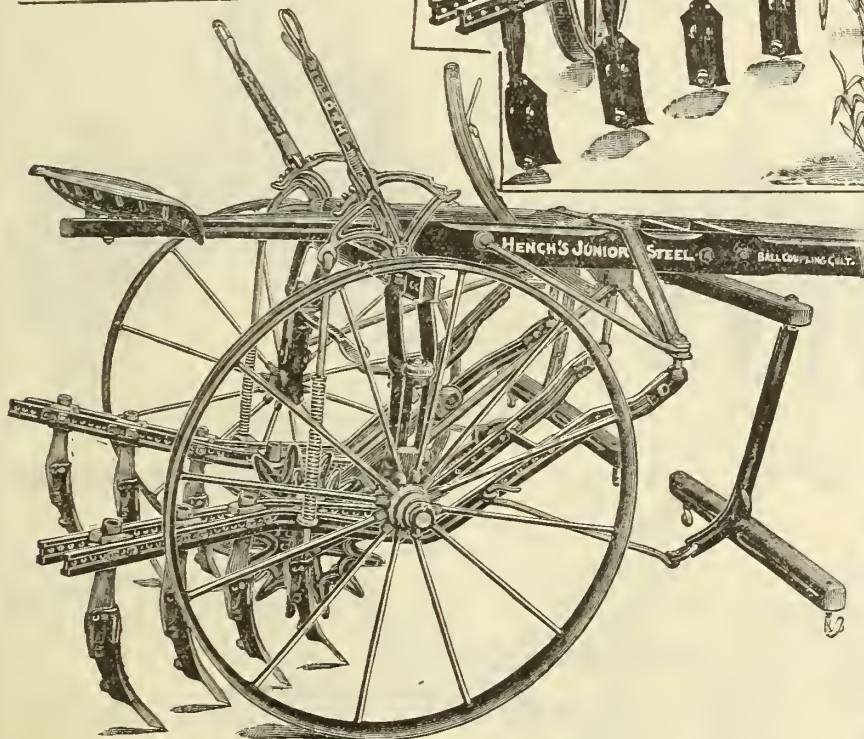
### PRICES.

8-shovel Pin Hoe.....	\$28.00
6-shovel Spring Hoe.....	31.00
8-shovel Pin Hoe.....	29.50
8-shovel Spring Hoe.....	33.50
2 Center Beams and Shovels, Pin Hoe.....	2.50
2 Center Beams and Shovels, Spring Hoe.....	3.50
2 Standards and Shovels to make 10-shovel Pin Hoe.....	2.00
4-disc Cultivator, with 13-inch discs.....	28.00
6-disc Cultivator, with 13-inch discs.....	29.50

**Special Discount for Cash.**



A WONDERFUL  
IMPROVEMENT  
IN  
PIVOT AXLE  
CULTIVATORS.



## Hench Junior Steel Ball Coupling Cultivator, No. 62. With 36-inch wheels.

The above cut represents our Hench Junior Cultivator, with 36-inch wheels. It is similar to our Twentieth Century, except the axle standard allows the wheels to pass over the axle, and is recommended where extremely narrow rows are not cultivated.

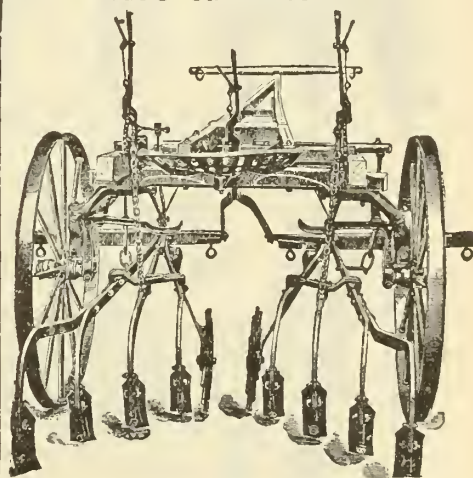
It is made with three, four or five shovels on each gang, making it six, eight or ten shovel Cultivator for rowed crops, with a pair of 1 1/4-inch bull tongues for first cultivation and one pair of hilling shovels for last cultivation of rowed crops.

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 in the Twentieth Century Cultivator, Fig. 56 (see Page 110).

**PRICES:** 6-shovel Pin Hoe, \$27.00; 6-shovel Spring Hoe, \$30.00; 8-shovel Pin Hoe, \$28.50; 8-shovel Spring Hoe, \$32.50; 2 Center Beams and Shovels, Pin Hoe, \$2.50; 2 Center Beams and Shovels, Spring Hoe, \$3.50; 2 Standards and Shovels to make 10-shovel Pin Hoe, \$2.00; 4-disc Cultivator, with 13-inch discs, \$27.25; 6-disc Cultivator, with 13-inch discs, \$28.75.

**Special Discount for Cash.**

## The Hench Improved Pivot Axle Cultivator.



It can be narrowed from 47 inches to 36 inches between the wheels, thus enabling the operator to cultivate rows from 2 feet up to 4 feet apart. We use steel wheels 36 inches high, with renewable hoxes. The spindles are 1 1/4 inches round steel, 8 inches long, and can be renewed very quickly by any blacksmith. We furnish it with either three or four shovels on each side, or drag bar as desired. Also a pair of hilling shovels and one pair of bull tongues.

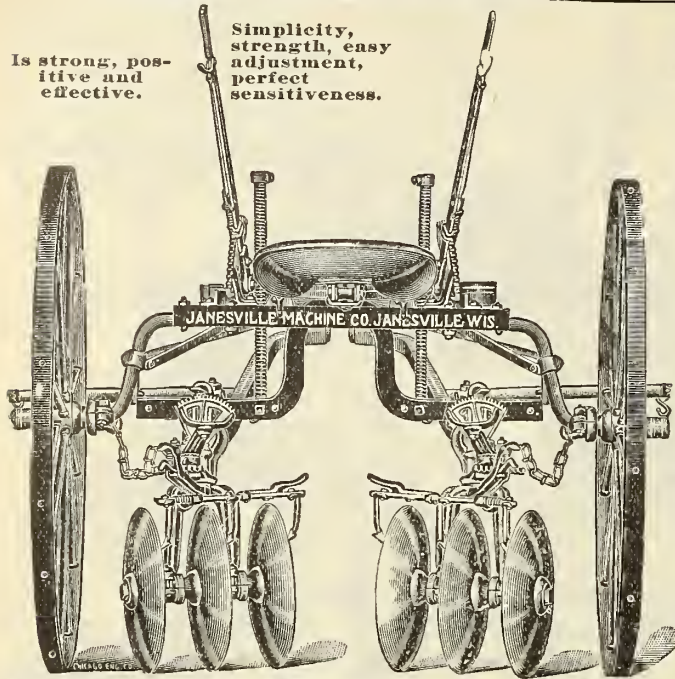
**PRICES:** 6-shovel Pin hoe, \$27.00; 6-shovel Spring Hoe, \$30.00; 8-shovel Pin Hoe, \$29.00; 8-shovel Spring Hoe, \$33.00; 2 Center Beams and Shovels, Pin Hoe, \$2.50; 2 Center Beams and Shovels, Spring Hoe, \$3.50.

**Special Prices for Cash.**

**ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.**

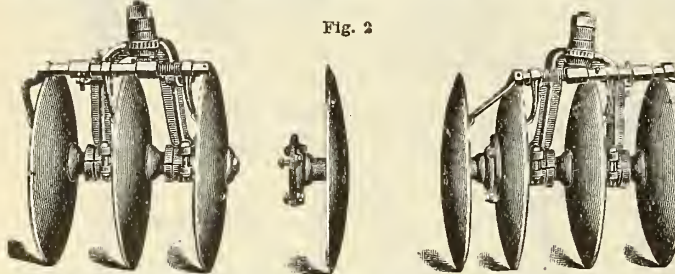
Is strong, positive and effective.

Simplicity, strength, easy adjustment, perfect sensitiveness.



Prices, less Levelers and Lister Bars.....	\$35.00
Levelers, per pair.....	1.75
Four-shovel Attachment Pin Hoe.....	7.00
Six-shovel Attachment Pin Hoe.....	7.50
Four-shovel Attachment Spring Trip.....	8.00
Six-shovel Attachment Spring Trip.....	8.90
16-inch discs and thimble for attachment to gangs, per pair..	4.00

Fig. 2



This cut shows the gangs with a fourth disc attachment and how easy it is for one to convert the Janesville Disc Cultivator into a disc harrow.

## Janesville Disc Cultivator

Steel wheels; removable dustproof box; disc gangs heavy construction; chilled wearing boxes in the yoke; light draft; angle of the discs and the tilt of the frame accomplished by levers. The one machine that is imitated by other Disc 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.

Any change made in the angle of the gangs does not affect the position of the shields and levelers.

The foot levers, the gangs and the coupling arms that control the tilt of the gangs and shields are positive in their action, and never slip when set, because they are held by interlocking teeth.

The yoke boxes in the gang yoke are renewable. It is never necessary to buy a new gang yoke when the bearings of the yoke boxes wear out. This feature will be appreciated.

The spring pressure feature of the Janesville Disc Cultivator enables the operator to put the gangs as deeply as desired into the hardest soil.

As the gangs are hung on springs the guiding is done by foot pressure instead of by shoving sidewise. The discs follow the shape of the ground evenly because of their adjustment with the wheels.

You can run it up close to the young plant without cutting off or wounding the lateral roots. (See Fig. 3.)

The Janesville cuts and buries trash, vines, stalks and kills the weeds. It does not shove clods and stalks against the young plant to break it down or bury it. We produce with this implement a layer of pulverized light mulch, checking evaporation by day, absorbing night dew (as may be seen by inspection in the early morning), and also acting as a blanket to store the warmth of the day's sunshine through the night.

Fig. 3.

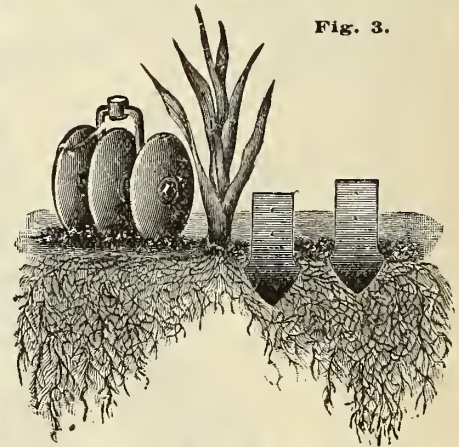


Diagram of a corn plant showing advantage of using the Janesville Disk Cultivator. Perfect tillage without injury to the roots of the young plants.

## Janesville Crown Walking Cultivator.

The Crown Walking Cultivators are built with a strong, thoroughly braced frame. The arch is high enough to clear the corn the last working, and wide enough to enable the operator to get the shovels close to the plant.

The shovels are made of the best material, tempered with great care and finished in best style.

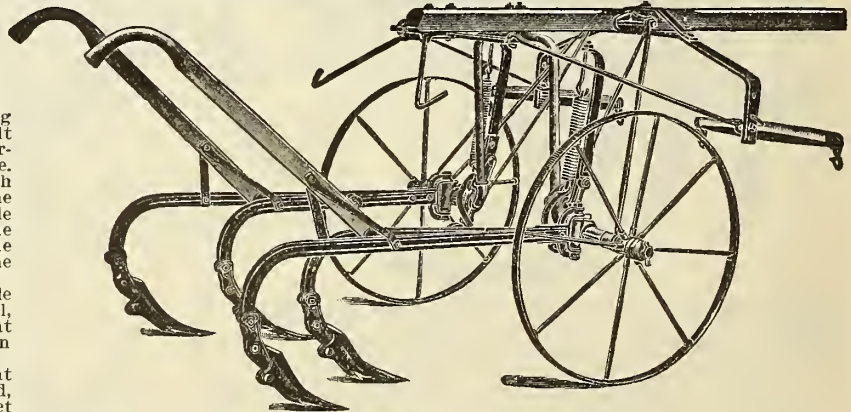
Either round or flat connection is provided, and shovels may be set at any desired angle.

Furnished with any style gang—six or eight shovel, brakepin or spring trip, regular, parallel or wood beam, as desired.

An exclusive feature of the Crown is the Balance Spring, as shown in cut. This permits ease of handling at any depth at which the gangs may be used.

The rocking of the frame has no effect on the lift of the spring on the gangs.

BALANCE SPRING.



**PRICES:**

C 4—4-shovel Steel Beam Pin Hoe.....	\$17.50
C 5—4-shovel Steel Beam Spring Hoe.....	18.50
C 6—6-shovel Steel Beam Pin Hoe.....	18.50
C 7—6-shovel Steel Beam Spring Hoe.....	20.00
C 8—8-shovel Steel Beam Pin Hoe.....	18.50
C 14—4-shovel Parallel Beam Pin Hoe.....	18.50
C 15—4-shovel Parallel Beam Spring Hoe....	19.50
C 16—6-shovel Parallel Beam Pin Hoe.....	19.50
C 18—8-shovel Parallel Beam Spring-Tooth.	19.50

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

**T**HIS distributor has same fertilizer feed as used on Hench & Dromgold Corn Planters, except that it is much larger; It has given perfect satisfaction wherever used; is comprised of only five pieces, so arranged as to prevent fertilizer from arching. We also have under the planter a funnel-shaped iron, which scatters the fertilizer as desired.

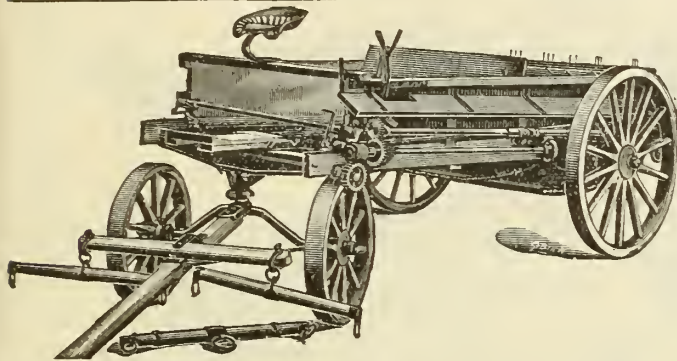
Three chain wheels are furnished with each machine. It will sow or distribute evenly any kind of commercial fertilizer in any quantity desired, from the smallest to the largest amount required per acre.



## SINGLE ROW FERTILIZER DISTRIBUTER

**FURNISHED WITH SCORING SHOVEL**  
To open the row, and at the same time distribute the fertilizer evenly; also a rear shovel to mix the fertilizer with the soil, which is very important.

Price complete..... \$14.00



## Appleton Manure Spreader

The Appleton Manure Spreader has a moving apron, which, by means of an ingenious device, returns of itself, and which the driver easily and instantly controls without leaving his seat. It is ready to receive a new load by the time the driver is back to the barn, without any turning back of the apron by hand-crank, but by a device so simple, so strong and so efficient that its durability is unquestioned.

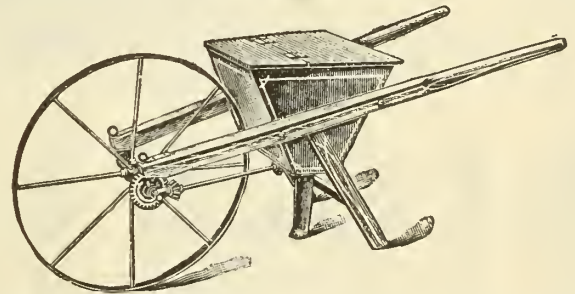
In the Appleton Manure Spreader the apron always clears itself in spreading the load. A reference to the illustration will show a follower, which follows the load up to and within reaching distance of the cylinder (or beater), so that when the apron returns to the loading position it is absolutely clear of manure. The movement of the cylinder (or beater) is independent of the apron.

There is no end gate on the Appleton Manure Spreader, and there is no end gate necessary. The manure is loaded snugly against the beater and the follower, and the driver can, by means of an ingenious device, instantly release the cylinder (or beater) at a considerable saving of time and labor over what is necessary on the end-gate spreaders.

On the Appleton Manure Spreader the driver can, from his seat, regulate the number of loads per acre without stopping the machine, or he can at any moment stop the feeding or spreading entirely and instantly. The machine has four variations of feed, easily controlled as suggested, so that the driver can spread the manure thicker or thinner, or stop the spreading entirely, as the nature of the soil may require.

Price, 50-bushel machine, \$120.00. **Special Discount for Cash.**

## Baltimore Pea and Fertilizer Drill.



The agitator is new, being of steel in the form of two knife-shaped arms sweeping under the mass of the fertilizer and throwing it upon the revolving disc 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. Price \$6.00. (See Page 92.)

## Standard Manure Spreader

Similar to the above, but has an adjustable front axle—just what is needed by the truckers. Special Beater, Hood and Rake. Distributes uniformly. This is one of the simplest Spreaders on the market. Easily handled. Apron cannot "race." Lever at seat changes the feed. Positive force feed. Apron returned by team.

- 40-bushel machine.....\$115.00
- 50-bushel machine..... 120.00
- Drill attachment..... 8.00

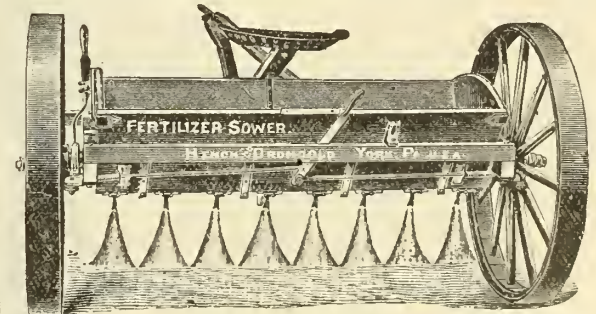
## Advance Manure Spreader.

Axles of cold-drawn steel, 2 3/16 in. rear and 1 3/4 in. front wheels with cast-iron hubs, steel tires and steel spokes with upset ends. Tires 5 in. wide in rear and 4 in. wide in front. Amount distributed regulated by driver from seat, and every inch of ground covered. The double gear operates beater, and works from both sides. Will spread any and all kinds of barnyard manure, fertilizer, lime or ashes. By means of the end gate no material is wasted. With off motion of the lever by the driver the end gate is raised and machine thrown in gear. Machine cannot be thrown in gear unless end gate is raised safely out of the way of beater, thus avoiding breaking. Will spread broadcast or in rows, thick or thin, as desired, and feed can be changed from one to twenty-five loads per acre without stopping machine. No. 1, 40 bushels, \$105.00; No. 2, 50 bushels, \$110.00; No. 3, 60 bushels, \$115.00; brake or lock for hilly sections, \$5.00; three-horse evener, \$4.00.

**Special Discount for Cash.**

**PRICES OF ATTACHMENTS:** Drill attachment, for row manuring, extra \$8.00; Lime hood, \$5.00.

## Fertilizer, Lime and Ash Distributer



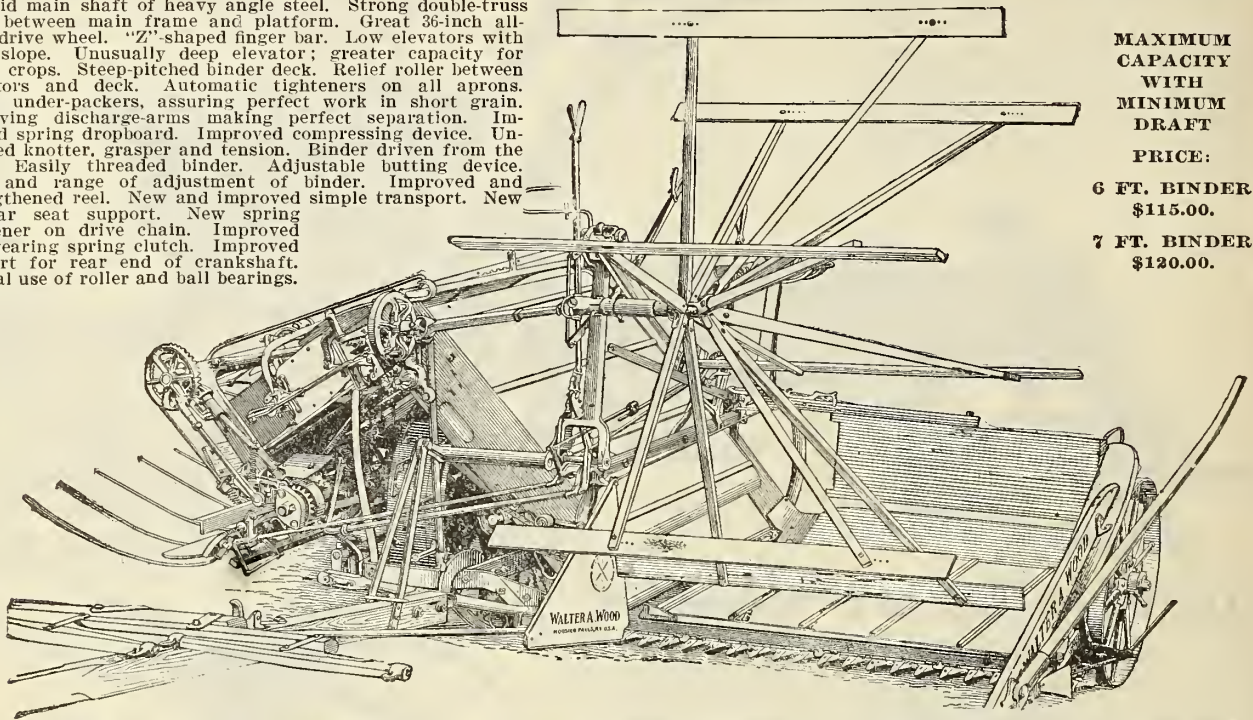
This Fertilizer Distributer will sow evenly fertilizer, Paris Green, etc. The machine is easily operated. The lever on the rear throws the machine in and out of gear. The lever on the left side changes the feed to a small quantity for sowing, even Paris Green, and will sow as much as 8000 pounds of fertilizer per acre.

- No. 1—Distributer, 3 feet 6 inches.....\$30.00
- No. 2—Distributer, 4 feet 8 inches..... 36.00
- No. 3—Distributer, 5 feet 10 inches..... 42.00
- No. 4—Distributer, 8 feet 2 inches..... 48.00

Those persons who use unsifted lime can order extra screen, which is a little larger than the box. Price..... \$3.00

**WALTER A. WOOD NEW CENTURY GRAIN BINDER, A Genuine Two-Horse Machine.**

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 compressing device. Unequaled knotter, grasper and tension. Binder driven from the rear. Easily threaded binder. Adjustable butting device. Ease and range of adjustment of binder. Improved and strengthened reel. New and improved simple transport. New tubular seat support. New spring tightener on drive chain. Improved non-wearing spring clutch. Improved support for rear end of crankshaft. Liberal use of roller and ball bearings.



**MAXIMUM CAPACITY WITH MINIMUM DRAFT**

**PRICE:**

**6 FT. BINDER \$115.00.**

**7 FT. BINDER \$120.00.**

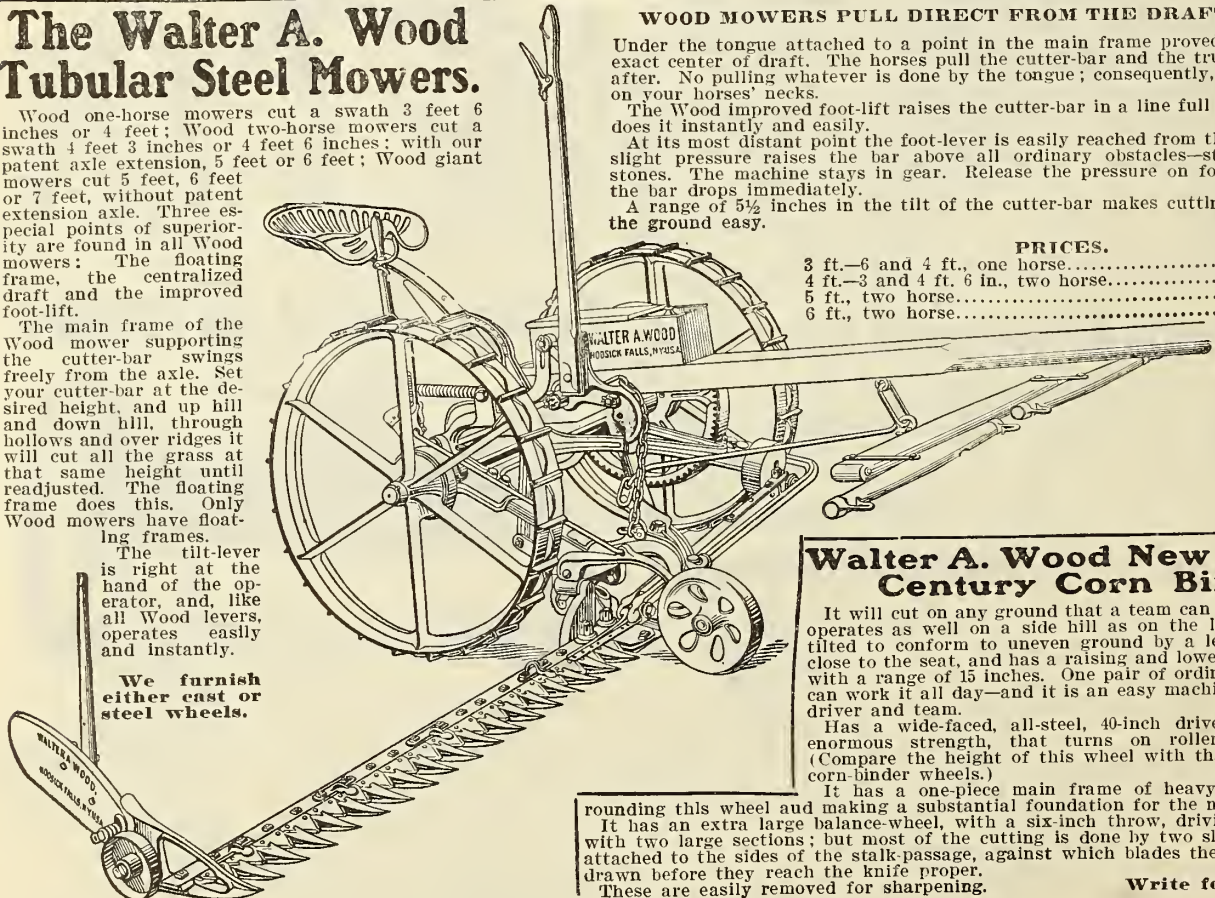
**The Walter A. Wood Tubular Steel Mowers.**

Wood one-horse mowers cut a swath 3 feet 6 inches or 4 feet; Wood two-horse mowers cut a swath 4 feet 3 inches or 4 feet 6 inches; with our patent axle extension, 5 feet or 6 feet; Wood giant mowers cut 5 feet, 6 feet, 6 feet or 7 feet, without patent extension axle. Three especial points of superiority are found in all Wood mowers: The floating frame, the centralized draft and the improved foot-lift.

The main frame of the Wood mower supporting the cutter-bar swings freely from the axle. Set your cutter-bar at the desired height, and up hill and down hill, through hollows and over ridges it will cut all the grass at that same height until readjusted. The floating frame does this. Only Wood mowers have floating frames.

The tilt-lever is right at the hand of the operator, and, like all Wood levers, operates easily and instantly.

**We furnish either cast or steel wheels.**



**WOOD MOWERS PULL DIRECT FROM THE DRAFT ROD**

Under the tongue attached to a point in the main frame proved to be the exact center of draft. The horses pull the cutter-bar and the truck follows after. No pulling whatever is done by the tongue; consequently, no weight on your horses' necks.

The Wood improved foot-lift raises the cutter-bar in a line full 20 inches—does it instantly and easily.

At its most distant point the foot-lever is easily reached from the seat. A slight pressure raises the bar above all ordinary obstacles—stumps and stones. The machine stays in gear. Release the pressure on foot-lift and the bar drops immediately.

A range of 5½ inches in the tilt of the cutter-bar makes cutting close to the ground easy.

**PRICES.**

- 3 ft.—6 and 4 ft., one horse.....\$37.50
- 4 ft.—3 and 4 ft. 6 in., two horse..... 40.00
- 5 ft., two horse..... 42.00
- 6 ft., two horse..... 45.00

**Walter A. Wood New Century Corn Binder.**

It will cut on any ground that a team can travel, and operates as well on a side hill as on the level. It is tilted to conform to uneven ground by a lever placed close to the seat, and has a raising and lowering device with a range of 15 inches. One pair of ordinary horses can work it all day—and it is an easy machine on both driver and team.

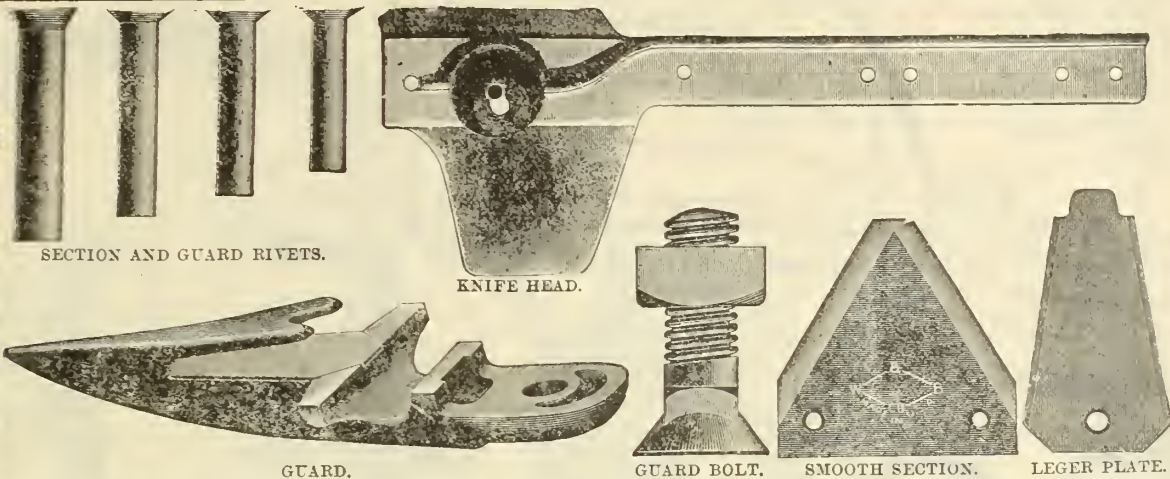
Has a wide-faced, all-steel, 40-inch drive wheel of enormous strength, that turns on roller bearings. (Compare the height of this wheel with that of other corn-binder wheels.)

It has a one-piece main frame of heavy steel surrounding this wheel and making a substantial foundation for the machine.

It has an extra large balance-wheel, with a six-inch throw, driving a knife with two large sections; but most of the cutting is done by two sharp blades attached to the sides of the stalk-passage, against which blades the stalks are drawn before they reach the knife proper.

These are easily removed for sharpening.

**Write for Prices.**



## MOWER SMOOTH SECTIONS, KNIVES AND GUARDS.

Machine.	Size of Section.	Retail Price of Section		No. of Knife Head	Retail Price of Knife Head		Knives complete.		Pitman Boxes No.	Retail Price of Pitman Boxes
		No. of Section	of Guard		4 1/2 ft.	5 ft.				
For Wood Mower.....									539-540	50c.
.. Wood ..	3 x 3 1/2	.05	A	.25	1680	\$.35	\$2.40	\$2.50	291 1/2	60c.
.. Wood ..	3 x 2 3/8	.05	P. P.	.25	1-10	.35	2.40	2.50	1785	40c.
.. Deering ..	3 x 3 1/2	.05	D 442	.25	F 123	.35	2.40	2.50	D 334	80c.
.. Deering ..	3 x 3 1/8	.05	F 1/2	.25	F 174	1.00	2.40	2.50		
.. Deering ..	2 1/4 x 3 3/8	.05	F 99 1/2	.25	F 74	1.00	2.40	2.50		
.. McCormick Mower.....	3 x 3 3/8	.05	M 462	.25	M 139	.25	2.40	2.50	M 317	40c.
.. McCormick ..	3 x 3 1/8	.05	M 253	.25	M 139	.25	2.40	2.50		
.. Champion ..	3 x 3 7/8	.05	A 41	.25	A 415	.50	2.40	2.50		
.. Champion ..	3 x 3 3/8	.05	A 811	.25	A 415	.50	2.40	2.50	A 747	75c.
.. Champion ..	3 x 3 7/8	.05	A 405	.25	A 415	.50	2.40	2.50		
.. Champion ..	3 x 3 1/2	.05	A 41	.25	B 37	.50	2.40	2.50		
.. Champion ..	3 1/2 x 3 1/2	.05	A	.25	B 37	.50	2.40	2.50		
.. Osborne ..	3 x 3 High Punch	.05	K 280	.25	K 284	.25	2.40	2.50	K 278	50c.
.. Osborne ..	3 x 3 Low Punch	.05	K 72	.25	K 212	.25	2.40	2.50		
.. Johnston ..	3 x 3 3/8	.05	R 97	.25	919	.25	2.40	2.50		
.. Johnston ..	3 x 3 1/2	.05	77	.25	124	.25	2.40	2.50	257	40c.
.. Plano ..	3 x 3 3/8	.05	H 46	.25	J 94	.25	2.40	2.50	J 100	25c.
.. Plano ..									J 99	40c.
.. Milwaukee ..	3 x 3 1/8	.05	P K 5	.25	P. G. 6	.25	2.40		P J 50	25c.
.. Milwaukee ..									P H 173	25c.
.. Adriance Buckeye Mower.	3 x 3 3/8	.05	564	.25	557 F	.40	2.40	2.50		
.. Akron Buckeye ..	3 x 3 3/8 Low Punch	.05	775	.25	301	1.00	2.40	2.50		
.. Akron Buckeye ..	3 x 3 3/8 High Punch	.05	775	.25	301	1.00	2.40	2.50		
.. Whiteley Mower.....	3 x 3 1/2 Low Punch	.05	A 16	.25	A 57	1.00	2.40	2.50		
.. Whiteley ..	3 x 3 1/2 High Punch	.05	A 185	.25	15	1.00	2.40	2.50		
.. Eureka ..	3 x 2 3/8	.05	40	.25	66 B	.50	2.40	2.50		
.. Eureka ..	3 x 3 1/8	.05	40 D	.25	66 B	.50	2.40	2.50		
.. Manny ..	3 x 3 3/8	.05	A	.25	Mal. Lock Nut	1.00	2.40	2.50		
.. Warrior ..	2 1/2 x 5	.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 ..	3 x 3 1/8	.05	635	.25	6139	.50	2.40	2.50		
.. Empire ..	3 x 3 3/8	.05	55	.25	Forged	1.00	2.40	2.50		
.. Bradley ..	3 x 3 1/2	.05	400	.25	736	.50	2.40	2.50		

## BINDER SICKLE SECTIONS, GUARDS AND KNIVES.

Machine.	Size of Section.	Retail Price of Section		No. of Knife Head	Retail Price of Knife Head		Knives complete.		
		No. of Section	of Guard		6 ft.	6 1/2 ft.	7 ft.		
For Wood Binder.....	3 x 2 3/8	\$.05	W	\$.25	H 2139	\$.40	\$2.75		\$3.00
.. Wood ..	3 x 2 3/8	.05	H 171	.25	H 1150	.35		\$3.00	
.. Deering ..	3 1/2 x 2 1/2	.05	286	.25	H 260	.25	2.75		3.00
.. Deering ..	3 1/2 x 2 3/8	.05	286	.25	A 46	.50	2.75		3.00
.. McCormick Binder.....	3 x 2 1/8	.05	H 495	.25	B 23	.25	2.75		3.00
.. Champion ..	3 x 2 3/8	.05	U 53	.25	1852	.50	2.75		3.00
.. Osborne ..	3 x 2 3/8	.05	D 300	.25	B 587	.25	2.75		3.00
.. Johnston ..	3 x 2 3/8	.05	50 A	.25	L 296	.25		3.00	3.00
.. Plano ..	3 x 2 3/8	.05	L 300	.25	L 395	.25	2.75		3.00
.. Plano ..	3 x 2 1/2	.05	L 67	.25	L 66	.25	2.75		3.00
.. Milwaukee ..	3 1/2 x 2 1/4	.05	J 76	.25	H 41 3/8	.25	2.75		3.00
.. Adriance ..	3 x 2 1/2	.05	1265	.25	T 245 A	.40	2.75		3.00
.. Akron Buckeye Binder.....	3 x 2 1/2	.05	T 35	.25	H 700	1.00	2.75		3.00
.. Triumph ..	3 x 2 1/2	.05	2	.25	615	.70	2.75		3.00

Leger Plates for all Machines, 5c. each. Section and Guard Rivets, 20c. lb. Guard Bolts for all machines, 4c. each.

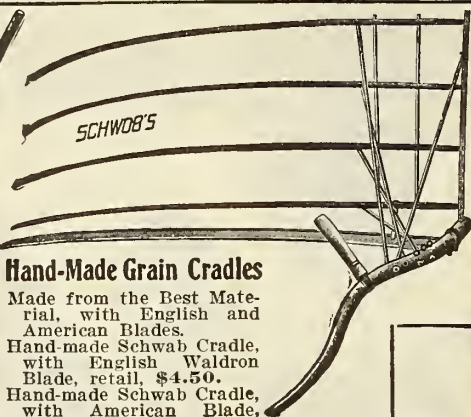
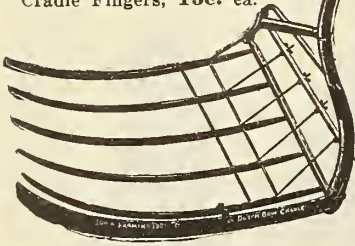
Above we give a table of sizes, numbers and prices of Sections, Guards, Knife Heads and Knives complete, and combinations generally used. In some cases more than one Knife Head and Guard have been used with the same Section. In ordering, always give number of Guard and Knife Head, also drawing of Section wanted, showing holes punched in Section. In ordering Knives complete, always give number of old Knife Head.

## Factory-Made Cradles.

Factory-made Cradle, American Blade, five fingers, complete with Scythe, No. 5, \$3.25.

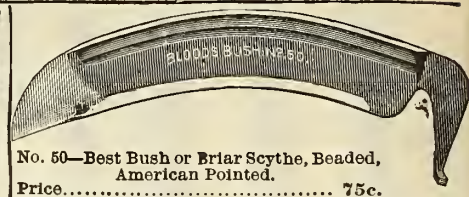
Factory-made Cradle, American Blade, six fingers, complete with Scythe, No. 5½, \$3.50.

Cradle Fingers, 15c. ea.

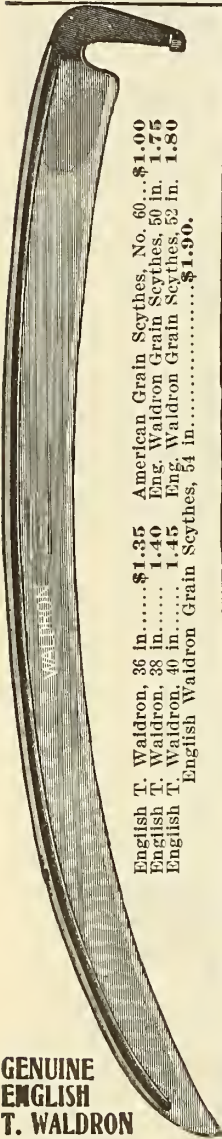


## Hand-Made Grain Cradles

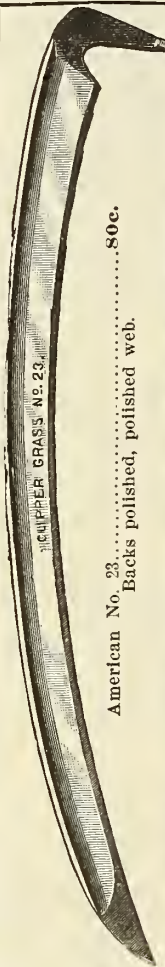
Made from the Best Material, with English and American Blades.  
Hand-made Schwab Cradle, with English Waldron Blade, retail, \$4.50.  
Hand-made Schwab Cradle, with American Blade, retail, \$3.25.



No. 50—Best Bush or Briar Scythe, Beaded, American Pointed.  
Price..... 75c.



English T. Waldron, 36 in.....\$1.35  
American Grain Scythes, No. 60...\$1.00  
English T. Waldron, 38 in..... 1.40  
Eng. Waldron Grain Scythes, 50 in. 1.75  
English T. Waldron, 40 in..... 1.45  
Eng. Waldron Grain Scythes, 52 in. 1.80  
English Waldron Grain Scythes, 54 in.....\$1.90.

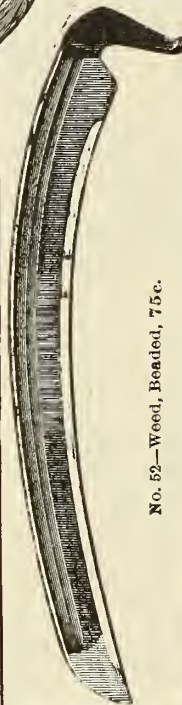


American No. 23.....80c.  
Backs polished, polished web.



## THE AMERICAN SICKLE EDGE HAY KNIFE

The best cutting knife made. Right or left hand. Section can be easily replaced.  
Price.....\$1.25.

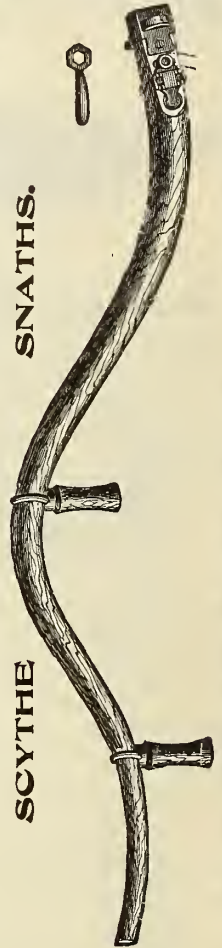


No. 52—Weed, Beaded, 75c.



## LIGHTNING PATTERN HAY KNIFE.

Price..... 75c.



## SCYTHE

## SNATHS.

No. 80—Ring Fastening Socket, iron trimmed. Retail price.....65c.  
No. 55—Patent Loop, solid plate, iron trimmed. Retail price.....75c.  
No. 100—Two Rings, Bush Snath. Retail price.....85c.  
No. 105—Patent Bush Snath. Retail price.....\$1.00

## Scythe Stones.



No. 1—Willoughby Creek, 10c., \$1.00 dozen.

## GENUINE ENGLISH T. WALDRON SCYTHES.

No. 4—Indian Pond No. 2 (red end).....5c., 50c. dozen.  
No. 5—Mowing Machine (beveled).....10c. each.  
No. 6—Darby Creek.....10c., \$1.00 dozen.  
No. 7—Imported English Talaere.....20c. each.  
None genuine unless labeled Sir Pyres Mostyn, Talaere Quarries.  
Cigar Emery.....10c. each.

## BUSH AND BRIAR HOOKS.

No. 380—Axe handle bush hook, 75c.  
No. 390—Two-ring bush hook, 75c.  
No. 393—Socket briar, \$1.25.  
With knife on back.



## Corn, Potato and Manure Hooks and Corn Knives.

No. F 32.—Flat oval four-tine solid steel potato hooks. Retail price.....50c. each.  
No. F 35.—Extra heavy four angular tine Jumbo potato hooks. Retail price.....60c. each.  
No. 132 or 1132.—Patent locked heavy potato hooks. Retail price.....60c. each.

**CORN HOOKS (Retail Prices).—**Regular pattern, not adjustable, 20c. each.

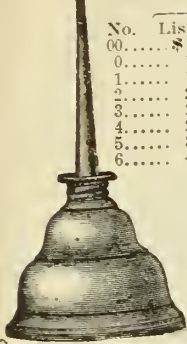
**CORN KNIVES.—**Clipper, 25c. each; Eureka, 50c. each; 15-inch solid steel, forged, 30c. each; 18-inch solid steel, forged, 40c. each.  
**GARDEN SETS.—**3 pieces, 5-T rake, shovel and hoe, \$1.00 per set.



## OILERS. We Carry in Stock a Full Line of Oil Cans for all Kinds of Farm Machinery; Also Harvester Oils.

### CHACE ZINC OILER.

No.	List—Doz.	Retail.
00.....	\$1.00	10c. each.
0.....	1.25	10c. "
1.....	1.50	10c. "
2.....	2.00	15c. "
3.....	2.25	15c. "
4.....	2.75	20c. "
5.....	3.50	25c. "
6.....	4.50	30c. "



No. 3 CHACE.



OVAL—No. 699.  
No. 699—Bent or Straight Stem. Oval.....10c.



ROUND.  
No. 698—Bent or Straight Stem. Round....10c.



DOME—No. 700.  
No. 700—Dome.....10c.



No. 601.  
Copperized Steel Mowing Machine. Bent or Straight Stem.....20c.



Engineers' Oilers.  
1 pint.....30c.  
1 quart.....40c.

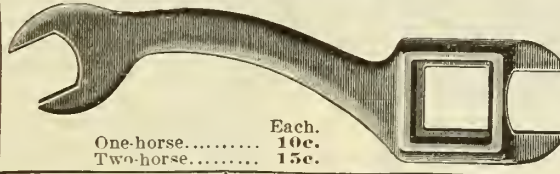
### THE "ELGIN" ADJUSTABLE WRENCH.



**WILL HOLD PIPE OR NUTS.**  
Both Jaws Hardened.—Length, 7 Inches.  
Wrench Is All Steel.—Weight, 10 Ounces.

It will fit a pipe up to 3/4 inch or a nut that is 1 1/4 inches across. Adjusting to fit the articles you get all the leverage and no ends to interfere. When the toothed jaw is worn out, get a new one for 25 cents; it makes the wrench as good as when you bought it.  
Price....75c. each. For extra jaws... 25c. each.

### OLIVER PLOW WRENCHES.



Each.  
One-horse..... 10c.  
Two-horse..... 15c.

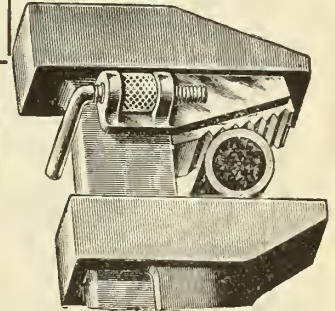
**BINDER TWINE.**  
We make a specialty of Binder Twine and carry a large stock at lowest prices, and can supply in any quantity desired, such as Sisal, Standard, Standard Manila, Manila and Pure Manila. Will be pleased to open correspondence as to kinds and prices. **Write for Prices.**

**HARVESTER OIL.**  
5-gallon can...\$2.00 1-gallon can... 50c. 1/2-gallon...30c.  
Special Prices for One-half Barrel and Barrels.

### COTTER.



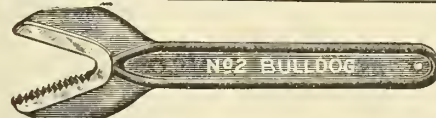
### MONKEY WRENCH PIPE JAW.



When there is only a little work to do (not enough to warrant buying a pipe wrench) "The Elgin" Jaw on a monkey wrench will do it. Price, each, 30c.

**Will Fit Any Ordinary 10 or 12-Inch Monkey Wrench.**

### "BULL-DOG" WRENCHES.



No. 0—Pocket size, 4 inches long. List price, per dozen..... \$3.00	Retail price.....15c. each.
No. 1—5 1/4 inches long. List price, per dozen..... \$4.00	Retail price.....20c. each.
No. 1 1/2—5 3/4 inches long. List price, per dozen..... \$5.00	Retail price.....25c. each.
No. 2—9 inches long. List price, per dozen..... \$12.00	Retail price.....60c. each.

### WROUGHT SCREW AGRICULTURAL WRENCHES.



Retail price, each.....	6-in. .25	8-in. .35	10-in. .40	12-in. .50	15-in. .75
List price, per dozen....	\$9.00	\$10.00	\$12.00	\$14.00	\$24.00



### TWIN WRENCHES.

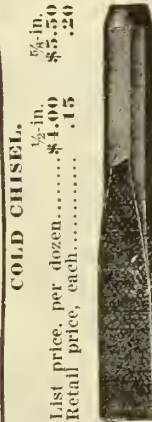
Twin, 10 inches long.  
List price, per dozen..... \$18.00  
Retail price.....75c. each.

### "ALWAYS READY" WRENCHES.



Manufactured from Special Steel, Forged and Tempered in Oil, Polished and Nickel-plated.

No. 1—5 inches long. Each.  
List price, per doz..\$5.00 Retail price.. 30c.  
No. 2—7 inches long.  
List price, per doz..\$6.75 Retail price..40c.



### COLD CHISEL.

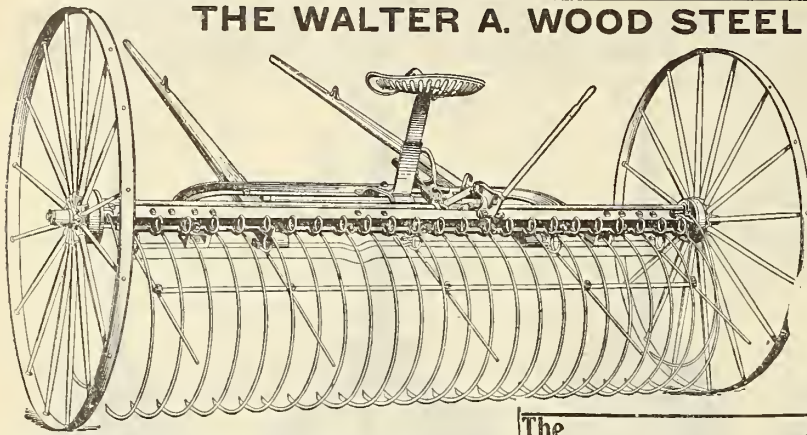
5/8-in. \$5.50  
1/2-in. \$4.00  
List price, per dozen..... \$4.15  
Retail price, each..... .15

### PUNCH.



1/2-in. 5/8-in.  
Retail price, each..... .15 .15  
List price, per dozen..... \$3.00 \$4.50

## THE WALTER A. WOOD STEEL SELF-DUMP HAY RAKES.



It is in every sense of the word a self-dump rake. You merely touch the trip with your foot. The dumping is automatic. The self-dump rake also has a hand-dump attachment.

Naturally, in a rake the important parts are the rakers—the teeth. The Wood teeth are made on a special pattern designed to produce best results. They do not harrow the ground, but they rake all the hay. They do not allow it to roll over and over and finally tangle in the wheels, but they rake it and carry it until you touch the trip. All Walter A. Wood rakes can be used for one or two horses, the shafts sliding together and forming a pole.

**PRICE OF SELF-DUMP RAKES, ALL STEEL.**

8 ft., with 20 teeth, \$21.00; 8 ft., with 24 teeth, \$22.00; 9 ft., with 27 teeth, \$23.00.

**Special Prices for Cash.**

The Wood tedder is built of steel throughout, is perfectly balanced and very light in draft. It is exceptionally strong.

The strong forks are readily adjusted at different heights from the ground by the use of one lever, with a unique device for passing obstructions.

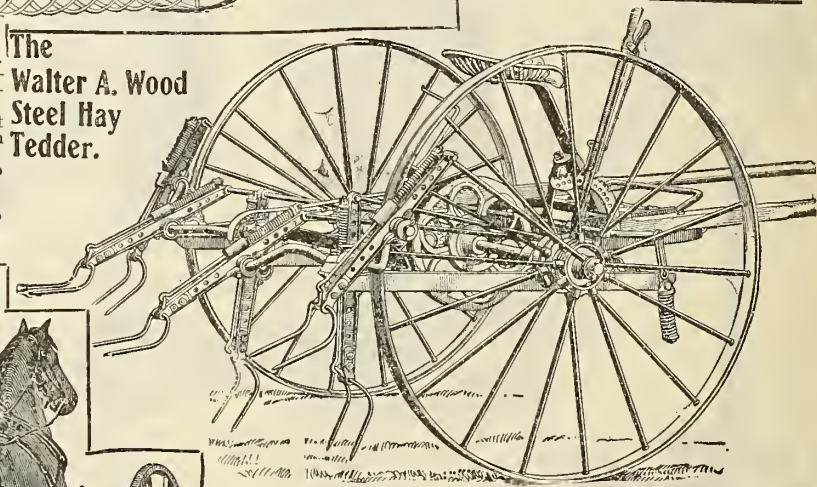
Each fork has four distinct motions calculated to best separate and toss the hay.

**PRICES OF HAY TEDDERS.**

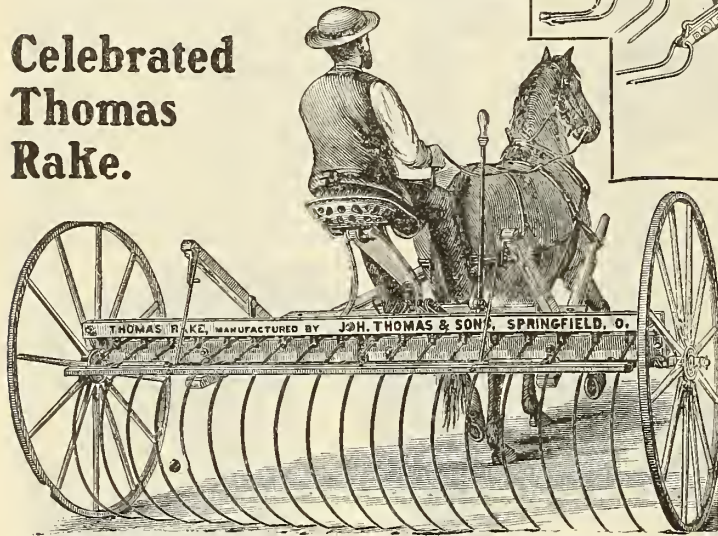
Six-fork..... \$32.00  
Eight-fork..... 35.00

**Special Prices for Cash.**

**The Walter A. Wood Steel Hay Tedder.**



**Celebrated Thomas Rake.**



This rake has long been known in the agricultural world as one of the best rakes made. It rarely requires any repairs; will rake corn-stalks, as well as the heaviest hay; has a long and good spring over each tooth; an over-hanging cleaner with roller turns the hay in dumping and brings green hay on top.

**PRICE \$20.00. Special Price for Cash.**

Always on hand, stock of forks for leading styles of hay tedders.

**PRICE..... 25 CENTS.**

**Special Prices in Quantities.**

When ordering tedder forks always state name of tedder, year it was made if possible, and whether fork is in one or two pieces.

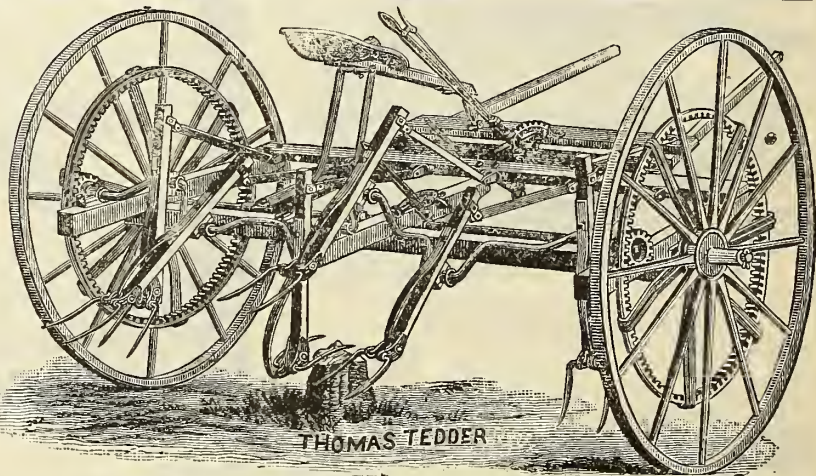


**Genuine Thomas Tedder.**

On this tedder is used a continuous heavy steel axle. Wheels have lugs to prevent slipping, and tires are bolted on. Lever for throwing in and out of gear is in the center of tedder, and operator can work it from his seat. A regular pitchfork style of kicker is used. Fork spring is of steel.

This machine is built in a most substantial manner, and of the very finest and strongest material, and will properly handle the heaviest hay. All the kickers are between the wheels.

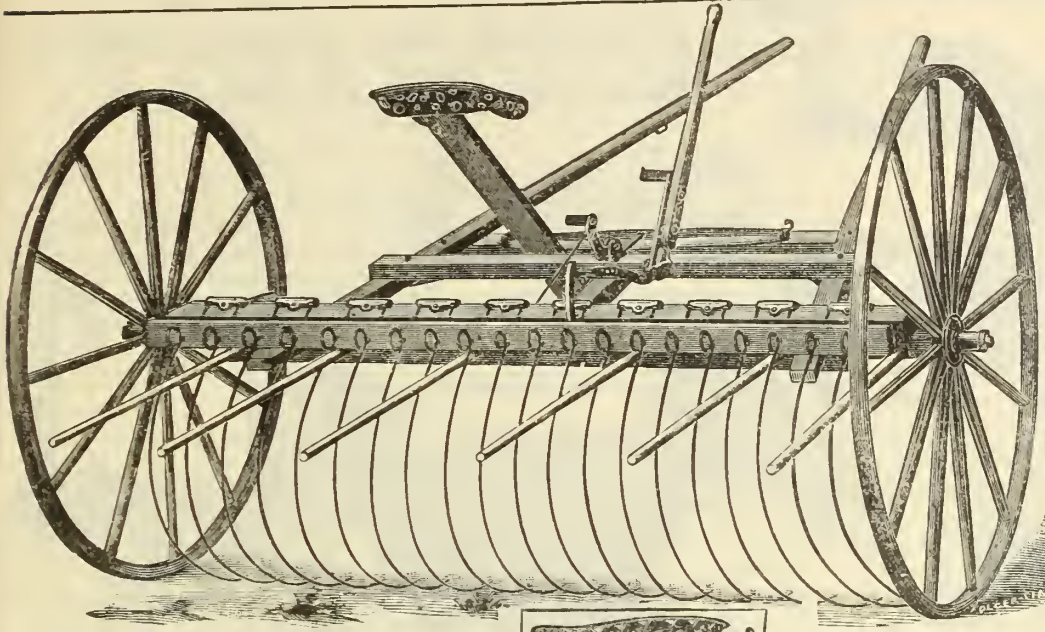
Price, \$34.00.



**RAKE TEETH. FOR ALL LEADING RAKES.**

In ordering, either send old tooth or exact drawing and avoid errors.

**PRICE, 25c.**



## Baltimore Rakes.

As there are some who prefer a wood frame rake, we are having manufactured for us the Baltimore.

These have steel teeth, made from the best crucible steel and tempered in oil.

Self-Dumping..... \$19.00

Hand Dumping.... 16.50

Special Price for Cash.

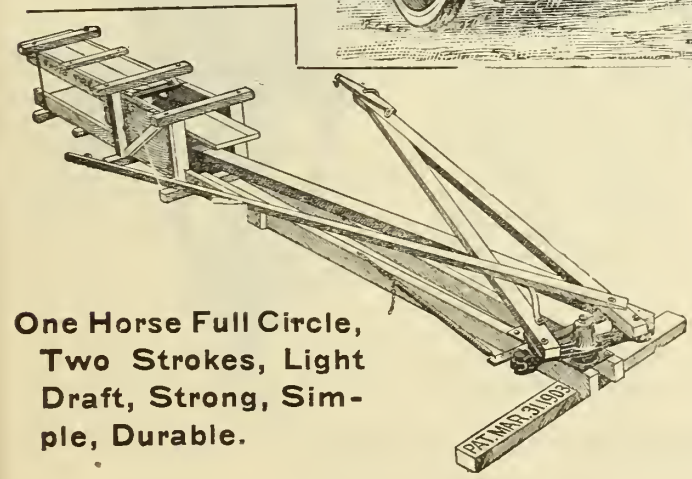
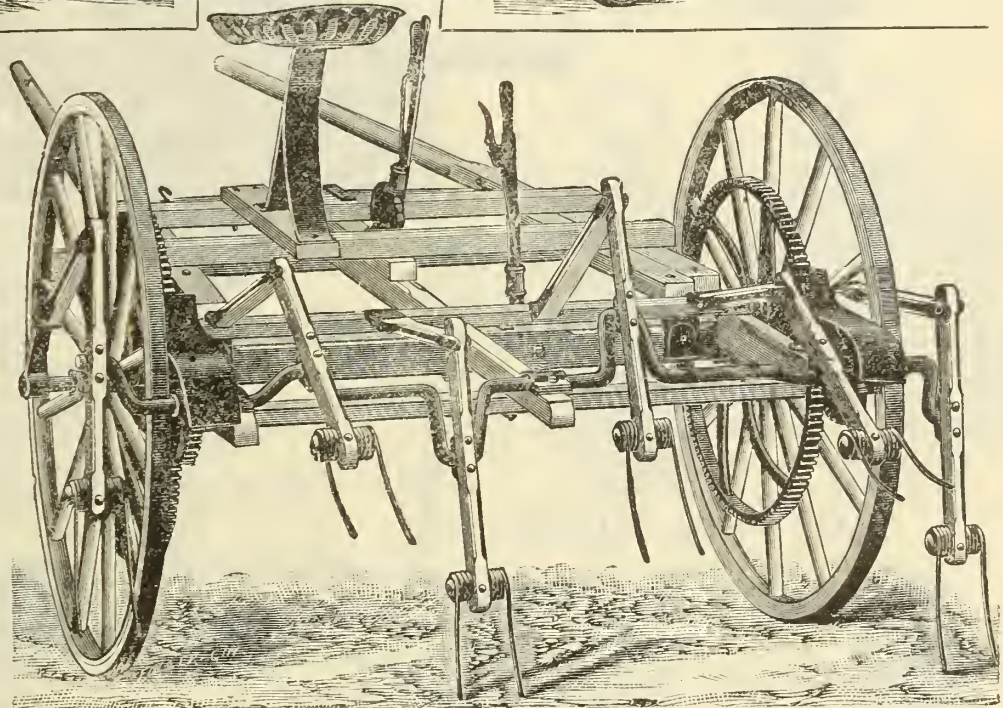
## Baltimore Tedders.

The ground wheels are closer together than on most Tedders. The outside forks kick the hay up loose after the wheels pass over it. Forks are made of crucible steel, oil-tempered. One of the simplest and most comprehensive Tedders on the market.

### PRICE OF BALTIMORE TEDDER.

6-fork Wood.....\$29.00  
6-fork Steel..... 31.00

Special Price for Cash.



**One Horse Full Circle,  
Two Strokes, Light  
Draft, Strong, Sim-  
ple, Durable.**

## Rapid Fire Hay Press.

Direct power is applied from driving arms to pitman straight against the hay without any cogs, chains, knuckles, hinges, ratchets or other nuisances.

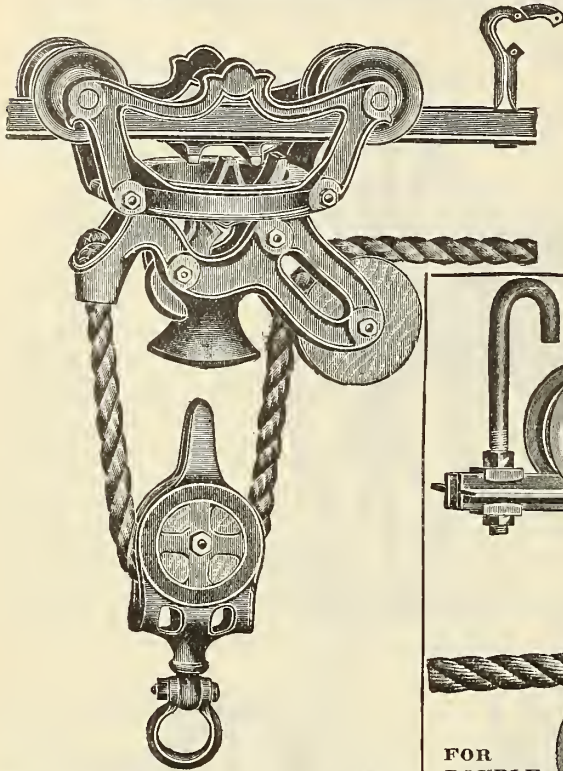
A four-inch axle tapered just enough to make the lightest draft is a feature of the Rapid Fire that is better than any other on the market, no matter how much you pay.

The rebound does not go against the sweep and push it on the horse.

The driving arms are only 16 inches long, and are HEAVY, STRONG and DURABLE, and made on a principle to PREVENT FRICTION, WEAR and BREAKAGE, and applied so as to INCREASE the LEVERAGE as the hay is more compact, and thus reduce the strain on the horse to a minimum.

Capacity is not governed alone by packing capacity, but also by the amount of hay that can be put in.

Price \$75.00. Special Price for Cash.



Steel Track Carrier, - - - - \$4.50  
 Wood Track Carrier, - - - - 4.50  
**Special Discount for Cash.**

Fig. 1031 represents the new Clover Leaf Unloader, made of malleable iron throughout. Is heavy and substantially made. It is fitted with wide-open mouth to receive the fork pulley when approaching in any direction. Also has swiveling fork pulley, which relieves the carrier from all strain when drawing hay over a high beam or into a well-filled mow. The track wheels revolve on 7/8-inch turned steel axles. The rope sheaves have longer hub than any other make of carrier.

The lock is composed of three parts, and has no springs. The locking device grasps the fork pulley on either side and permits it to swing free.  
 Price..... \$4.50  
**Special Discount for Cash.**

## THE BALTIMORE SWIVEL REVERSIBLE DOUBLE ANGLE STEEL TRACK HAY CARRIER No. 2.

FOR FORK OR SLING.

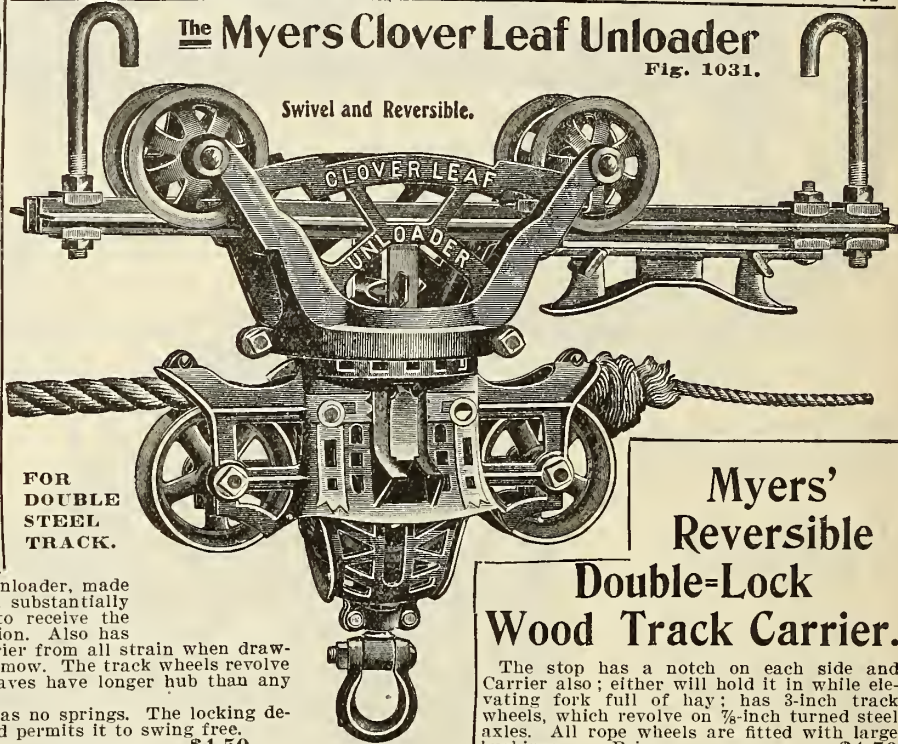
This car is easily and quickly reversed from the floor, contains no lugs or pins to break or wear out. Made heavier than cars ordinarily sold through this section.

Made entirely of malleable iron and high grade in every respect. Track travelers and rope pulley sheaves revolve on turned iron bushing. This car will not pass the trip-block while in operation.

Steel Track, Per Foot..... **12 1/2c.**

## The Myers Clover Leaf Unloader

Fig. 1031.



Swivel and Reversible.

FOR DOUBLE STEEL TRACK.

Myers' Reversible

## Double-Lock Wood Track Carrier.

The stop has a notch on each side and Carrier also; either will hold it in while elevating fork full of hay; has 3-inch track wheels, which revolve on 7/8-inch turned steel axles. All rope wheels are fitted with large bushings. Price..... \$4.50  
**Special Discount for Cash.**

## MANILA, SISAL AND COTTON ROPE.



Always on hand, the best Manila, Sisal and Cotton Rope, in coils or by the piece, at prices consistent with quality.

Prices on Application.

Approximate length of Manila and Sisal Rope, per pound: 3/4 diameter, 6 ft. to pound; 13-16 diameter, 5 ft. to pound; 7/8 diameter, 4 ft. 3 in. to pound.  
 We recommend 13-16 in. Rope for hay forks.

**BINDER TWINE.—Prices on Application.**

## FODDER YARN.

Have always on hand large quantities of the above.  
 Prices on Application.

## NEY'S WOOD TRACK SWIVEL REVERSIBLE CARRIER.

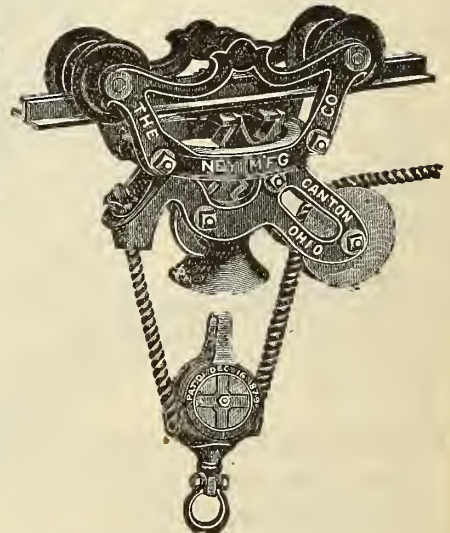
FOR 4x4 WOOD TRACK.

This Carrier is made entirely of malleable iron. All wheels revolve on turned iron bushings. Contains no springs, lugs or pins to break or wear out. Will not pass the trip-block while in operation.  
 Price..... \$4.50  
**Special Discount for Cash.**

## Ney's Swivel Reversible Carrier.

For Double-Angle Steel Track.

This Carrier cannot pass the bumper or trip-block while in operation, and is easily and quickly reversed from the floor. It is constructed entirely of malleable iron; travelers and sheaves revolve on turned steel bushings. Price \$4.50.  
**Special Discount for Cash.**



## HAY TOOLS AND FIXTURES.

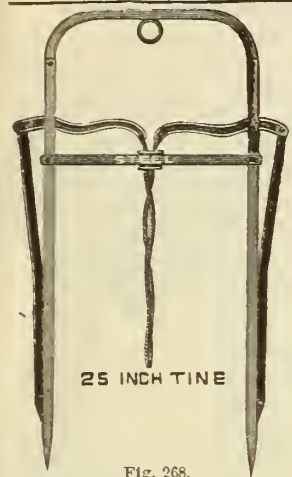


Fig. 268.

**Harris Double Harpoon Fork.**

Price..... \$1.00

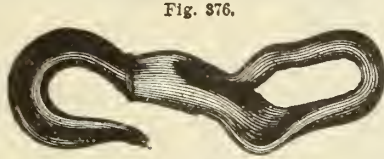
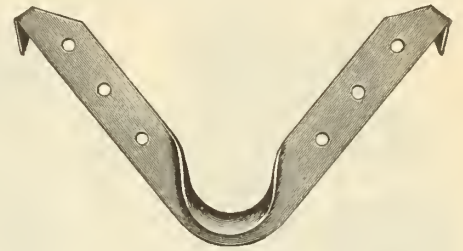


Fig. 376.

**SWIVEL ROPE HITCH**

Price..... 20c.



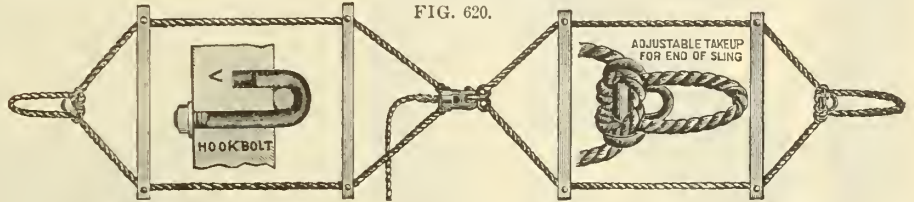
**RAFTER BRACKET.**—Fig. 436.  
PRICE.

Malleable..... 6c.  
Steel..... 6c.

### CENTRE TRIP ADJUSTABLE SLING.

4-FOOT STICK.

FIG. 620.



Price..... \$2.00

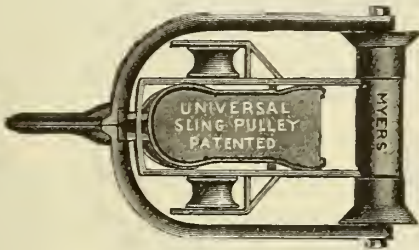
### GENUINE NELLIS FORK. Fig. 773



Price..... \$2.00

### UNIVERSAL SLING PULLEY.

Fig. 1052.



Price..... \$2.50

This Sling attachment is made for use with any make of hay carrier. It is so arranged that it cannot be misplaced on the load, as it can be used either side up and in connection with any shape of fork pulley.

#### PRICES.

- Fig. 268.—Harris Double Harpoon Fork.....\$1.00
- Fig. 773.—Genuine Nellis Harpoon Fork..... 2.00
- Fig. 376.—Swivel Rope Hitch..... .20
- Fig. 436.—Rafter Bracket, malleable..... .06
- Fig. 436.—Rafter Bracket, steel..... .06
- Fig. 620.—Center Trip Sling, with 4-foot sling stick..... 2.00
- Fig. 1052.—Universal Sling Pulley..... 2.50
- Fig. 267.—Hanging Hook for Wood Track..... .08
- Fig. 267.—Hanging Hook for Steel Track..... .08
- Fig. 266.—Floor Hook..... .08
- Fig. 796.—Knot-Passing Pulley. Has strong iron frame, swivel eye, with inside flange to protect rope. Has 6-inch sheave of thoroughly seasoned hard maple on hollow loose pin..... .30
- Fig. 466.—Wood Frame Pulley. An exceptionally good pulley, made of hardwood, well seasoned. Furnished in either hook or eye..... .25
- Fig. 692.—All-Iron Pulley. Has 5-inch sheave, swivel eye, well made, finished in baking japan..... .20
- Fig. 433.—Maple Sheave Pulley. Six-inch sheave, boiled in oil, cast frame, and holder pin..... .20
- Myers' Four-tine Grapple Hook..... 4.50
- Extra Trips or Stops for Cars..... .40
- Steel Track, per foot..... 12½c.
- Rafter Nails, pound..... .06
- Roofing Nails, pound..... .06

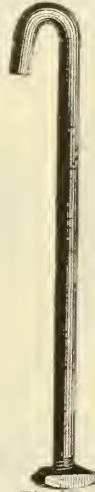


Fig. 267.

WOOD

#### TRACK HOOK.

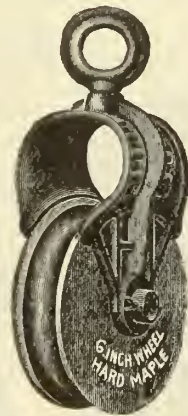
Wood..... 8c.  
Steel..... 8c.



Fig. 266.

#### FLOOR HOOK.

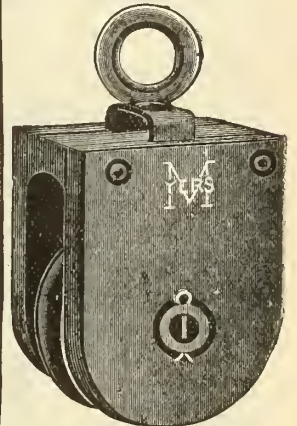
Price..... 20c.



**Cast Frame Knot Passing Pulley.**

Fig. 796.

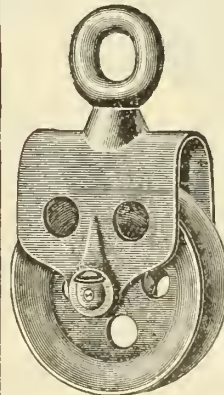
Price..... 30c.



**Wood Frame Pulley**

Fig. 466.

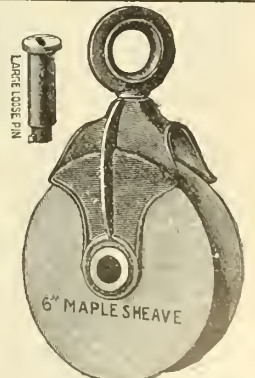
Price, with eye..... 25c.  
Price, with hook..... 25c.



**All-Iron Pulley.**

Fig. 692.

Price..... 20c.



**Maple Sheave Pulley**

Fig. 433.

Price..... 20c.

## SURE GRIP STEEL TRACK.



Factory List.     Retail.  
SURE GRIP TRACK, Per Foot. . . . .     11c.     6½c.

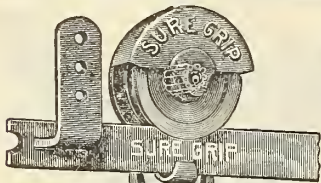


Fig. 991



Fig. 989.

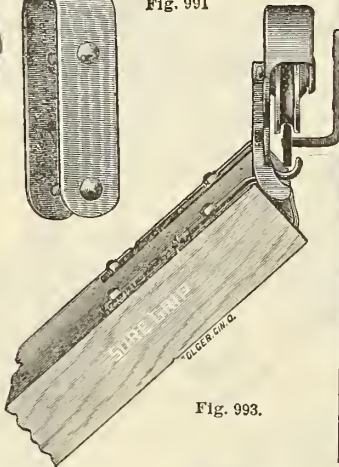
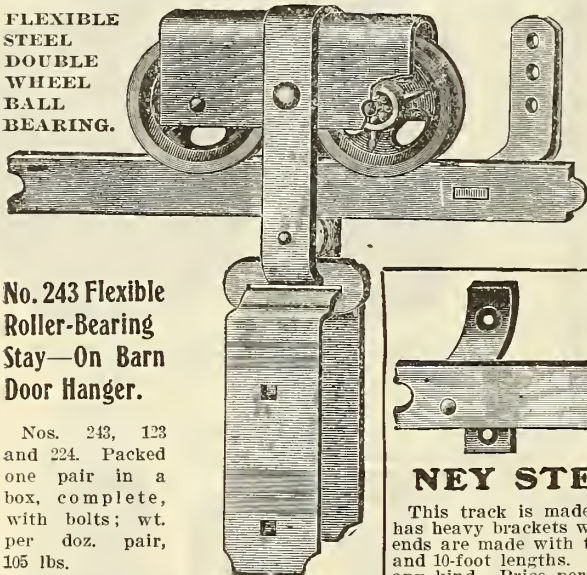


Fig. 993.

Factory     Retail  
List.     per  
pair.

Sure Grip Hangers, Per Doz. Pairs. \$16.00     \$1.00

**FLEXIBLE  
STEEL  
DOUBLE  
WHEEL  
BALL  
BEARING.**



**No. 243 Flexible  
Roller-Bearing  
Stay—On Barn  
Door Hanger.**

Nos. 243, 123 and 224. Packed one pair in a box, complete, with bolts; wt. per doz. pair, 105 lbs.

Runs only on 1¼x3-16 special track. Two wheels to each hanger. Weight of door is distributed at four points on track. This is a decided advantage over the single-wheel hangers, as it decreases the strain one-half. A grooved pulley engages lower edge of track, and it is impossible for hanger to get off.

No. 243—Double Wheel Hanger, per pair, \$1.00.  
No. 207—Track for same, per foot, 6½c.

## TROLLEY HANGER.

As described on unclassified page 159.

No. 123—Trolley Hanger, per pair.....	\$1.50
No. 224—Trolley Hanger, per pair.....	2.00
No. 131—Trolley Hanger track, per foot.....	.12
No. 52—Trolley Hanger brackets, each.....	.12

Price Trolley Hangers includes one left-end bracket No. 50, one right-end bracket No. 51, and one center bracket No. 52.

## The Ashland Sure Grip Flexible Door Hangers.

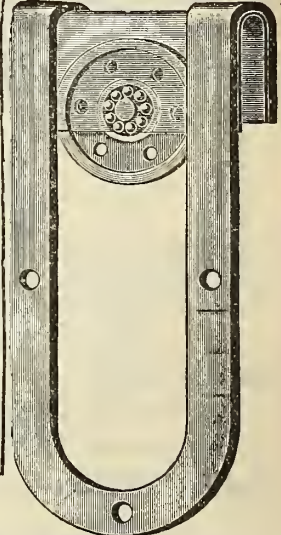
The Ashland Sure Grip Patented Flexible Barn Door Hanger is constructed with a lug extending upward around the bottom of the track (see Fig. 991), which locks it securely and prevents throwing off under any circumstances.

The frame is malleable iron with hood covering the wheel to prevent snow or sleet from accumulating thereon. The wheel is 3¼ inches in diameter with a wide groove, and revolves on hard steel rollers surrounding a large steel axle securely held in position by a cotter and easily removed.

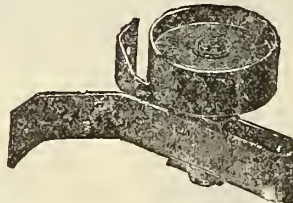
The flexible feature.—The door can be swung out from the bottom at any angle (see cut, Fig. 993). The flexible feature allows the top of the door to move away from the building at least one-half an inch. The advantage of this is that all doors naturally warp or the boards on the side of the barn become cupped up, thus making an uneven surface, in which case a door mounted with the ordinary hanger could not be moved.

The track is heavy special high carbon stiff steel, 3-16x1¼ inches, supported by a heavy steel bracket with square shoulder mortised through the track every 17 inches, thus making a very substantial fastening and adds materially to the stiffness of the track. The track can be placed with either edge up.

## New Anti-Friction Barn-Door Hanger No. 2.



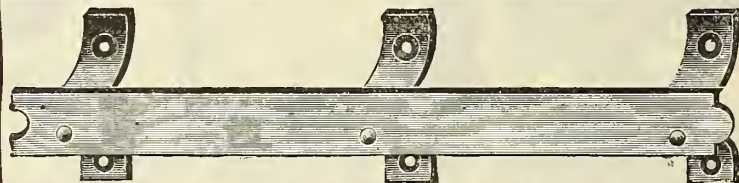
## Stay Rollers.



For use on Barn Door Hangers.  
Price, each.....15c.

This hanger is anti-friction, containing roller bearings, which cause the wheel to roll easily and prevent wear. The frame is made of special open-hearth steel, and the strength is fully sufficient for the heaviest doors, and has hood protecting the wheel from snow and ice. The wheel is 4 inches in diameter, and of standard tread; therefore can be used on other tracks.

PRICE  
PER PAIR  
60c.



## NEW STEEL BARN-DOOR TRACK.

This track is made of Special Carbon Open-Hearth Steel, 1x3-16 stock, and has heavy brackets well and substantially riveted to it at every 12 inches. The ends are made with tongue and groove to match. The track is made in 4, 6, 8 and 10-foot lengths. It is easily erected, and requires no roofing or covering of any kind. Price per 100 feet. \$5.00.

## THE CANTON HOIST.

Can be used to advantage in factories of all kinds, foundries, quarries, mills and warehouses, also by contractors, stone masons, carpenters and all classes of mechanics, as well as farmers. They are indispensable on the farm.

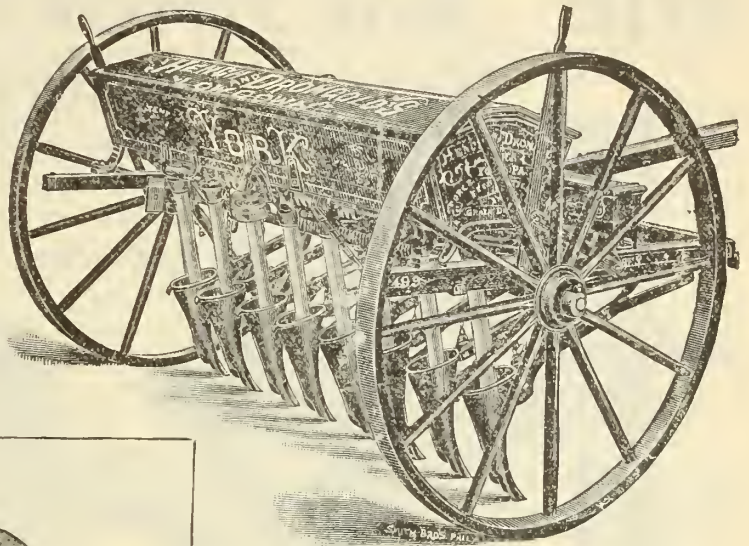
No. 33—2 sheaves above, 2 sheaves below; for ½ to ¾ rope; capacity, 1500 lbs. One man can lift 500 lbs. 4 in. sheaves. Factory list, \$6.00. Our retail price, \$4.00.

No. 37—2 sheaves above, 2 sheaves below; for ¼ in. rope; capacity, 800 lbs. One man can lift 400 lbs. 3 in. sheaves. Factory list, \$4.00. Our retail price, \$3.00. Rope not included in price.



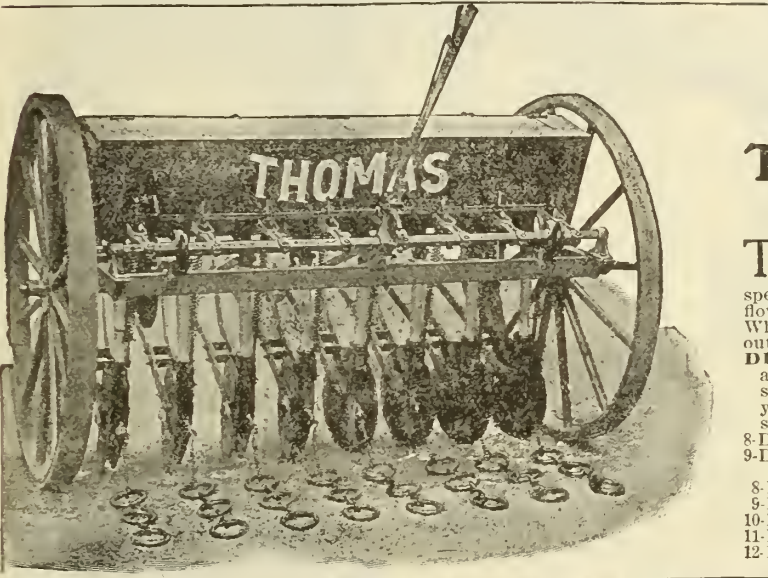
## The York Grain and Fertilizer Drill.

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.....	\$65.00
9-Hoe Pin.....	68.00
10-Hoe Pin.....	71.00
11-Hoe Pin.....	74.00
8-Hoe Spring.....	70.00
9-Hoe Spring.....	73.00
10-Hoe Spring.....	76.00
11-Hoe Spring.....	79.00

**SPECIAL PRICES FOR CASH.**



## The Thomas Disc Fertilizer Drill.

THE Celebrated "Marks" Fertilizer Feed is used on this Drill. The device for changing quantity is entirely new and has been thoroughly tested, and consists of a simple speed gear direct and adjustable mounted on the axle. The flow is stopped automatically when the discs are raised. When spotting shocks in sowing corn ground, can be thrown out of gear without raising the discs.

**DISC BOOT.**—Our Delivery Disc Boot is specially designed and very complete, and prevents choking or clogging in any soil. There is a chilled iron spindle, which will last for years, if it will ever wear out. The scrapers for discs are of spring steel, and are adjustable.

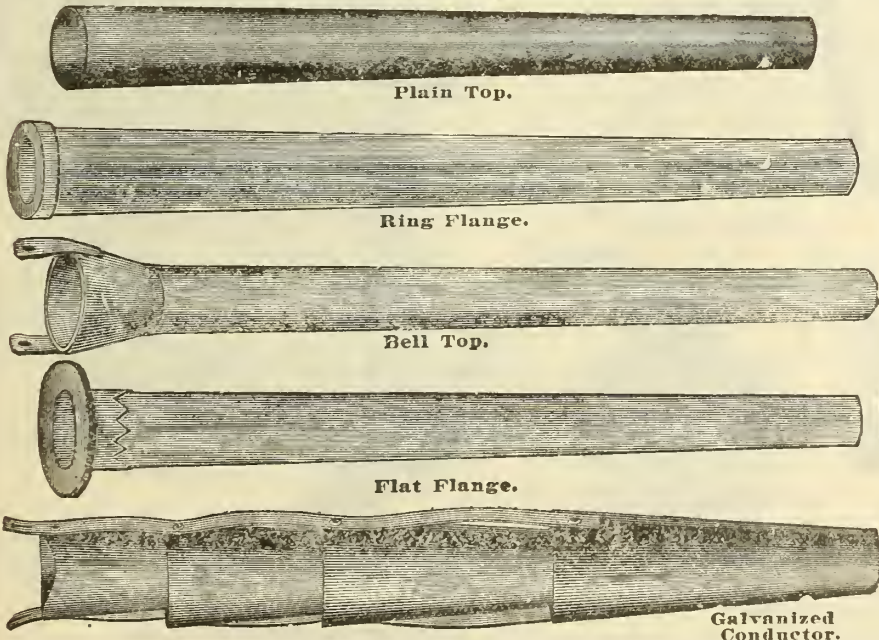
8-Disc Drill.....	\$75.00	10-Disc Drill.....	\$85.00
9-Disc Drill.....	80.00	11-Disc Drill.....	90.00

**SPECIAL PRICES FOR CASH.**

8-Hoe Pin.....	\$65.00	8-Hoe Spring.....	\$70.00
9-Hoe Pin.....	70.00	9-Hoe Spring.....	75.00
10-Hoe Pin.....	75.00	10-Hoe Spring.....	80.00
11-Hoe Pin.....	80.00	11-Hoe Spring.....	85.00
12-Hoe Pin.....	85.00	12-Hoe Spring.....	90.00

**SPECIAL PRICES FOR CASH.**

### GRAIN DRILL TUBES.



Plain Top.

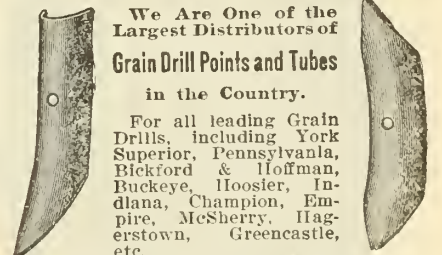
Ring Flange.

Bell Top.

Flat Flange.

**Galvanized Conductor.**

### Grain Drill Points.



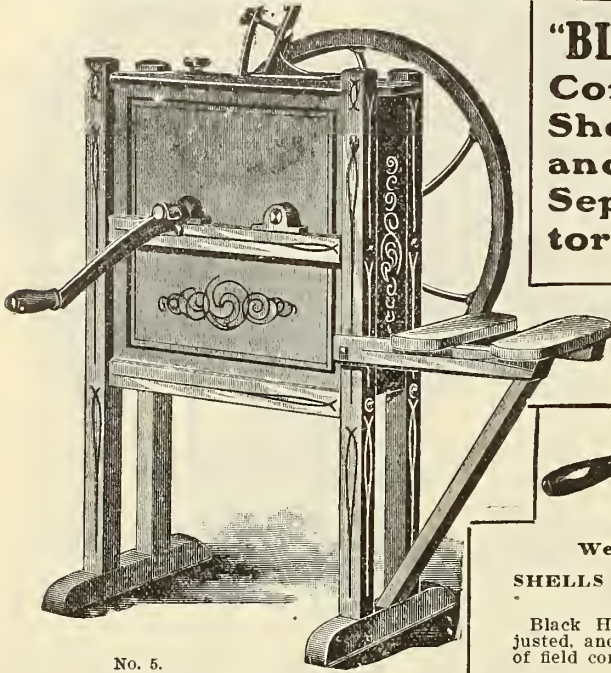
We Are One of the Largest Distributors of Grain Drill Points and Tubes in the Country.

For all leading Grain Drills, including York Superior, Pennsylvania, Bickford & Hoffman, Buckeye, Hoosier, Indiana, Champion, Empire, McSherry, Hagerstown, Greencastle, etc.

**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. If our customers will carefully comply with the foregoing directions it will be a mutual saving of an immense amount of time.  
Price, Points, each.....10c.

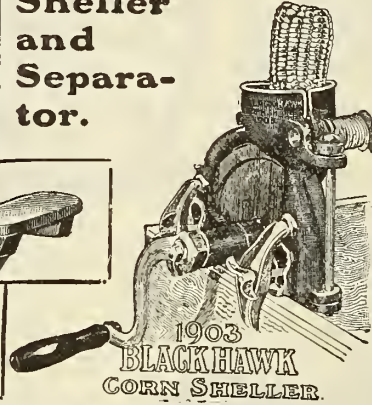
**IN ORDERING TUBES** it is always best to send an old Tube as a sample. If that cannot be done, be sure to state name of Drill, the kind of Tube, whether with ring flange or plain top, or special bell-shaped top with straps, and by all means the length and diameter at top and bottom.  
Price, Plain Tubes, each.....20c.  
Price, Flat Top Tubes, each.....25c.  
Price, Flat or Ring Flange Tubes, each.....25c.  
Price, Galvanized Conductors, each.....40c.

THE BALTIMORE SHELLERS.



No. 5.

**"BLACK HAWK"**  
Corn  
Sheller  
and  
Separa-  
tor.

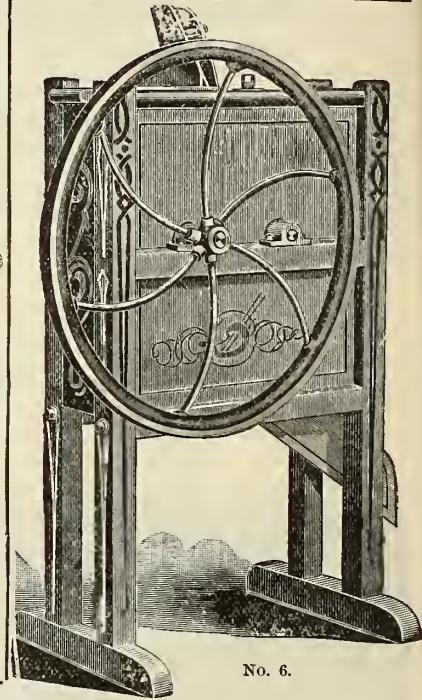


1903  
**BLACKHAWK**  
CORN SHELLER.

Weight, 14 Pounds.

SHELLS FAST, CLEAN, AND  
EASILY.

Black Hawk is simple, easily ad-  
justed, and will shell clean all kinds  
of field corn. Price, \$2.00.



No. 6.

Capacity, 125 bushels per day; single spout; left  
hand. Corn and cobs separated.  
Without basket holder.....\$6.00  
Basket holder extra......60  
Special Discount for Cash.

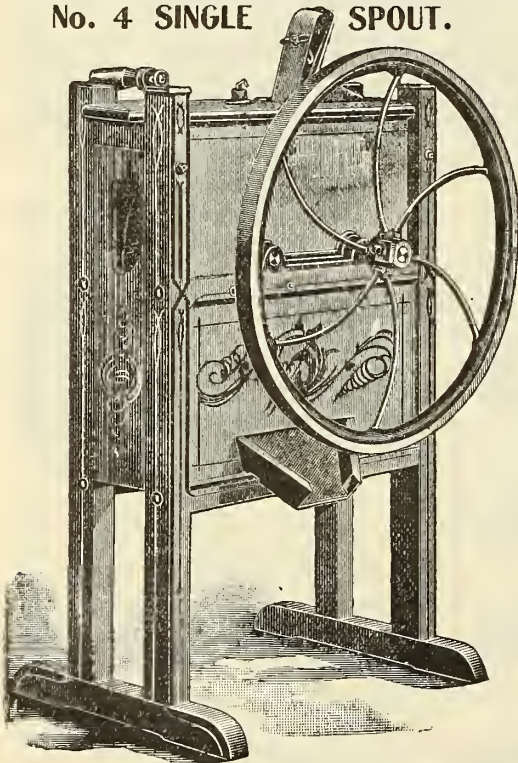
**"Easy" Corn  
Shellers.**

SIMPLE, CHEAP.  
STRONG,  
CONVENIENT.

Weight, 15 Pounds  
Price, \$1.25.

Runs shelled corn and cobs together. Capacity, 125 bush-  
els per day.  
Price, Plain Sheller.....\$5.50  
Special Discount for Cash.

**No. 4 SINGLE SPOUT.**



Screens corn; side delivery; light-running; strong  
steel shafts. Capacity, 125 bushels a day.  
Plain.....\$6.50  
Special Discount for Cash.

**Red Chief  
Corn Sheller.**

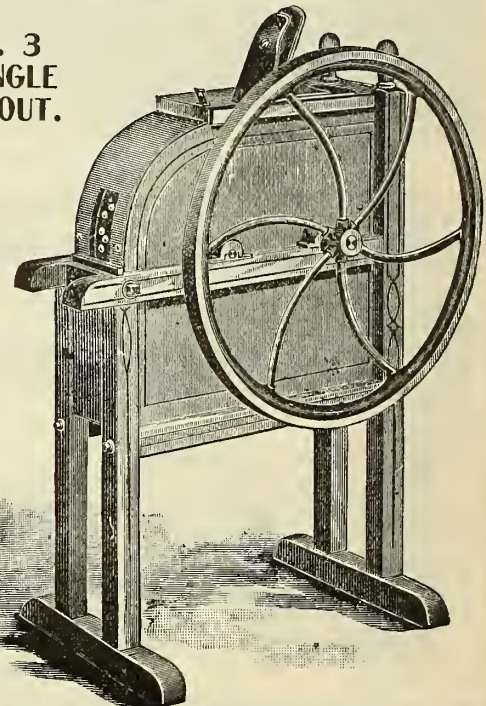
A first-class Sheller.  
Handy, convenient—can be  
fastened to box or tub.  
Price.....\$1.75

**Pony Corn  
Sheller.**



Does perfect work.  
Price.....\$1.50

**No. 3  
SINGLE  
SPOUT.**

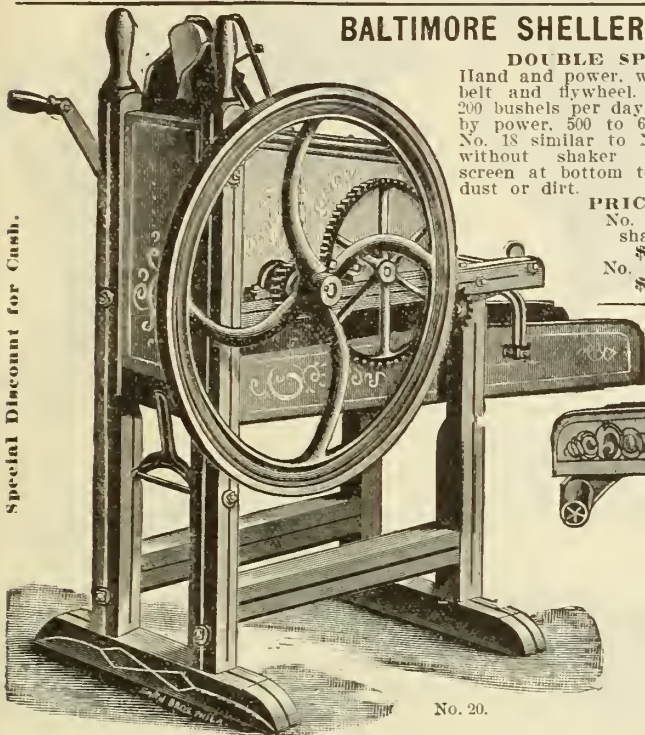


Separates corn and cob. Fan will clean corn for market.  
Corn discharged beneath Sheller, cobs at end. Easily ad-  
justed for large or small ears. Capacity, 125 bushels a day.  
Plain.....\$6.50  
With fan.....7.00  
Special Discount for Cash.



## CORN SHELLERS AND FANNING MILLS

Special Discount for Cash.

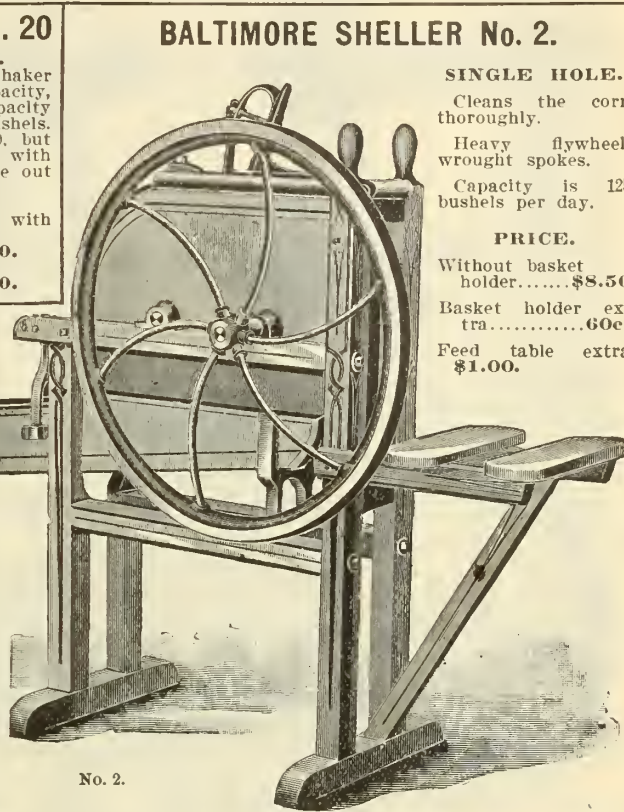


**BALTIMORE SHELLER No. 20**

**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.

**PRICE—**  
No. 20, with shaker, \$14.00.  
No. 18, \$12.50.

No. 20.



**BALTIMORE SHELLER No. 2.**

**SINGLE HOLE.**  
Cleans the corn thoroughly.

Heavy flywheel, wrought spokes.

Capacity is 125 bushels per day.

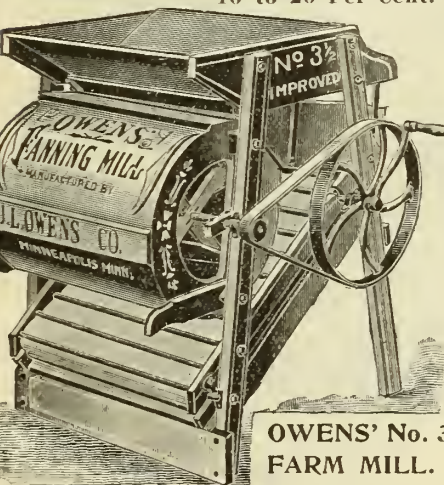
**PRICE.**

Without basket holder.....\$8.50  
Basket holder extra.....60c.  
Feed table extra \$1.00.

No. 2.

### OWENS' WHEAT CLEANER AND COCKLE SEPARATOR NO MORE COCKLE.

The Owens Takes Out More Cockle and Foul Seeds Than Any Other Fan Made. Increases Price of Grain 10 to 20 Per Cent.



It has given perfect satisfaction wherever tried. It is a perfect cleaner of oats, barley, peas, beans, clover, timothy, millet, alfalfa, and for removing cheat and cockle out of the wheat.

It will separate mustard and all foul seeds from flax, etc.

We furnish the Owens Automatic Force Feeder with all mills.

All of these mills are end shake, with the exception of No. 20, which is side shake.

**OWENS' No. 3 1/2 FARM MILL.**

Capacity, 30 to 40 bushels per hour. This mill separates all foul seeds from wheat, oats and barley, especially mustard. Will also clean flax from all foul seeds, as well as clean all kinds of grass seed. Has end shake. Price.....\$18.50

**Special Price for Cash.**

**OWENS' No. 3 1/2 FARM MILL.**

Capacity, 40 to 60 bushels per hour. Has all the merits of the No. 3, but has greater capacity and easier to operate, owing to its being made lower. It will also separate oats from wheat better than any other make of mills. Has end shake. Price.....\$21.50

**Special Price for Cash.**

**OWENS' No. 1 FARM MILL.**

Seed, grain and bean cleaner, separator of cockle, buckwheat and mustard. Capacity, 40 to 50 bushels per hour. Price.....\$28.50

**Special Price for Cash.**

**OWENS' No. 5 FARM MILL.**

Capacity, 60 to 80 bushels per hour. This mill is larger than No. 3 and requires more power, but will do same class of work. Especially recommended for cleaning large crops of wheat or other grain.

Price.....\$24.50

**Special Price for Cash.**

**OWENS' No. 20 SIDE SHAKE FARM MILL.**

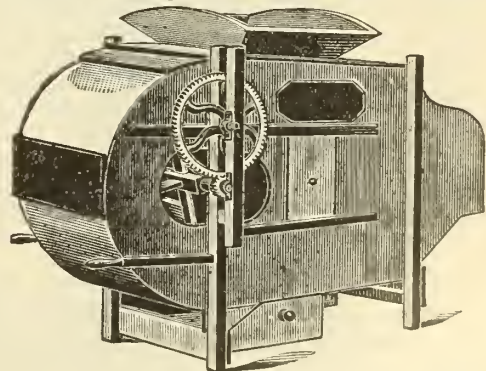
This mill has all the good points of No. 3, but is much wider, and consequently has greater capacity. Has side shake. It cannot be excelled for cleaning seed wheat, and is used more especially for warehouse purposes. It has the slatted canvas principle of the other styles. Capacity, 80 to 100 bushels per hour.

Price.....\$27.50

**Special Price for Cash.**

### The Baltimore Improved Grain Fan.

**GOOD  
GENERAL  
PURPOSE  
MILL**



**Side Shake**

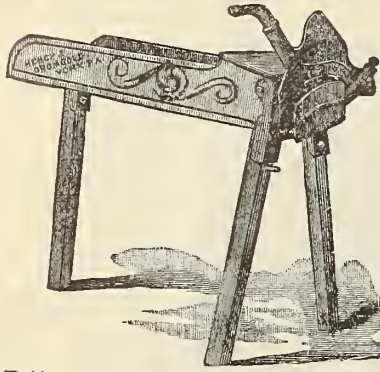
Will clean from 60 to 100 bushels per hour. Made of best material and finished in a neat and tasty manner.

Price.....\$20.00

**Special Price for Cash.**

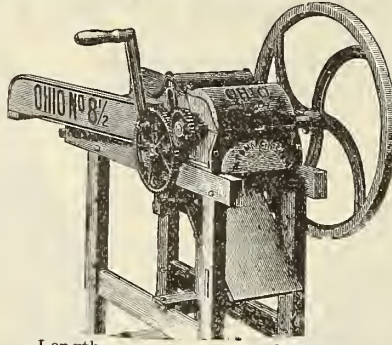
**Maryland Lever Cutter.** "OHIO" HAND FEED CUTTER

Strong, Cheap and Durable.



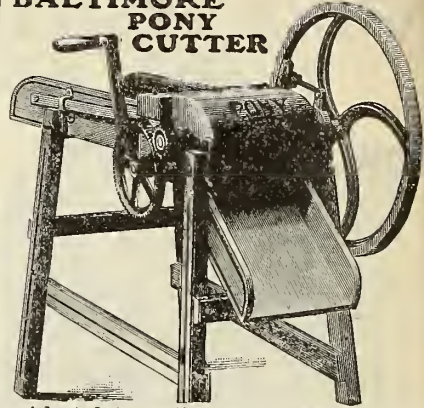
Knife.....11 inch.  
Weight, K. D......55 pounds.  
Price.....\$3.50

**"OHIO" HAND FEED CUTTER**



Length of Knives, Inches.	Number of Knives.	Length of Cut, Inches.	Price.
8½	2	¼, ⅜, ¾,	\$20.00
10½	2	¾, 1, 1¼,	25.00
Less 30 per cent. retail.			

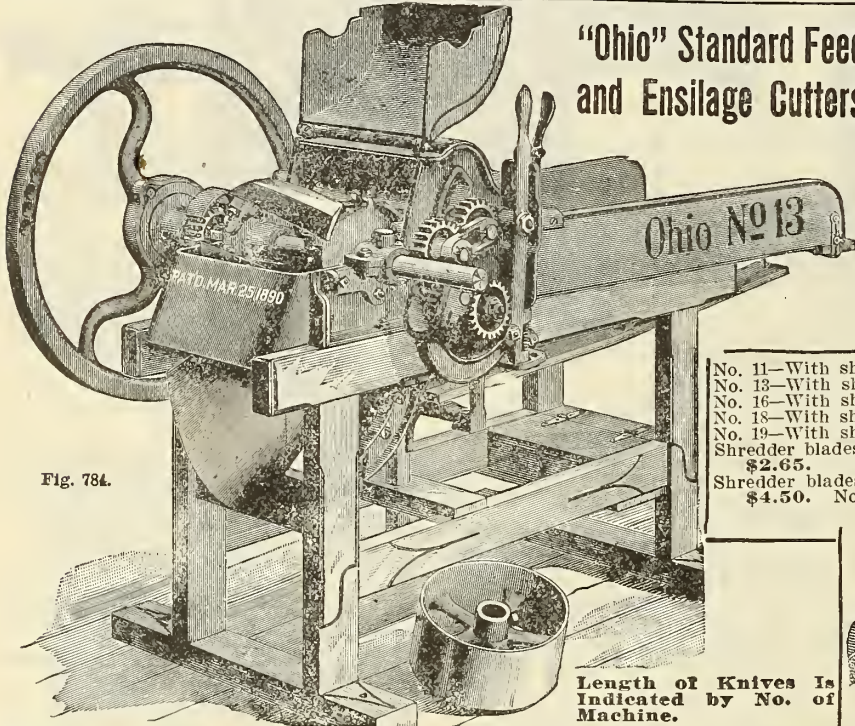
**BALTIMORE PONY CUTTER**



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.

One knife, 11¼ inches long.  
Retail price.....\$10.00  
**Special Discount for Cash.**



**"Ohio" Standard Feed and Ensilage Cutters**

Fig. 78A.

Length of Knives Is Indicated by No. of Machine.

No. 9—With safety flywheel and pulley; two knives.....	\$35.00
9—With safety flywheel and pulley; four knives.....	40.00
When furnished with extended knife shaft to place flywheel or pulley on either side, extra.....	2.00
11—With two knives, 11 inches long, four lengths cut.....	40.00
11—With four knives, 11 inches long, four lengths cut.....	45.00
Extra gears to cut four inches long.....	3.00
Shredder blades, interchangeable, with knives, each.....	2.65
13—With two knives, 13 inches long, four lengths cut.....	60.00
13—With four knives, 13 inches long, four lengths cut, weight 560 lbs.....	65.00
Extra gears to cut four inches long, with two knives.....	4.00
Shredder blades, each.....	3.00
16—With four knives, 16 inches long, four lengths cut; weight, 620 lbs.....	90.00
Extra gears to cut four inches long, with two knives.....	4.00
Shredder blades, each.....	3.75
18—With four knives, 18 inches long, four lengths cut; weight, 700 lbs.....	120.00
Extra gears to cut four inches long, with two knives.....	4.00
Shredder blades, each.....	4.50

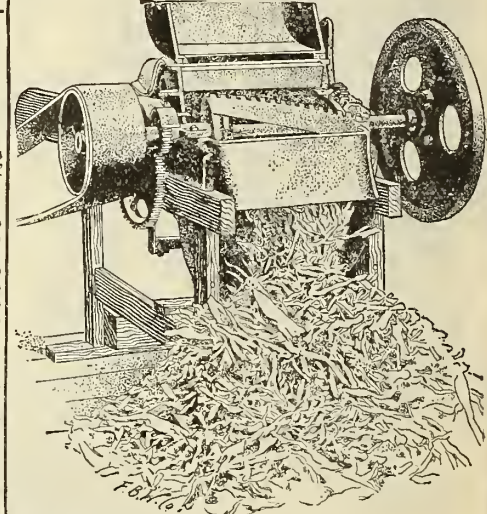
**Less 30 Per Cent. Retail.**

**New "Ohio" Shredder**

Our new shredder blade successfully reduces the fodder to the proper condition with the same power, speed and capacity as the regular Ohio Cutter. Interchangeable on all sizes with the knives. Nothing extra but the shredder blades. Least cost, best results. Does not pulverize the leaves like saw-blade or tooth-shredders, but splits and tears the stalks perfectly. The greatest saving in this new shredder is that perfect work can be done running at normal speed (600 to 700 revolutions), which means that the same power that runs the cutter will run the shredder.

No. 11—With shredder blades only.....	\$41.75	Four Blades. \$48.50
No. 13—With shredder blades only.....	62.00	69.00
No. 16—With shredder blades only.....	87.50	95.00
No. 18—With shredder blades only.....	117.00	126.00
No. 19—With shredder blades only.....	196.75	206.50
Shredder blades, for No. 11, which interchange with knives, each	\$2.65.	
Shredder blades—For No. 13, \$3.00. No. 16, \$3.75. No. 18, \$4.50. No. 19, \$4.85 each.		

**Less 30 Per Cent. Retail.**



**POWER AND SPEED REQUIRED TO RUN THE VARIOUS ENSILAGE MACHINES.**

SPEED CUTTERS ALONE.		BLOWERS AND CUTTERS.		No. CARRIERS AND CUTTERS.	
No.	Revolutions.	No.	Revolutions.	No.	Speed.
9-1 H. P.	300 to 600	14-10 H. P.	650 to 700	13-4 to 6 H. P.	450 to 600
11-1 to 2 H. P.	300 to 600	17-10 to 12 H. P.	650 to 700	16-6 to 8 H. P.	450 to 600
13-2 to 4 H. P.	450 to 600	19-16 to 20 H. P.	600 to 750	18-6 to 10 H. P.	450 to 600
16-2 to 4 H. P.	450 to 600			19-8 to 12 H. P.	600
18-1 to 6 H. P.	450 to 600				

The power here given on Carriers is applicable when cutting green ensilage.

## "Ohio" Self-Feed Ensilage Cutter with Direct Blast Blower Elevator.

The principal points to be observed in a power cutter and blower are capacity, strength, construction and durability. These are all found combined in the Ohio Monarch. The same can be said of the whole line. We present for the first time a new line of Silage Cutters and Blowers, the "Ohio" Monarch, Nos. 14, 17 and 19. The machines are built on lines similar to the No. 18 as made last year, but with improved front hood, the Nos. 14 and 17 being entirely new to meet the demand for medium-sized but strong and powerful machines. The blower is the regular "Ohio" Blower, and the entire machine is heavier and stronger than the well and favorably known "Ohio" Standard machines.

The blower elevator is the same as used so successfully last year. The reduced diameter of the fan case fully demonstrated its superiority, and resulted in the saving of much power, a very important point. As compared with the "Ohio" Standard machines, there is more weight and capacity all through. The frame is heavier and well braced. The knife shaft is steel, 1 1/4 inches in diameter. The knife heads are very much heavier, the cylinder larger in diameter, and there are four strong bolts in each knife in addition to the adjusting set screws at the back. The raise of the feed rolls is greater, thus giving more throat capacity and better feeding qualities. The conveyor beneath the knives carries the cut silage into the fan case. A wire screen covers the outer end of the conveyor case.

The traveling feed table is the full width of the machine and 8 feet long, taking a bundle of corn readily. The gearing is very strong, and is positively guaranteed against breakage when cutting corn.

The new patent-applied-for shredder blade should be run at 600 to 700 revolutions per minute while shredding, and is a notable advance in construction, enabling the operator to shred dry fodder or cornstalks with the blower. There is a great saving in power also as compared with the tooth or saw-blade type of shredder, besides saving the leaves in much better condition. No. 14, capacity 12 to 15 tons per hour, 10-horse steam-power; No. 17, capacity 15 to 20 tons per hour, 10 to 12-horse steam-power; No. 19, capacity 20 to 25 tons per hour, 12 to 14-horse steam-power. Speed, 650 to 700 revolutions per minute. Pulley, 12x8 inches, leather covered.

### SIZES AND PRICES.

No. 14 "Monarch" Cutter, four 14-inch knives, cuts 1/2, 3/4 and 1 inch, and Blower complete with new distributor for top of pipe.....	\$175.00
No. 17 "Monarch" Cutter, four 17-inch knives, cuts 1/2, 3/4 and 1 inch, and Blower complete with new distributor for top of pipe.....	225.00
No. 19 "Monarch" Cutter, four 19-inch knives, cuts 1/2, 3/4 and 1 inch, and Blower complete with new distributor for top of pipe.....	265.00
10-inch galvanized pipe in 4, 6, 8 and 10-foot lengths for No. 14, No. 17 or No. 19 Cutter, per foot.....	.90
Extra gears to cut 4 inches long with two knives, Nos. 14, 17, 19.....	5.50
Shredder blades for No. 14, \$3.50; No. 17, \$4.25; No. 19, \$4.85 each.	
Less 30 Per Cent. Retail.	

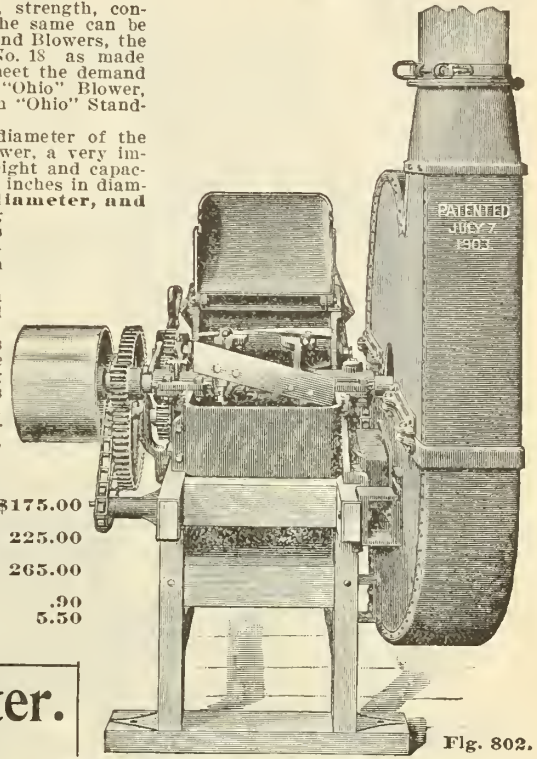


Fig. 802.

## "Ohio" Self-Feed Ensilage Cutter.

SHOWING NEW METAL BUCKET SWIVEL CARRIER.

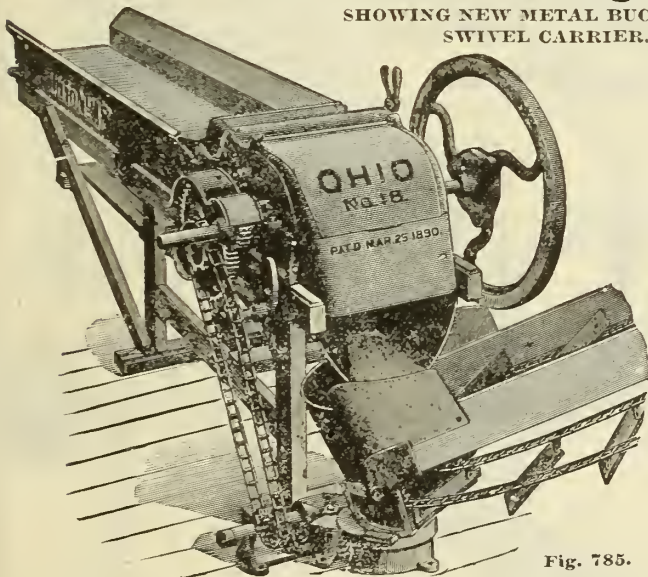


Fig. 785.

### SIZES AND PRICES.

No.	Description	Price.
13-	"Ohio" Self-feed Cutter.....	\$95.00
16-	"Ohio" Self-feed Cutter.....	120.00
18-	"Ohio" Self-feed Cutter.....	155.00
19-	"Monarch" Self-feed Cutter.....	200.00
20-	"Ohio" Self-feed Cutter.....	250.00
24-	"Ohio" Self-feed Cutter.....	300.00
	Reversible Carrier, 12 feet long, for No. 11.....	33.75
	Straight Carrier, 12 feet long, for No. 11.....	30.25
	Straight Carrier, 12 feet long, for Nos. 13, 16 or 18.....	33.50
	Straight Carrier, 12 feet long, for Nos. 19 or 20.....	40.00
	Straight Carrier, 12 feet long, for No. 24.....	45.00
	Swivel Carrier, 12 feet long, for Nos. 13, 16 or 18.....	45.00
	Swivel Carrier, 12 feet long, for Nos. 19 and 20.....	55.00
	Swivel Carrier, 12 feet long, for No. 24.....	60.00
	Extra length per foot for Nos. 11, 13, 16 and 18.....	1.70
	Extra length per foot for Nos. 19, 20 and 24.....	2.25
	1903 Shredder Blades for No. 13, \$3.00; 16, \$3.75; 18, \$4.50 each.	
	Wood cover, with hooks and eyes to fasten, Nos. 20-24, a foot, 35c.	
Less 30 Per Cent. Retail.		

## Boiler or Steam Feed Cooker.

### SIZES AND PRICES.

No. 1-19 in. shell; height over all, 54 in.; 9 flues; 325 lbs. \$40.00  
 No. 2-19 in. shell; height over all, 58 in.; 13 flues; 370 lbs. \$45.00.

Price includes two gauge cocks, blow-off cock, pump, safety valve, 2 ft. 6 in. of suction hose, 3 ft. steam pipe, with valve to convey steam to barrel or vat.

**Special Price for Cash.**

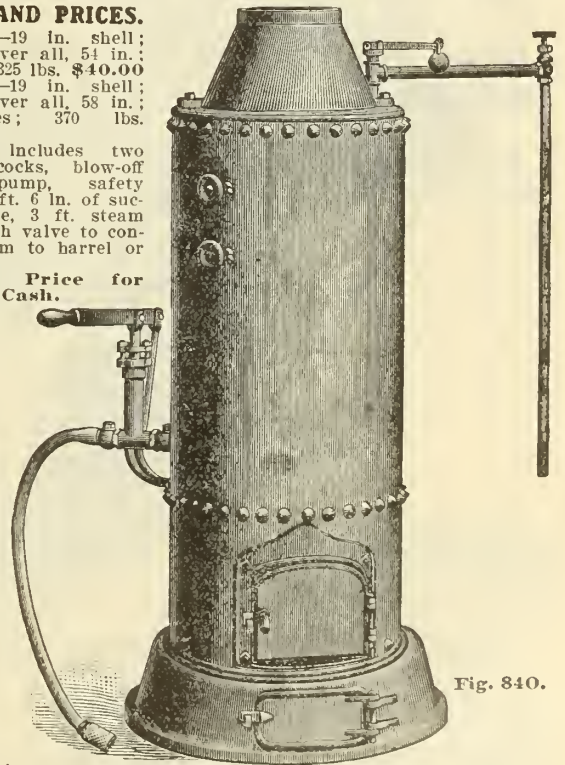


Fig. 840.

Steel boiler with lap-welded flues, well riveted and calked, 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.

## APPLETON CORN HUSKER.

The husking device of this machine is simply perfect. We know that no other can equal it, and firmly believe that no machine-husking device will ever be produced on any different principle that will under equal conditions husk so cleanly, without clogging, shelling so little corn and consuming so little power. Other huskers depend on large pegs, screws or similar devices to take off the husks. They take hold of the ears too fiercely. The large pegs often dig into an ear and shell a row clear around; this cannot occur on the Appleton. The husking rolls, built on the only correct principle, and different from all others, positively do not and cannot clog.

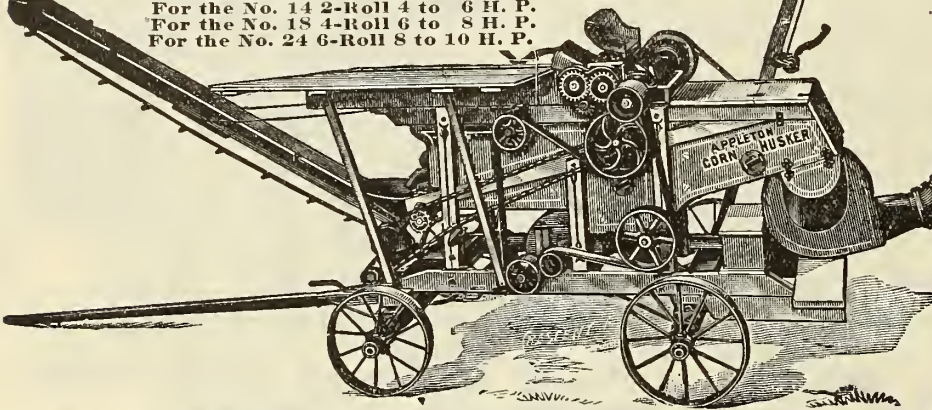
The Appleton husking rolls are positively the only ones which will not and absolutely cannot "wind up." The knives, running the entire length of each alternate roll in the Appleton Husker, entirely overcome this objectionable feature common to all other huskers, for any husk starting to wind will be instantly cut off.

Built in three sizes—the No. 14 2-roll machine, the No. 18 4-roll machine and the No. 24 6-roll machine. Furnished with or without truck.

Cut shows how husking rolls, shaker shaft and cleaner fan are driven by a single heavy belt from main shaft. The only sprocket chain used is for driving the swivel ear corn carrier.

- No. 14—Two-Roll Husker, with cutter head, swivel, ear corn carrier, 20 feet blower, with belt and wheel mounting.....\$210.00
- No. 14—Husker with shredder head instead of cutter head..... 225.00
- No. 14—Husker with both cutter and shredder head..... 235.00
- No. 18—Four-Roll Husker, with cutter head, swivel, ear corn carrier, 20 feet blower with belt and wheel mounting..... 275.00
- No. 18—Husker with shredder head instead of cutter head..... 290.00
- No. 18—Husker with both shredder and cutter head..... 305.00
- No. 24—Six-Roll Husker, with cutter head, swivel, ear corn carrier, 20 feet blower, with belt and wheel mounting..... 375.00
- No. 24—Husker with shredder head instead of cutter head..... 390.00
- No. 24—Husker with both cutter and shredder head..... 415.00
- Blower pipe extra length, per foot..... 1.10

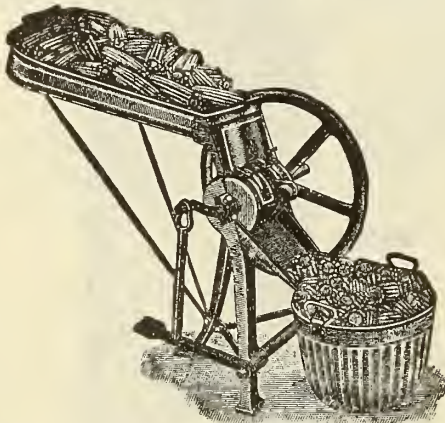
We recommend with cutter head.  
 For the No. 14 2-Roll 4 to 6 H. P.  
 For the No. 18 4-Roll 6 to 8 H. P.  
 For the No. 24 6-Roll 8 to 10 H. P.



An exclusive feature of this swivel blower is that there are no abrupt angles which in other blowers cause clogging—a thing impossible in the Appleton. In addition, the convenience of having your fodder delivered at any desired point is a very valuable and convenient feature. The hood at end of blower pipe (see cut) can be turned in any direction; both pipe and hood are galvanized.

**Swivel ear carrier.** Another exclusive feature, in that it is the only carrier that can be run straight out from the husking rolls at any desired angle, or to either side of machine. The angle of elevation is adjustable so that corn can be elevated into a wagon box or crib.

## Little Giant Corn Cutter.

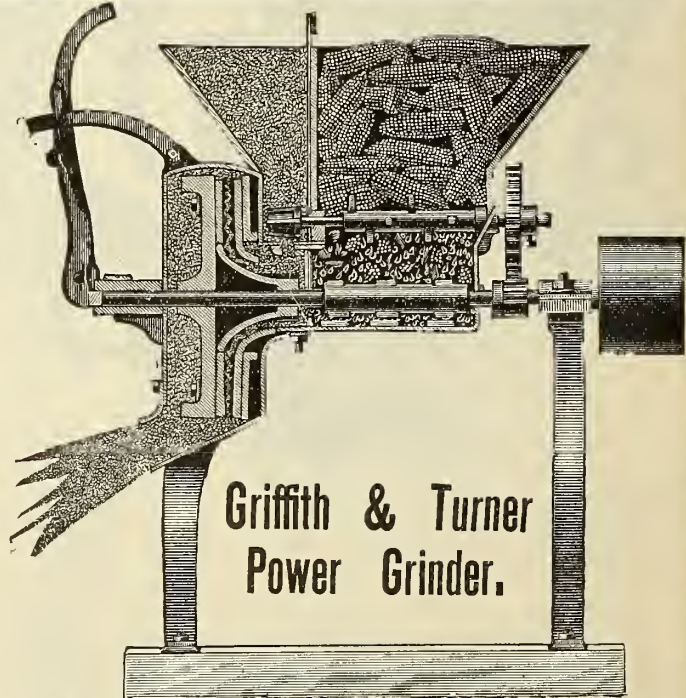


Needed by every farmer who has cattle to feed. Can be operated either by foot power or attached to engine or shafting by the addition of a pulley on shaft projecting from fly-wheel. Will cut from 30 to 40 bushels of corn per hour, and can be operated by man or boy. The four steel knives fastened to malleable head have a shearing cut, and will easily cut pieces from 1/4 to 2 inches long; weight, 165 pounds.

Complete without pulley, \$18.00.

We recommend a speed of about 125 revolutions per minute. If wood-split pulley is wanted add following net prices.

Diameter, Inches.	Face, Inches.	Price.
6.....	3.....	\$1.75
8.....	3.....	1.88
10.....	3.....	2.06
12.....	3.....	2.19
14.....	3.....	2.88
16.....	3.....	2.50
18.....	3.....	2.75
20.....	3.....	3.00
22.....	3.....	3.25
24.....	3.....	3.44



## Griffith & Turner Power Grinder.

**No. 2, Large Grinder.**—Burr 14 inches in diameter. Capacity 30 to 50 bushels per hour, requiring 12 to 16 horse-power. Engine should be run 800 to 1200 revolutions per minute. Weight, 450 pounds.....\$45.00

**No. 1, Medium Grinder.**—Burr 12 inches in diameter. Capacity 20 to 40 bushels per hour, requiring 8 to 10 horse-power. Engine should be run 800 to 1200 revolutions per minute. Weight, 400 pounds.....\$40.00

Both these machines will grind successfully ear corn and small grain at same time. **Special Discount for Cash.**

## THE SCIENTIFIC CORN AND COB MILLS.

### STYLE H.—No. 1.

Has double breakers, partition hopper, pin breaker and safety bottom. It grinds ear corn or any and all kinds of small grain separately, or any two or more mixed, for feed.

**GRINDING PLATES.**—10 inches in diameter, and run only in one direction—to the right. Can furnish left hand if desired. Will furnish an extra set free in this style of mill, but in no other, as all others are reversible.

**POWER.**—4 to 8 horse to sweep power, or 4 to 6 horse steam power.

**PULLEY.**—Furnish an 8-inch diameter, 6½-inch face pulley, unless special size is ordered, which can be furnished without extra charge.

**SPEED.**—Horse, 800 to 1000 revolutions per minute; steam, 1000 to 1200.

**CAPACITY.**—Ear corn, 8 to 18 bushels. If corn is new or wet, the work can be done, but not so fast. Shelled corn, 8 to 20 bushels per hour. All kinds of small grains separately, or corn and oats or other grains mixed, 6 to 15 bushels per hour. Weight, 508 pounds.

**Price of This Mill, Complete, With Extra Set of Plates.....\$65.00**

### STYLE L.—No. 1.

Has double breakers, with partition hopper, pin breaker and safety bottom. It grinds ear corn with shucks on, shelled corn, oats, rye, barley, wheat screenings, or any kind of small grain separately, any two or more mixed, for feed.

**GRINDING PLATES.**—12 inches diameter, of extremely hard metal, and very durable. Are reversible and self-sharpening, having double the capacity of non-reversible plates.

**POWER.**—8 to 12 horses to sweep power; 6 to 10 horse steam power.

**PULLEY.**—8-inch diameter, 6½-inch face; can furnish larger if desired, without extra charge.

**SPEED.**—Steam power, 1000 to 1200 revolutions per minute; horse, 800 to 1000 revolutions.

**CAPACITY.**—Ear corn with shucks on, 10 to 20 bushels per hour; with shucks off, 15 to 30 bushels. If corn is new, wet or frozen the work can be done equally as well, but not so fast. Shelled corn, 25 to 40 bushels per hour. All other small grains separately, or corn and oats or other grains mixed, 15 to 30 bushels per hour. Weight, 560 pounds.

**PRICE.....\$75.00**

Prices on Power Mills Subject to Special Discount.

Shipping Weight, 1050 Lbs. Length of Sweep, 12 ft.

Write for Special Prices.



The Scientific, Double-Action, Triple-Geared Mill, No. 8.

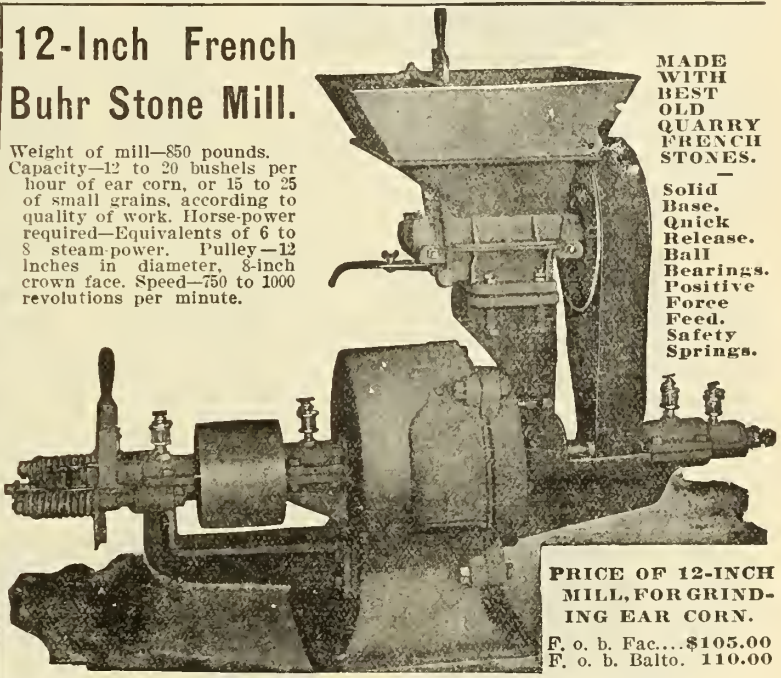
Something Entirely New.

## 12-Inch French Buhr Stone Mill.

Weight of mill—850 pounds. Capacity—12 to 20 bushels per hour of ear corn, or 15 to 25 of small grains, according to quality of work. Horse-power required—Equivalents of 6 to 8 steam-power. Pulley—12 inches in diameter, 8-inch crown face. Speed—750 to 1000 revolutions per minute.

MADE WITH BEST OLD QUARRY FRENCH STONES.

Solid Base. Quick Release. Ball Bearings. Positive Force Feed. Safety Springs.



PRICE OF 12-INCH MILL, FOR GRINDING EAR CORN.

F. o. b. Fac...\$105.00  
F. o. b. Balto. 110.00

At the ordinary speed of team the one grinding plate makes 30 revolutions to one round, the other one revolution with each round of team. The grinding plates revolve in opposite directions. Power attachment is furnished, so that a corn sheller, feed cutter, saw or similar machines can be operated when grinding is done; plates can be removed and mill used only as a power; 15-foot tumbling rod with each attachment; we furnish pulley 15x4, 20x4, or 24x4; tumbling rod makes 58 revolutions to one round of horses.

Capacity—Small grain, 12 to 18 bushels per hour, two horses; 10 to 15 bushels of ear corn, according to condition of grain and fineness of feed; proportionately increased with four horses.

Price of Mill for Small Grain and Ear Corn.....\$70.00  
Special Discount for Cash.

### No. 5 Staver Buckeye Cob Mill and Power Combined For Grinding Ear Corn or Small Grain.

A rapid-grinding Corn and Cob Mill. A mill that grinds fine either Ear Corn or Small Grains without change of plates. A Cob Mill, a Mill for Small Grain, and a good Two-Horse Power combined in one light-running machine.

This mill has been thoroughly tested, and never fails to give satisfaction. Capacity—Small Grain, 10 to 15 bus. per hour. Ear Corn, 8 to 12 bus. per hour. Price, 2 Sweeps, \$55.00, Less Special Discount for Cash.

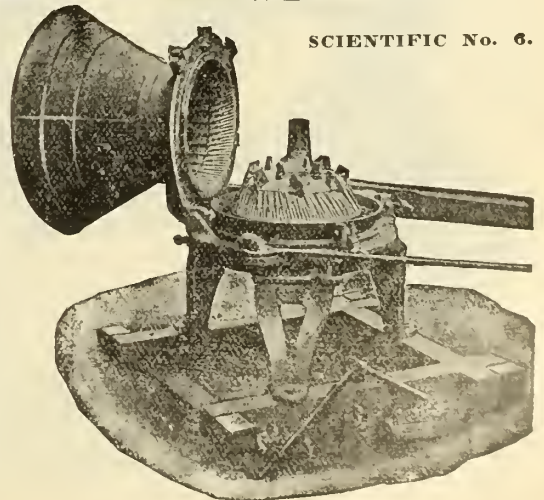
### Scientific, No. 6, New Geared Sweep Mill. Double Action.

Its gearing consists of three gear pinions, which revolve on independent chilled studs. The mill grinds all grains, but is especially effective and rapid on ear corn, and our double-action feature, which is applied to these mills, prevents any cobs lodging in hopper at the 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 Buckets, \$35.00. Special Discount for Cash.

### Scientific, No. 5, Triple-Geared Sweep Mill.

This mill is similar to the Scientific No. 6, except it is smaller, and without tilting hopper about one-third less capacity. Mounted on a box. Very convenient. Double action, easy running. Complete in every particular. Does first-class work. The best on the market at the price. Weighs about 550 pounds. Price \$28.00. Special Discount for Cash.

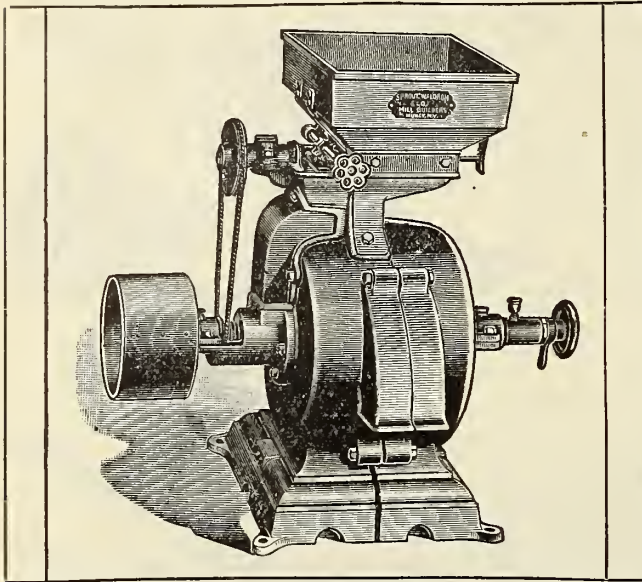
We also carry a plain sweep power mill. Single action. Grinds successfully all kinds of small grain. One or two horse, capacity about 5 to 8 bushels per hour. Weighs about 400 pounds. Price, \$20.00. Special Discount for Cash.



SCIENTIFIC No. 6.

The Friction Clutch Pinion prevents breakage of Cogs, etc.

## THE SPROUT WALDRON VERTICAL FRENCH BURR MILL.



THESE mills are heavy, strong and durable, and expensive to build, there being a large amount of machine work upon them. It will be seen by comparing the description and weight of these mills with the price-list that the prices are very low for the class of work. No purchaser would be willing to have them built in a cheaper manner, or any of the improvements left off. Furnished with ball bearings, and the shells are lapped, turned and bored. Well built and designed for farm use.

### Monarch "Light Power" Mills.

With these mills a farmer can grind his own shelled corn, corn and cob, oats and rye, screenings, buckwheat or barley, crack corn for his chickens, or grind the finest quality of cornmeal for his table.

The burrs are genuine solid French burrs, same as used in our larger mills, carefully selected for the work they have to do. Anyone following our instructions, which are very simple, can keep the burrs and mill in good order and run the same very successfully.

**Dimensions, 10-Inch Mill.**—Diameter burrs, 10 inches; weight, 325 pounds; size pulley, 7x4; revolutions per minute, 1000 to 1200; capacity—table meal, 2 to 4 bushels; feed meal, 4 to 8 bushels; length, 32 inches; height, 27 inches; width, 17 inches; floor space, 16x16; height from floor to center of spout, 8½ inches; height from floor to center of shaft, 10 inches. Price—List, \$100.00. Retail, f. o. b. factory, \$55.00; f. o. b. Baltimore, \$58.00.

### Twelve-inch Monarch Standard French Burr Mill.

**Dimensions.**—Length over all, 49 inches; width over all, 24 inches; height over all, 32 inches; distance from floor to center of shaft, 13 inches; floor space base occupies 20x39 inches; driving pulley, 8 inches diameter, 5 inches face, covered with leather; weight, 500 pounds.

**Speed, Capacity, Etc.**—1000 to 1200 revolutions per minute; capacity, 5 to 7 bushels of table meal, 12 to 15 bushels feed meal per hour. Power required, 4 to 6 horse-power.

Price—List, \$125.00. Retail, f. o. b. factory, \$68.75; f. o. b. Baltimore, \$73.00.

### Sixteen-inch Monarch Standard French Burr Mill.

**Dimensions.**—Length over all, 56 inches; width over all, 25 inches; height over all, 39 inches; distance from floor to center of shaft, 15 inches; floor space base occupies 22x45 inches; driving pulley, 10 inches diameter, 6 inches face; covered with leather; weight, 800 pounds.

**Speed, Capacity, Etc.**—1000 revolutions per minute; capacity, 10 to 12 bushels fine table meal, 20 to 25 bushels feed meal per hour. Power required, 6 to 10 horse-power.

Price—List, \$180.00. Retail, f. o. b. factory, \$90.00; f. o. b. Baltimore, \$95.00.

### Twenty-inch Monarch Standard French Burr Mill.

**Dimensions.**—Length over all, 67 inches; width over all, 27 inches; height over all, 41 inches; distance from floor to center of shaft, 16 inches; floor space base occupies 24x54 inches; driving pulley, 12 inches diameter, 8 inches face; covered with leather; weight, 1350 pounds.

**Speed, Capacity, Etc.**—900 revolutions per minute; capacity, 15 to 20 bushels fine table meal, 40 to 50 bushels feed meal per hour. Power required, 10 to 15 horse-power.

Price—List, \$250.00. Retail, f. o. b. factory, \$125.00; f. o. b. Baltimore, \$134.00.

### Twenty-four-inch Monarch Standard French Burr Mill.

**Dimensions.**—Length over all, 70 inches; width over all, 32 inches; height over all, 48 inches; distance from floor to center of shaft, 17 inches; floor space base occupies 27x57 inches; driving pulley, 16 inches diameter, 8 inches face; covered with leather; weight, 1800 pounds.

**Speed, Capacity, Etc.**—800 revolutions per minute; capacity, 20 to 25 bushels fine table meal, 60 to 70 bushels feed meal per hour. Power required, 10 to 15 horse-power.

Price—List, \$320.00. Retail, f. o. b. factory, \$160.00; f. o. b. Baltimore, \$171.00.

### Thirty-inch Monarch Standard French Burr Mill.

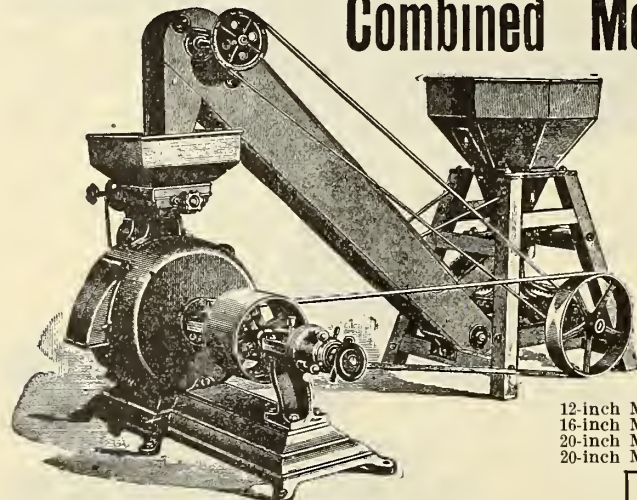
**Dimensions.**—Length over all, 70 inches; width over all, 39 inches; height over all, 54 inches; distance from floor to center of shaft, 20 inches; floor space base occupies 30x53 inches; driving pulley, 20 inches diameter, 8 inches face; covered with leather; weight, 2500 pounds.

**Speed, Capacity, Etc.**—750 revolutions per minute; capacity, 25 to 30 bushels fine table meal, 70 to 100 bushels feed meal per hour. Power required, 20 to 25 horse-power.

Price—List, \$420.00. Retail, f. o. b. factory, \$210.00; f. o. b. Baltimore, \$225.00.

## Combined Monarch Corn and Cob Outfit.

ESPECIALLY ADAPTED FOR FARMERS AND THRESHERMEN.



FLOOR SPACE.

12-inch Mill, No. 1 Crusher, occupies 86x46 inches.  
 16-inch Mill, No. 1 Crusher, occupies 90x54 inches.  
 20-inch Mill, No. 1 Crusher, occupies 102x67 inches.  
 20-inch Mill, No. 2 Crusher, occupies 104x67 inches.

The accompanying illustration represents the mill and an improved crusher combined. The crusher is driven from the mill spindle by a 3-inch belt. The crushed corn is carried to the mill hopper by an elevator, saving extra handling. This makes a very handy combined mill, the crusher requiring very little power, and need only be run while grinding ear corn, and can be stopped or started at any time while the mill is in motion. The most successful combined burr-stone mill ever offered to the trade.

The cut shows mill and crusher combined on all of the sizes except the special 12-inch mill, for light power, that being constructed slightly different.

Write for Special Prices on Mill and Crusher combined

#### PRICES MILL AND CRUSHER COMBINED.

	List Price.	RETAIL PRICES.	
		f. o. b. Factory.	f. o. b. Balto
12-inch Mill, No. 1 Crusher, combined.....	\$200.00	\$100.00	\$105.75
16-inch Mill, No. 1 Crusher, combined.....	256.00	128.00	134.50
20-inch Mill, No. 1 Crusher, combined.....	324.00	162.00	171.00
20-inch Mill, No. 2 Crusher, combined.....	360.00	180.00	191.00

**Prices of Monarch Ear Corn Crushers:** No. 1—30x30-inch floor space; capacity, 12 to 30 bushels corn ears per hour; weight, 35 pounds. Factory List, \$40.00. Retail, f. o. b. Factory, \$28.00. f. o. b. Baltimore, \$32.00.

No. 2—36x36-inch floor space; capacity, 40 to 90 bushels corn ear per hour; weight, 750 pounds. Factory List, \$60.00. Retail, f. o. b. Factory, \$42.00; f. o. b. Baltimore, \$47.00.

## SWEEP HORSE POWERS.

### TWO-HORSE No. 6.

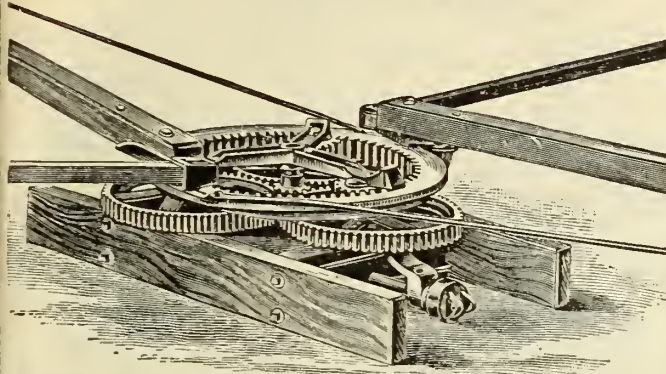
Can be used with one or two sweeps. This is the same power as we furnish with our two-horse Mill and Power combined. The tumbling rod makes 60 revolutions to one walk of the horses, has ratchet knuckle, and two sweeps can be attached to the power when desired, so as to hitch one horse to each sweep. Weight of power about 600 pounds.

Price with one Sweep.....\$35.00  
Price with two Sweeps..... 38.00

### FOUR-HORSE No. 7.

WITH TWO SWEEPS.

This power is constructed on the same principle as our two-horse power, but is much heavier and stronger. The train of gearing is direct. The weight of power, complete with two sweeps, tumbling rod and pulley, is about 925 pounds. Speed of tumbling rod, 81 revolutions to one walk of the horses. Length of sweeps, 12 feet, requiring a circle of 27 feet in diameter for walk of horses. Furnished with 20 or 24-inch pulley. Price \$55.00.



### Agricultural Suction Hose.

Specially designed for use on our Low Down Force Tank Pumps. This hose is composed of good rubber on the exterior, the interior having a galvanized, flat spiral wire to give the hose the required rigidity and prevent it from collapsing. The ends for about 6 inches are of soft rubber, without the wire, for the purpose of enabling the operator to fasten securely together. Made in 10-foot sections. This hose is used for all suction purposes, such as draining cellars, cisterns- etc.

PLAIN BORE, GALVANIZED, FLAT SPIRAL WIRE.  
Per foot..... 40c.

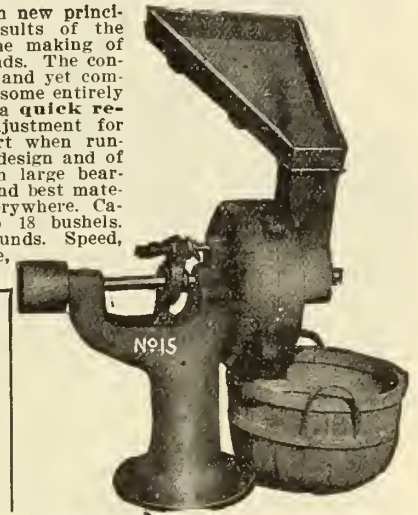


### Scientific No. 15 Shuck Corn Grinding Mill

For 5 H. P. Gasoline Engine.

SIMPLE STRONG PRACTICAL

This mill is built upon new principles embodying the results of the largest experience in the making of Grinding Mills of all kinds. The construction is very simple and yet complete in every way—and some entirely new features employed—a quick release and also an adjustment for keeping the plates apart when running empty. Strong in design and of liberal proportions, with large bearings heavily babbitted and best material and construction everywhere. Capacity per hour, 12 to 18 bushels. Weight, complete, 400 pounds. Speed, revolutions per minute, 1000. Price, \$37.00



### Scientific No. 10 Small Grain Grinding Mill

For 3 H. P. Gasoline Engine.

This is the only small power mill on the market that is really efficient and of requisite strength for good service. To the strong yet simple design is added the latest and best improvements—particularly the quick release, which also has the feature of holding the grinding plates apart when running empty. It is the easiest of all mills to take apart. Simply open the case and the plates are entirely exposed. No pulleys, etc., to be removed. Heavily babbitted bearings. Extra strength everywhere.

Capacity per hour, 12 to 18 bushels. In grinding rye, barley, oats and similar small grains, the best results are secured by mixing with them in grinding 25 to 50 per cent. shelled corn.

Weight, complete..... 350 pounds.  
Speed, revolutions per minute..... 1000  
Price ..... \$32.00

### Spur and Bevel Gear Jacks.

This machine is intended to increase speed and transmit power by belt. The spur gear transmits the motion at a right angle with the tumbling rod, and the bevel gear transmits it in a line with tumbling rod and gives the band wheel two revolutions to one of the tumbling rod. Price \$12.00.

SPECIAL DISCOUNT FOR CASH.

## RUBBER BELTING

FOR AGRICULTURAL AND OTHER MACHINERY.



We can furnish a full line of this fine Rubber Belting, but only carry in stock the following sizes:

	List Price	Retail Price
	Per Foot.	Per Foot.
3-inch, 3-ply.....	26c.	13c.
3-inch, 4-ply.....	31c.	16c.
4-inch, 3-ply.....	34c.	17c.
4-inch, 4-ply.....	42c.	21c.
5-inch, 3-ply.....	43c.	22c.
5-inch, 4-ply.....	52c.	26c.
6-inch, 4-ply.....	62c.	31c.

Special Prices for Cash.

Larger and smaller sizes on application.

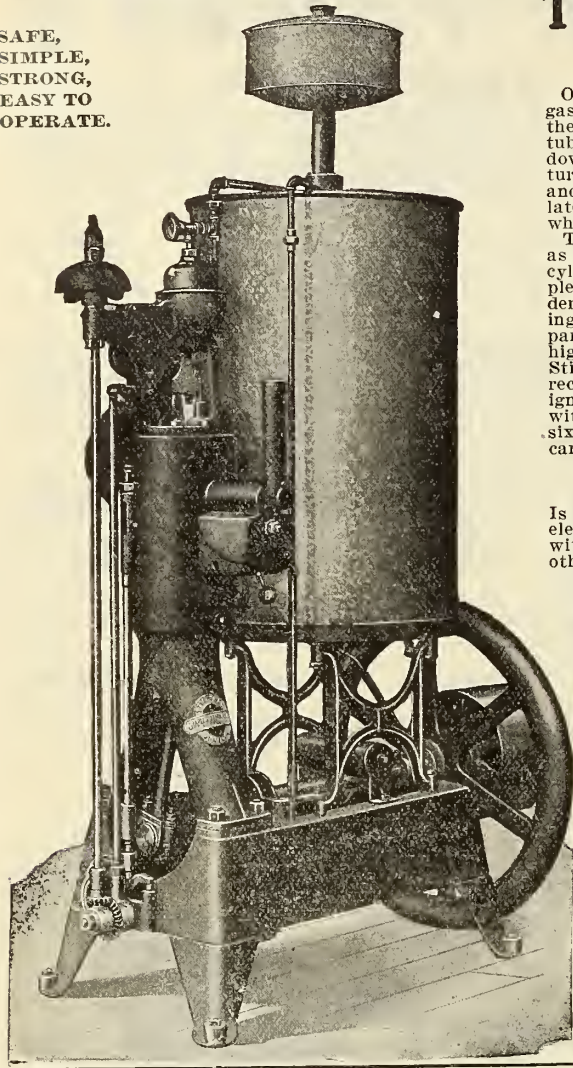
## CUT RAW-HIDE BELT LACING



3/4-inch. List price, per 100 feet.....	\$1.50
1/2-inch. List price, per 100 feet.....	2.00
3/8-inch. List price, per 100 feet.....	2.75

Special Prices in Bundles of 100 Feet.  
(For Belt Punches. See Page 133.)

SAFE,  
SIMPLE,  
STRONG,  
EASY TO  
OPERATE.



## The Stickney Junior 3-Horsepower Gasoline Engine.

On the first downstroke of the piston a measured charge of thoroughly-mixed gasoline and air is drawn into the cylinder; the upstroke compresses this vapor to the proper pressure, at which instant it is fired by an electric spark or by a hot tube, and the combustion of this vapor creates a pressure that drives the piston downward, revolving thereby the crankshaft, flywheel and belt pulley. On the return upstroke of the piston the burnt gases are expelled through the exhaust valve and exhaust pipe, and this operation is repeated. The speed of the engine is regulated by a governor similar in principle to that generally found on steam engines, which cuts out or shuts off unneeded charges from the cylinder.

There is no gasket to leak and let water into the cylinder where it is not wanted, as the cylinder and cylinder head are cast in one piece, without joints. The cylinder is provided with but one valve opening, the valve being completely water-jacketed, and each fresh charge passes over it in entering the cylinder. This avoids the burning out of the exhaust valve and all annoyance attending it. Steel forgings are used for crankshaft, connecting rod and valves. Every part is made of material best adapted for its use, and the workmanship is of the highest grade. The mixer is the lungs of every engine. The mixer used on the Stickney gives to the cylinder under all conditions of speed and weather a correctly proportioned and thoroughly mixed charge of gasoline and air. The electric igniter is outside the cylinder, where it is cool; it can be taken apart and replaced without tools and the spark can be examined at any time. Current is furnished by six dry batteries, which go with every engine. The hot tube igniter is efficient, and can be operated anywhere without danger of fire, and the wind cannot blow it out.

### No. 3 Stickney Junior. 3 Horsepower.

Is a full three-brake horse-power gasoline engine complete, with both hot tube and electric igniters, batteries, water tank, gasoline tank and pulley. Can be furnished with pulley either 8-inch, 12-inch or 16-inch diameter by 6-inch face, but unless otherwise ordered 12-inch pulley will be furnished. The nominal speed of the engine is 360 revolutions per minute. Shipping weight, 1050 pounds. The gasoline tank holds three gallons, and is attached to the top of the water tank, constituting a gravity feed. This type of engine is preferred by most users.

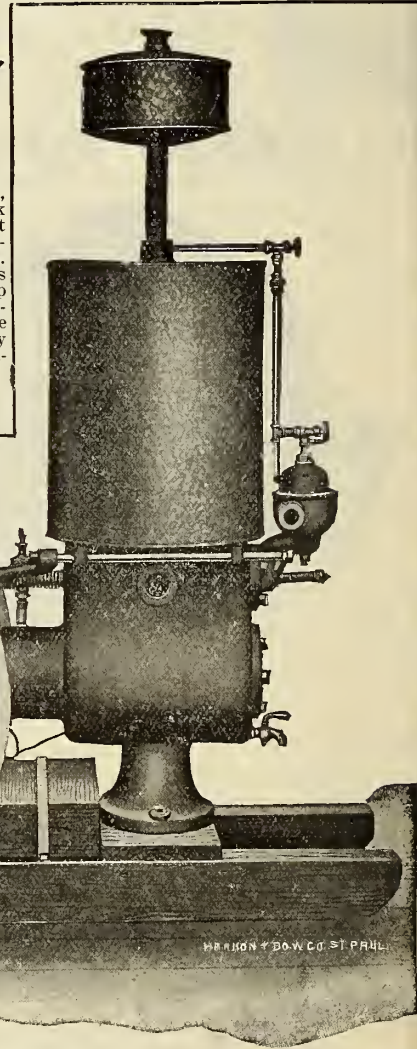
PRICE..... \$160.00

### No. 4 Stickney Junior.

(3 H. P.)

Is exactly the same as the No. 3, except that the gasoline tank holds ten gallons and can be set outside the building and connected to the engine by pipes. The gasoline is pumped from this tank to the engine by a pump operated by the engine, and constitutes a pump feed. This type of engine is recommended only when gasoline must be stored outside the building.

PRICE..... \$170.00



## Stickney 6 Horsepower Gasoline Engine.

The Stickney 6 horse-power horizontal gasoline engine is a standard four-cycle "hit-and-miss" type of engine with both hot tube and electric igniters, equipped with a latest improved type of automobile muffler.

### SPECIFICATION FOR 6 HORSE-POWER ENGINE.

Size of cylinder, 6 $\frac{1}{4}$  inches diameter, 8-inch stroke.  
Speed, 250 to 400 R. P. M. Normal speed, 300 R. P. M.  
Standard pulley furnished, 24x8 inches.  
Special pulleys to order, 16, 20, 28, 32 inches diameter by 8-inch face.  
Friction clutch pulley to order, 24x6 inches.  
Shipping weight approximately 1650 pounds.  
Dimensions — Length, 66 inches; width, 26 inches; height, 50 inches; diameter flywheel, 38 inches; weight of flywheels, 600 pounds; diameter crankshaft, 2 $\frac{3}{4}$  inches.

PRICE..... \$325.00

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.





## Adze-Eye Nail Hammer

**EXTRA TOOL STEEL. SELECTED HICKORY HANDLES.**  
 No. 111½.—Weight, 1 pound. Not polished. Retail price, each, 30c.  
 No. 91½.—Weight, 1 pound. Not polished. Retail price, each, 40c.  
 No. 41½.—Weight, 1 pound. Polished. Retail price, each, 60c.  
 Above Weights do not include Handles.

## Machinist's Ball Pein Hammer

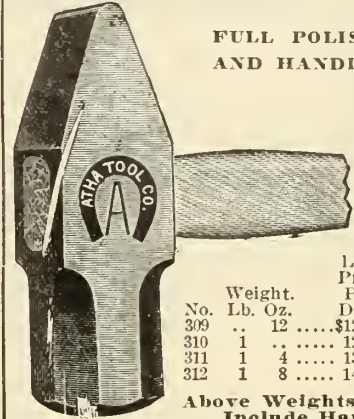


FULL POLISHED  
AND HANDLED.

No. 381.—Weight, 1 lb. 10 oz.; list price per doz., \$13.00; retail price each, 75c.  
 No. 382.—Weight, 2 lbs.; list price per doz., \$14.00; retail price each, 85c.

Above Weights do not include Handles.

## Engineers' Hand Hammer



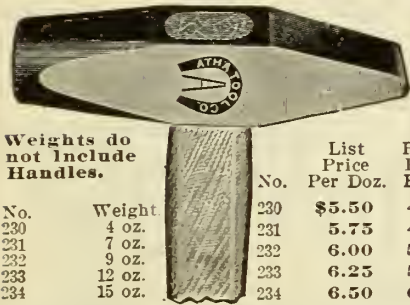
FULL POLISHED  
AND HANDLED.

No.	Weight.	List Price	Ret'l Price
	Lb. Oz.	Per Doz.	Each.
309	12	\$12.00	75c.
310	1	12.50	80c.
311	4	13.50	85c.
312	8	14.50	90c.

Above Weights do not include Handles

## Riveting Hammer

PLAIN EYE, POLISHED AND HANDLED



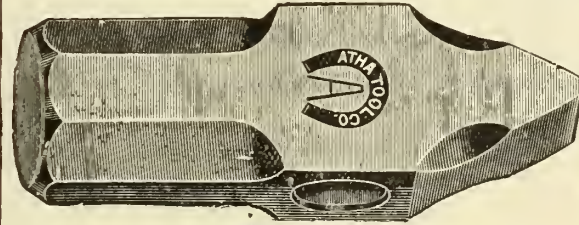
Weights do not include Handles.

No.	Weight	List Price Per Doz.	Retail Price Each.
230	4 oz.	\$5.50	40c.
231	7 oz.	5.75	45c.
232	9 oz.	6.00	50c.
233	12 oz.	6.25	55c.
234	15 oz.	6.50	60c.

## Blacksmith's Hand Hammer

OIL FINISH, NOT HANDLED.

No. 860—5 lb. and over, per lb., List, 30c. Retail, per lb., 8c.  
 3 to 5 lb., per lb., List, 36c. Retail, per lb., 9c.  
 Under 3 lb., per lb., List, 45c. Retail, per lb., 10c.

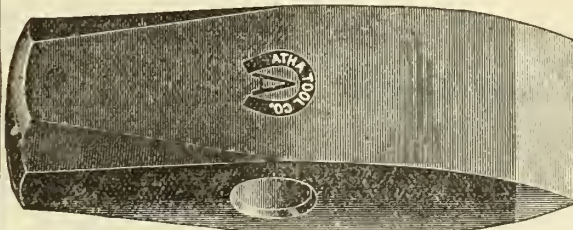


BLACKSMITH'S SLEDGES.

No. 830—5 lb. and over, per lb., List, 30c. Retail, per lb., 8c.  
 3 to 5 lb., per lb., List, 36c. Retail, per lb., 9c.

## STONE SLEDGES No. 730.

NOT HANDLED.



Weight 5 to 30 lb., per lb., List, 30c. Retail, 8c.

## Napping Hammers

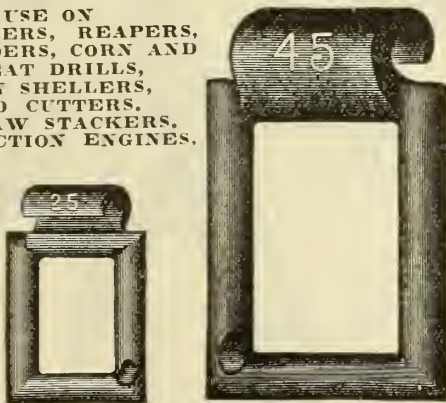
No. 890.



Not Handled  
 5 lb. and over, per lb., List, 30c. Retail, 9c.  
 3 to 5 lb., per lb., List, 36c. Retail, 10c.  
 Under 3 lb., per lb., List, 45c. Retail, 12c.

## LINK CHAIN BELTING.

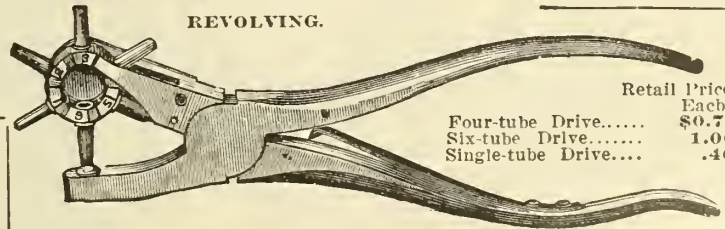
FOR USE ON MOWERS, REAPERS, BINDERS, CORN AND WHEAT DRILLS, CORN SHELLERS, FEED CUTTERS, STRAW STACKERS, TRACTION ENGINES, ETC.



Number.	Links per Foot.	Working Strain, Pounds.	List Price Per Foot. All Plain Links.	Retail Price Per Link.
25	13.3	75	12c.	2c.
32	10.4	150	12c.	2c.
33	8.6	200	12c.	3c.
35	7.4	250	12c.	3c.
42	8.75	300	13c.	3c.
45	7.4	350	13c.	4c.
48	6.	375	15c.	4c.
55	7.4	450	18c.	5c.
62	7.25	650	24c.	6c.
65	5.66	550	30c.	7c.
72½	7.25	925	30c.	8c.
76½	5.8	700	30c.	8c.

## BELT PUNCHES.

REVOLVING.



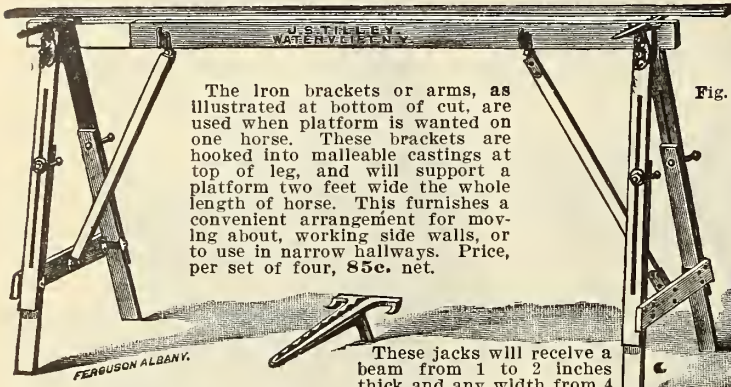
	Retail Price, Each.
Four-tube Drive.....	\$0.75
Six-tube Drive.....	1.00
Single-tube Drive....	.40

ROUND.



Nos.	Retail Price, Each.
Nos. 1 to 6.....	10c.
Nos. 7 to 9.....	15c.

## Tilley Adjustable Patented 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 at top of leg, and will support a platform two 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, 85c. 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 paper-hangers, the putting up of metal ceilings, shaftings, 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.

**3 3/4 x 1 1/4 Slotted Leg. 3 3/4 x 1 1/4 Traveling Leg.**

No.	Stands 3 ft. high, will extend to 5 ft.	Per Jack.
5.	4 " " " 6 ft.	\$2.50
6.	5 " " " 8 ft.	2.50
7.	6 " " " 9 ft.	3.20
8.	7 " " " 11 ft.	3.55
9.	8 " " " 12 ft. 6 in.	3.80
10.	8 " " "	3.80
Brackets, per set of four, net.		.85

**EXTRA HEAVY FOR PLASTERERS AND MILL WORK.**

**4 x 1 3/4 Slotted Leg. 3 3/4 x 1 1/4 Traveling Leg.**

No.	Stands 4 ft. high, will extend to 6 ft.	Per Jack.
11.	5 " " " 8 ft.	\$2.90
12.	6 " " " 9 ft.	3.20
13.	7 " " " 11 ft.	3.60
14.	8 " " " 12 ft. 6 in.	4.00
15.	8 " " "	4.30
16.	10 " " "	6.00

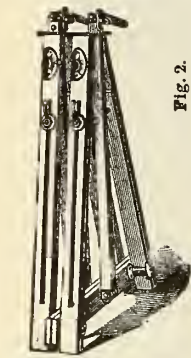


Fig. 2.

## OUR IMPROVED TILLEY EXTENSION LADDERS.

These ladders are stiff, strong and well built. Have improved patent spring locks attached to traveling section, 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. section, extends 21 ft.	21 ft.	\$6.00
26 " 2-13 " "	23 " "	6.50
28 " 2-14 " "	25 " "	7.00
32 " 2-16 " "	29 " "	8.00
36 " 2-18 " "	33 " "	9.00
40 " 2-20 " "	36 " "	12.00

**Other Lengths Given on Application.**

Windlass Ladders can be furnished if desired. Prices on application.

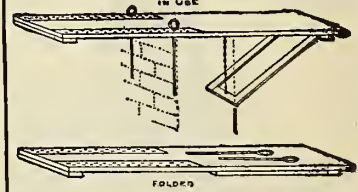
## WINDOW BRACKET OR PAINTERS' CRIPPLE.

Is strong. Folds up closely, and weighs but 24 pounds. Is made of the best material. Is safe, and can be quickly adjusted to any window.

Particularly useful for setting glass and painting sash.

**\$5.00 EACH.**

We also have a cheaper but thoroughly good window bracket. Price \$3.00.



## IMPROVED TILLEY STEP LADDERS.

## Tilley Improved Sectional Ladders.

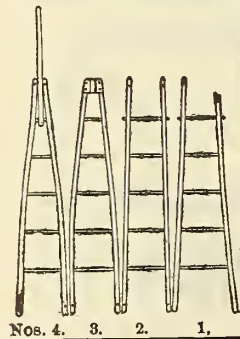
Sections, 6 ft. 5 in. long. Either plate and pin lock or lock nut fastening. Per section...\$1.50

**Window Cleaners' and Fruit Pickers' Ladders.**

**Single Ladders.**

Made of spruce, with hand-shaved oak rounds; first-class in every particular.

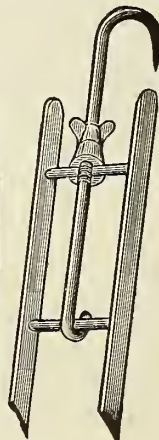
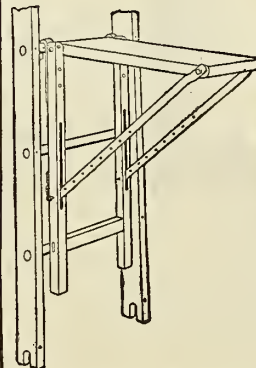
**Price.**  
12, 14, 16, 18 feet, 15c. per foot.  
Ladders over 18 feet, 2c. per foot extra.  
Also have a cheaper single ladder, 2c. per foot less than above prices.



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, \$1.25.

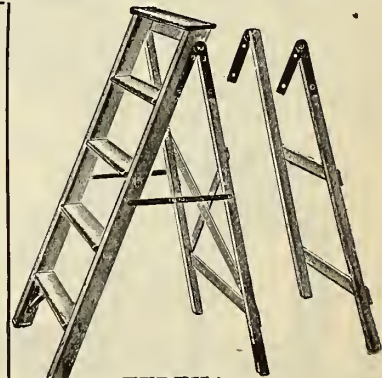
This old reliable and well-known ladder hook needs very little explanation. The cut explains all its merits and utility for a roof ladder. It can be quickly attached or detached. Price 50c. each.

## LADDER BRACKETS.



**TILLEY LADDER HOOK.**

Are adjustable to any angle of the ladder or any pitch of the roof. No fitting to the ladder. Price, each, \$3.00



**EUREKA.**

Well adapted to any use to which stepladders are put. It has a special style of hinge, connecting front and back, bolted on, rodged, and well braced with iron. Some prefer the open back detached, as it admits of using a plank to make a platform more readily.

**Prices of Stepladders, With Pail Rest.**

5 feet	\$2.25	12 feet	\$4.50
6 feet	2.50	14 feet	7.00
8 feet	3.00	16 feet	8.00
10 feet	3.50	18 feet	9.00

Also have a cheap stepladder, similar to the Eureka, per foot, 15c.

## The Griffith & Turner Improved, Combined Step and Extension Ladder.

### THE MATERIAL USED.

Norway pine for sides; rock elm or hickory for rungs; the very best grade of malleable iron castings for metal parts.

Can be almost instantly changed to any height up to nearly twice its closed length, the rungs always being exactly opposite each other in the lapped portion, no matter what the amount of extension; or by swinging the bottoms apart, a reliable and convenient stepladder is obtained. They can also be extended or closed, and for any use that a stepladder can be used are very desirable. All ladders over 24 feet in length are made in two long sections, with flared bottom, adding to the rigidity and reducing the slipping at bottom to a minimum. This ladder will come apart and each section can be used separately. This style can, of course, be extended or closed, but does not swing apart, forming a stepladder, as does the other style.

We use Norway pine for sides; rock elm, or second growth white hickory, for rungs; the very best grade of malleable iron castings for metal parts.



**OPEN**

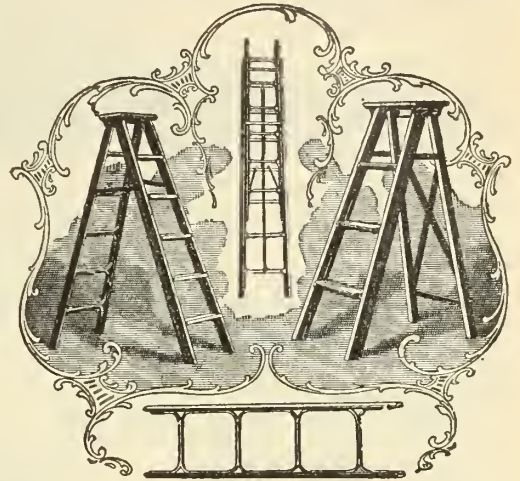
In ordering, bear in mind that a certain amount has to be allowed for the "lap" when the ladder is in its most extended form, the amount of necessity increasing as the ladders increase in length, in order to obtain perfect safety and firmness. In length of 12 to 18 feet deduct one foot for lap—that is, a 12-foot ladder would be 6 feet high when closed or would form a 6-foot stepladder, but would be only 11 feet long when extended. In lengths of 20 to 32 feet deduct two feet, and from 34 to 40 deduct three feet from the total length in same manner.

### PRICE LIST.

12-ft. exten. ladder makes 6-ft. stepladder.	\$2.16
14-ft. exten. ladder makes 7-ft. stepladder.	2.52
16-ft. exten. ladder makes 8-ft. stepladder.	2.88
18-ft. exten. ladder makes 9-ft. stepladder.	3.24
20-ft. exten. ladder makes 10-ft. stepladder.	3.60
22-ft. exten. ladder makes 11-ft. stepladder.	3.96
24-ft. exten. ladder makes 12-ft. stepladder.	4.32
26-ft. extension ladder, in two sections of 12 and 14 ft. each.	5.20
28-ft. extension ladder, in two sections of 12 and 16 ft. each.	5.60
30-ft. extension ladder, in two sections of 14 and 16 ft. each.	6.00
32-ft. extension ladder, in two sections of 14 and 18 ft. each.	6.40
34-ft. extension ladder, in two sections of 16 and 18 ft. each.	6.80
36-ft. extension ladder, in two sections of 16 and 20 ft. each.	7.20
38-ft. extension ladder, in two sections of 18 and 20 ft. each.	7.60
40-ft. extension ladder, in two sections of 18 and 22 ft. each.	8.00

## Bent Rung Step, Extension and Single Ladders.

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 nearly altogether by hand, and are very much superior to factory ladders. No holes are bored in the side pieces, thus making them the strongest and lightest ladders made.



The rungs are made of toughest hickory. A slight groove in the side pieces, in which the rungs are set, acts as a brace and aids to stiffen the ladder.

### SINGLE LADDERS.

Less 20 per cent. from the following prices:

8 feet.....	\$2.00	12 feet.....	\$3.10	16 feet.....	\$4.30
10 feet.....	2.50	14 feet.....	3.70	18 feet.....	4.90
20 feet.....	5.60				

### COLUMBIA BENT-RUNG DOUBLE STEPLADDERS.

Less 40 per cent. from the following prices:

4 feet.....	\$3.00	7 feet.....	\$4.50	10 feet.....	\$6.00
5 feet.....	3.50	8 feet.....	5.00	12 feet upward,	
6 feet.....	4.00	9 feet.....	5.50	prices on application.	

### BENT-RUNG SINGLE STEPLADDERS.

Same lengths and prices as above. Less 60 per cent.

### EXTENSION LADDERS.

Less 30 per cent. from the following prices:

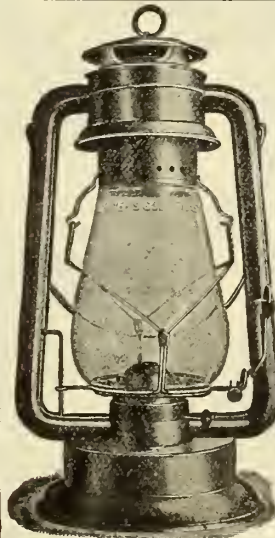
Two Ladders.			Two Ladders.		
Each.	Extended.	Price.	Each.	Extended.	Price.
10 feet.....	17 feet.....	\$7.40	16 feet.....	29 feet.....	\$12.20
12 ".....	21 ".....	8.90	18 ".....	33 ".....	14.40
14 ".....	25 ".....	10.40	19 ".....	35 ".....	15.20
15 ".....	27 ".....	11.20	20 ".....	37 ".....	16.00

**HASTING'S STEP LADDER** with upright support under each step. Stiff, Strong and Durable. All lengths from 6 to 10 feet, 18c. per foot. First Class in Every Particular. Special Prices to Paper Hangers, Painters and the Trade Generally on all Ladders.

**WETTLING STEP LADDER.** Good quality. All lengths from 4 to 10 feet at 15c. per ft. Special Prices in quantities.

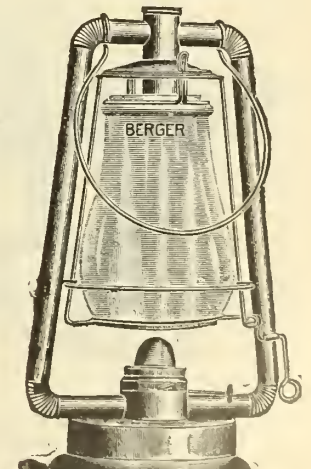
## Berger's Cold Blast LANTERNS.

A veritable stream of clear, white, smokeless light, resulting from perfect combustion, which light the fiercest gases cannot blow or "fiercest" roads jolt out. 85c.



Has No. 2 Burner. 1 inch Wick. Cold Blast Globe.

## Berger's Side and Bail Lift No. 0 Tubular Lanterns.



Patented One-piece Crimped Tubes.

No. 1 Burner, 5/8-inch Wick, No. 0 Globe, Lock Burner, Simplicity Side Lift, Retinned and Tested Founts. Especially designed for severe usage, and is used principally in mills, barns, warehouses, lumber yards, freight-houses, etc.

Price.....50c.

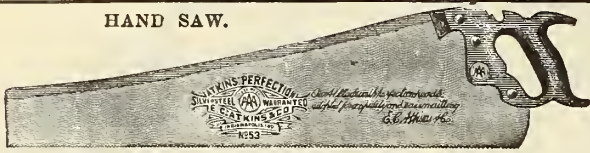
**Dashboard.**—Furnished in Bull's-Eye Globes; No. 1 Burner; 5/8-inch Wick; No. 0 Globe; Lock Burner; Improved Catch. Finished in plain or blue tin. Patented one-piece crimped tubes.

Price.....75c.

**Hood Reflector Dashboard Lantern.**  
Price.....\$1.25

## ATKINS' CELEBRATED SAWS.

HAND SAW.



HAND SAWS.

No. 38.—American straight back; plate on handle. Our special price.....75c. each.

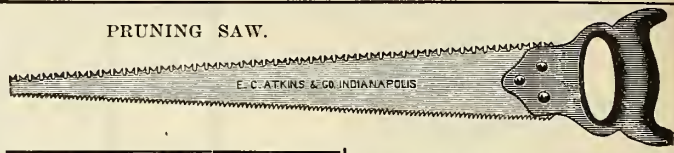
No. 59.—Sheffield Saw Works. Skew back; beech handle; polished edge, 7 to 9 points. Factory list price, \$14.00 per dozen. Our special price.....\$1.00 each.

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.



ONE MAN CROSS-CUT SAW.

American tooth, 3 ft.....\$1.75

American tooth, 3½ ft.....2.00

American tooth, 4 ft.....2.25

American tooth, 4½ ft.....2.50

Special Prices in Quantities.

PRUNING SAWS.

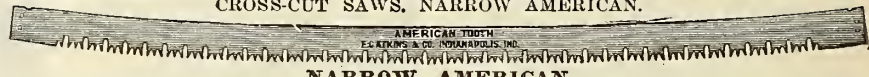
No. 2 Duplex Pruning Saws.

16-inch. Our special price....60c.

18-inch. Our special price....70c.

20-inch. Our special price....80c.

CROSS-CUT SAWS, NARROW AMERICAN.



NARROW AMERICAN.

5 ft. Our special price.....\$1.40

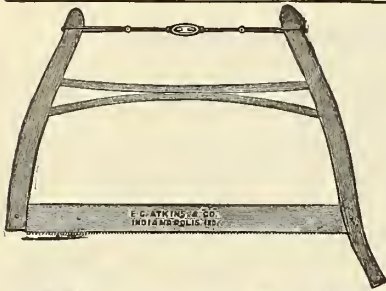
5½ ft. Our special price.....1.50

6 ft. Our special price.....\$1.75

Special Prices in Quantities.

PRICE OF CROSS-CUT SAWS IS WITHOUT HANDLE.

Climax Handles, 15c. per Pair.



### WOOD SAWS.

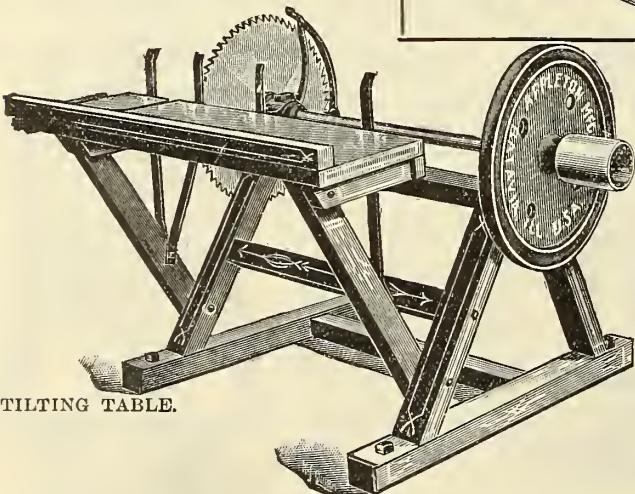
No. 617.—Wood brace frame; single rivet; painted red; plain tooth; breasted blade, 2¼ in. wide. Our special price, 60c.

No. 523.—Wood brace frame; single rivet; selected stock; high finish; painted red; jumbo rod tinned; Tuttle tooth; breasted blade, 2¼ in. wide. Our special price, 75c.

No. 823.—Cantilever frame; selected maple stock; fine natural wood finish; jumbo rod tinned; Tuttle tooth blade breasted; 2¼ in. wide. Our special price, \$1.00.

Wood saw bucks, 35c.

### Common Sense Wood Saw---Wood Frame.



TILTING TABLE.

Common Sense Saw Frame, Wood Frame: 5x5 or 6x6 pulley; speed required, 1000 to 1500 revolutions a minute; weight of frame, 275 pounds.



CROSS-CUT SAWS, WIDE TOOTH, 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

Tuttle Tooth, Cast Steel. Gauge, 14x16.

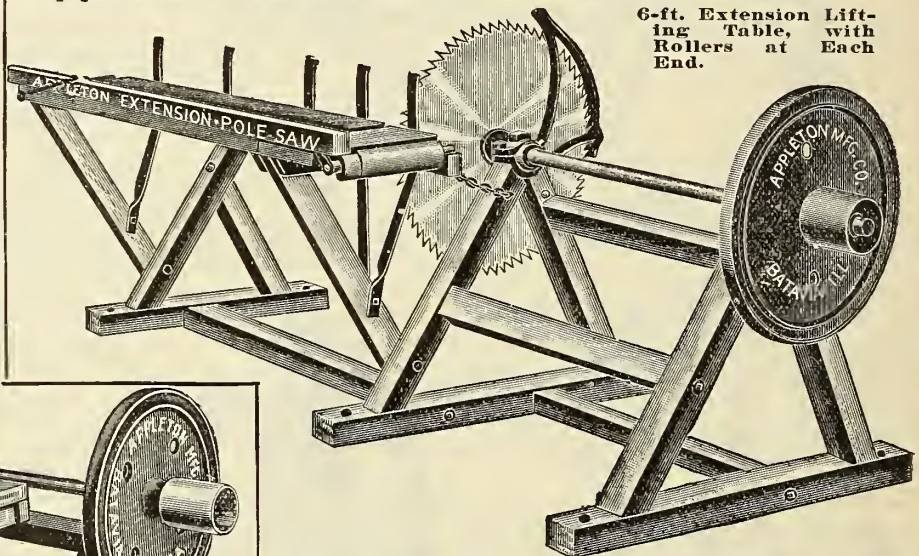
Factory list price, 5 ft.....\$2.30

Factory list price, 5½ ft.....2.54

Factory list price, 6 ft.....2.76

Special Prices in Quantities. Price of Cross-Cut Saws is Without Handle.

### Appleton Extension Pole Saw—Wood Frame.



6-ft. Extension Lifting Table, with Rollers at Each End.

A light-running, easily operated, safely operated design on which long poles can be handled as conveniently and as rapidly as cordwood. Perfect alignment of the saw shaft with the tilting table, making it impossible to injure the saw blade in proper usage.

A heavy guard over the blade to prevent injury to operator.

Patented, adjustable, dustproof oil boxes, which never heat.

This machine has to be driven at a speed of 1000 to 1500 revolutions a minute, and is equipped with either 5x5 or 6x6 pulley.

Weight of the complete frame without saw blade, 328 pounds.

Price, without saw blade.....\$26.00

Price, 22-inch saw.....7.00

Price, 24-inch saw.....8.00

This is a tilting table wood saw, having strongly-constructed frame of carefully selected, well seasoned timber. It has rollers for convenience in handling poles. It is an old favorite which requires no introduction. Any size saw blade from 20 inches up to 30 inches in diameter can be used on these saw frames.

Price, without saw.....\$22.00

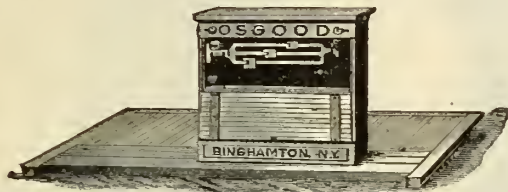
Price, 22-inch saw.....7.00

Price, 24-inch saw.....8.00

## THE CHALLENGE.

FARM, STOCK AND WAGON SCALE.

Osgood Wood Lever Construction. Wood Levers Furnished by Purchaser. Osgood's Direct Lever Plan.



**Leverage.**—This scale is built on the direct leverage plan, and was the first scale ever put out on this plan. The four levers run direct to beam rod from four corners of platform. Each lever swings independently of the other, and owing to their construction, it is impossible for them to bind or interfere with each other. In construction, this scale could not be simpler, and the levers when composed of white or Georgia pine or oak last a great deal longer than the frame. It has been demonstrated that a wood lever will not break, and is much more durable than the ordinary cast-iron lever. Each stirrup is sealed separately to double its capacity.

**Bearings.**—This scale is fitted with our patent protected steel-lined cushioned bearings, which are adjustable to the action of the platform and are protected from dirt and water. The knife edges in the stirrups are composed of the best tool steel, carefully tempered. The loops are all forged iron, steel-lined.

**Beam.**—This scale is furnished with either double or triple beams. The beams and poises are made of red brass of the best quality and polished. We furnish both the double and triple beam.

**Beam Box.**—The beam box is standard size and well made.

**Interchangeable Parts.**—Every part of the scale is interchangeable, and can be replaced by a new one at any time without interfering with the accuracy of the scale.

No.	Tons.	Platform.	List Prices. Double Beam.	List Prices. Triple or Compound Beam.
75	3	8x14	\$50.00	\$55.00
80	4	8x14	52.50	57.50
85	5	8x14	57.50	62.50
88	5	10x16	75.00	80.00
90	6	8x14	65.00	72.50
104	6	10x18	105.00	112.50
98	6	8x22	100.00	107.50

Special Retail 30 per cent. from above prices, with Additional Discount for Cash.

## THE HERCULES

FARM, STOCK AND WAGON SCALE.

Each Scale Fitted with Trussed Steel Levers, on the Osgood Direct Lever Plan.

This scale is practically the same as above, except it has T steel beams instead of wood. It is unquestionably one of the best wagon scales on the market.

No.	Tons.	Platform.	List Prices. Double Beam.	List Prices. Triple or Compound Beam.
250	3	8x14	\$70.00	\$75.00
260	4	8x14	75.00	80.00
270	5	8x14	80.00	85.00
276	5	10x16	110.00	115.00
280	6	8x14	100.00	107.50
289	6	8x22	150.00	157.50
292	6	10x16	130.00	137.50

Special Retail 30 per cent. from above prices, with Additional Discount for Cash.

## CRESCENT GALVANIZED STEEL SCOOPS.

FOR SUGAR AND SALT.

Siemens Steel, Extra Galvanized, Non-Corrosive.

HARD MAPLE HEADS AND HANDLES.

No. 3—Capacity, 2½ pounds.....	25c.
No. 4—Capacity, 3½ pounds.....	30c.
No. 5—Capacity, 4½ pounds.....	35c.
No. 6—Capacity, 5½ pounds.....	40c.

HEADQUARTERS FOR EVERYTHING IN THE LADDER LINE.

(See Pages 134 and 135.)

## PORTABLE SCALES.

### 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, \$10.75.
- 800-lb.—Size of Platform, 16x25, \$12.00.
- 1000-lb.—Size of Platform, 17x26, \$13.50.



### THE OSGOOD.

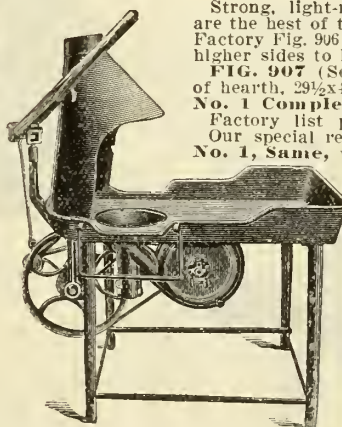
Every individual part is made with extreme care. The pivots and bearings, both in the beam and under the platform, are made of strong, hard, finely-tempered steel. The beam, sliding poise and thumbscrew are of highly-polished brass. The castings are extra heavy, the platform full size, and the axles 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.

	List Price.	Retail Price.
600 lbs...	\$33.00	\$18.00
800 lbs...	38.00	20.00
1000 lbs...	43.00	23.00



### Portable Forges.



Strong, light-running, durable and stiff, and are the best of this kind. Fig. 907 (see cut) and Factory Fig. 906 have oblong hearths, but 907 has higher sides to hold more coal. (See cut.)

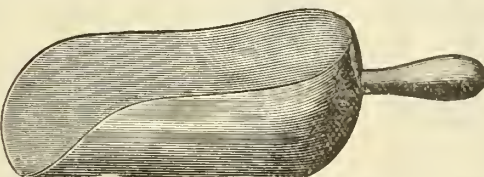
**FIG. 907.** (See cut.)—Height, 30 inches. Size of hearth, 29½x46 inches. Size fan, 15 inches.

- No. 1 Complete, as in cut. Factory list price.....\$50.00
- Our special retail..... 20.00
- No. 1, Same, with Water Tank. List price.....\$55.00
- Our special retail.... 22.00

#### FACTORY FIGURE 906

will heat iron 3 inches in diameter to welding heat. Height, 30 inches. Size hearth, 24x35½. Size fan, 12 inches diameter.

- No. 2, with Shield for Outdoor Work. Factory list price....\$36.00
- Our special retail.... 14.40
- No. 2, with Open Hood. Factory list price....\$40.00
- Our special retail.... 16.00



Cast Aluminum Scoops

MADE OF PURE ALUMINUM, CAST IN ONE PIECE. LIGHT AND CONVENIENT—ABSOLUTELY INDESTRUCTIBLE.

- No. 1—Size, 4x11 inches.....Each, \$1.25
- No. 2—Size, 5x12 inches.....Each, 1.50
- No. 3—Size, 5½x14 inches.....Each, 1.75
- Per set.....\$4.50.

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

## Griffith & Turner Ball Bearing Grindstone

The G. & T. B. B. Grindstone has combination steel and hardwood frame. Stone carefully selected Berea grit. Ball-bearing steel journals and steel axles.  
 No. 1 Stone, 90-110 pounds, each....\$3.75  
 No. 2 Stone, 70-80 pounds, each.... 3.50  
 No. 3 Stone, 40-50 pounds, each.... 3.25  
 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. 010.

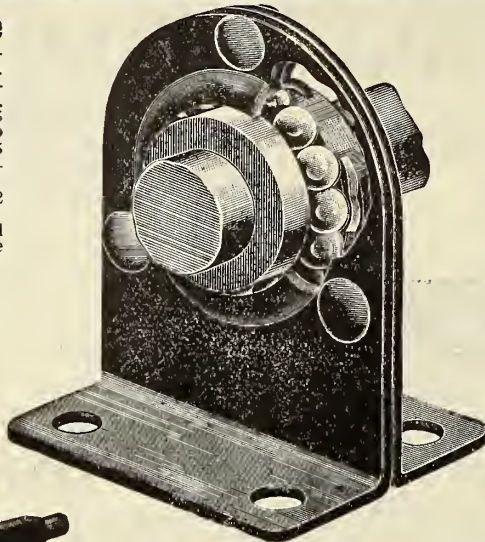
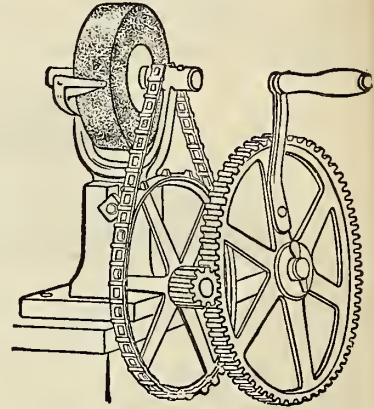


Fig. 1.

Fig. 1 shows the Ball Bearing of the G. & T. B. B. Grindstone.

## Emery Tool Grinder



For grinding any kind of tool. The cut represents

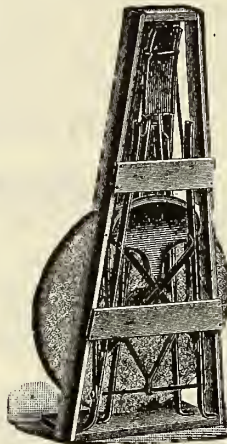
### THE HOUSEKEEPER'S FRIEND.

Will give a keen edge to all kinds of household cutlery. Any lady can use it.

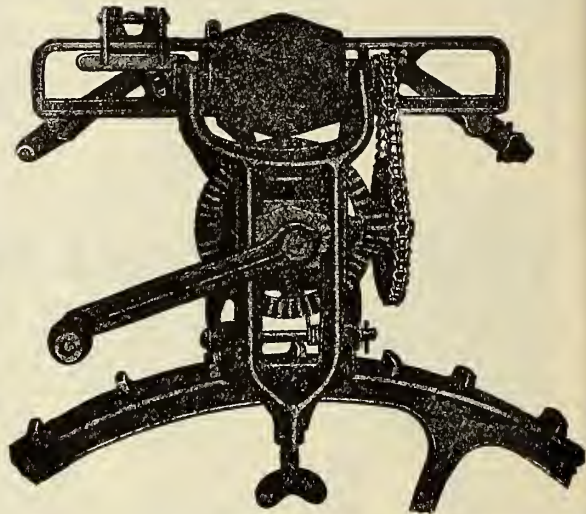
### THE FARMER'S FRIEND.

Sharpens quickly and perfectly all tools from an axe to a pocket knife.....\$2.25

## Diamond Sickle Grinder.



Cut shows the B. B. B. Grindstone, knocked down and crated. Wt., 75 pounds.

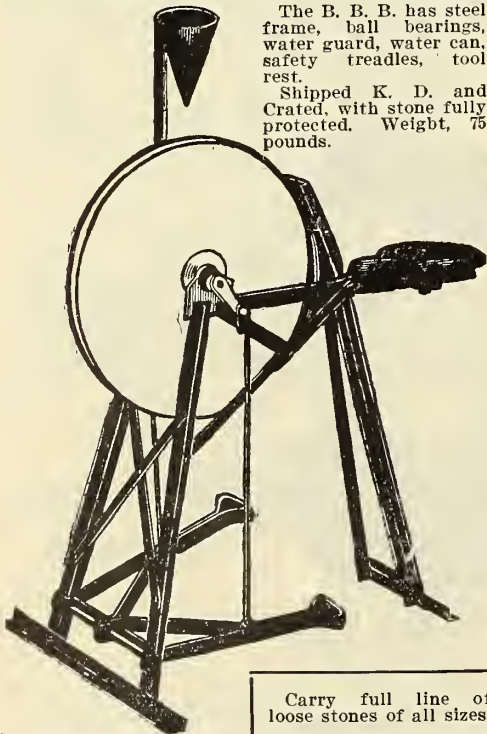


Can be easily set to grind at any bevel. No clamping required to hold knife in position. Only two gears in entire machine. Emery wheel best obtainable; will not glaze nor draw temper from knives. Can furnish straight-faced stone when desired for grinding tools. Easily attached to bench, mowing machine wheel or other suitable place. Price \$3.00.

## BALTIMORE BALL-BEARING GRINDSTONE, Price \$4.00

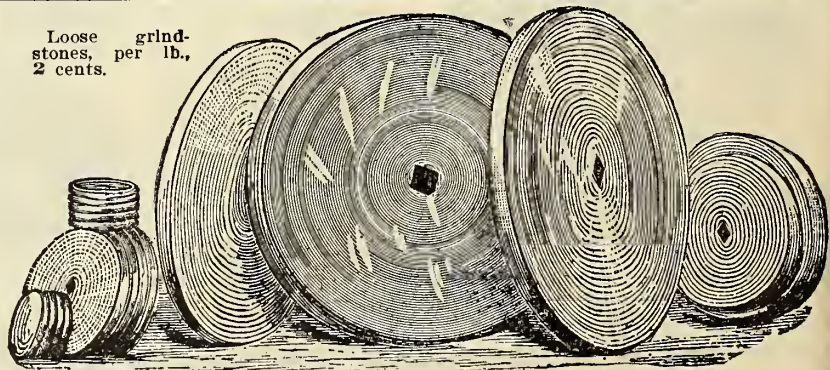
The B. B. B. has steel frame, ball bearings, water guard, water can, safety treads, tool rest.

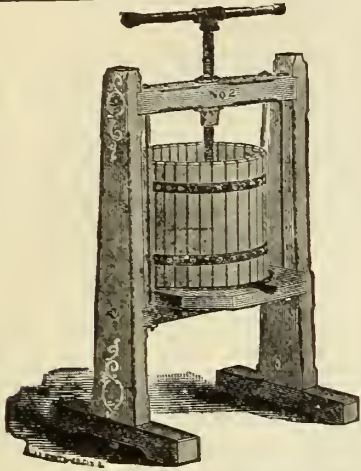
Shipped K. D. and Crated, with stone fully protected. Weight, 75 pounds.



Carry full line of loose stones of all sizes.

Loose grindstones, per lb., 2 cents.

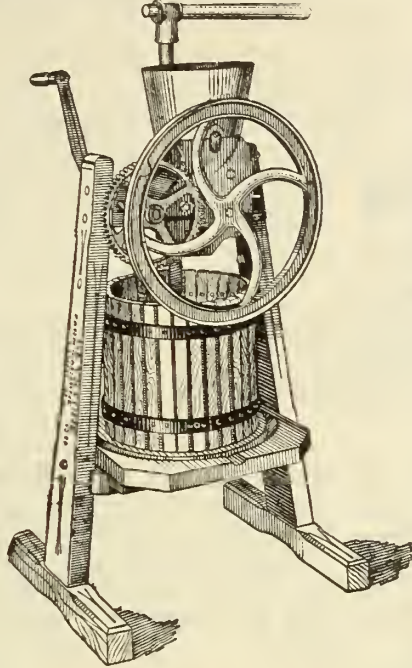
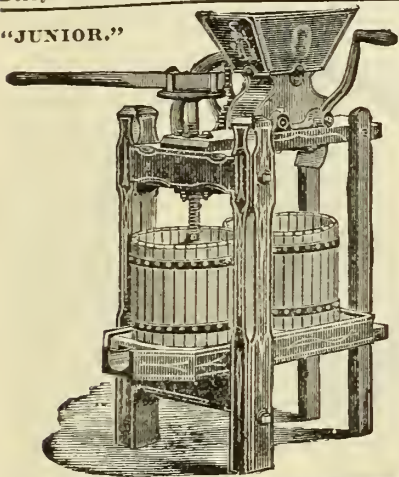




## BERRY PRESS

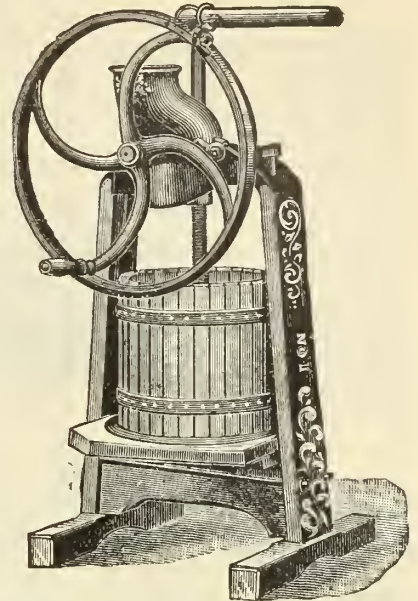
Berry Presses No. 1.....\$4.00  
 Berry Presses No. 2..... 4.50  
 Berry Presses No. 3..... 7.25

"JUNIOR."



## Baltimore Special Cider and Wine Mill.

Similar to the wine and cider mill shown in annexed cut, only it is larger, and will take larger apples, and, being a geared mill, will do much more rapid work.  
 Price.....\$10.50



## Wine and Cider Mill

This is a very handy little mill for making a small quantity of cider, 5 or 10 gallons at a time. All of the juice of the apples can be gotten out, but not so rapidly as with the other styles on this page. It is really intended more for grinding grapes and other small fruit for wine, and is so constructed as not to crack the seed.

No. 0—Single Cage Mill..... \$8.50  
 No. 1—Single Cage Mill..... 10.00

## "Junior" Hand Cider Mill.

This Mill is almost identical with the "Medium" and "Senior," except it is smaller, and it has only one handle. In the preparation of the pomace for cider, it is the same in all its parts.  
 Price.....\$12.50

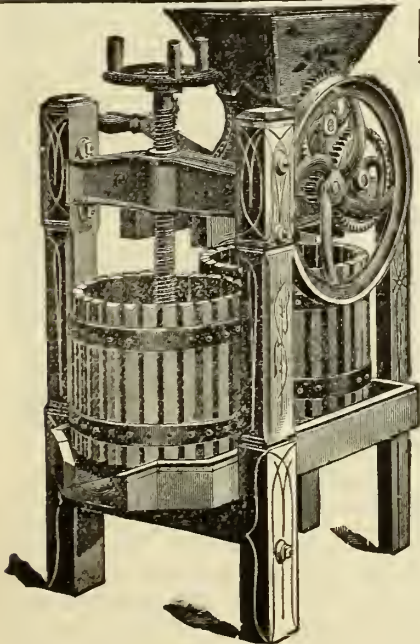
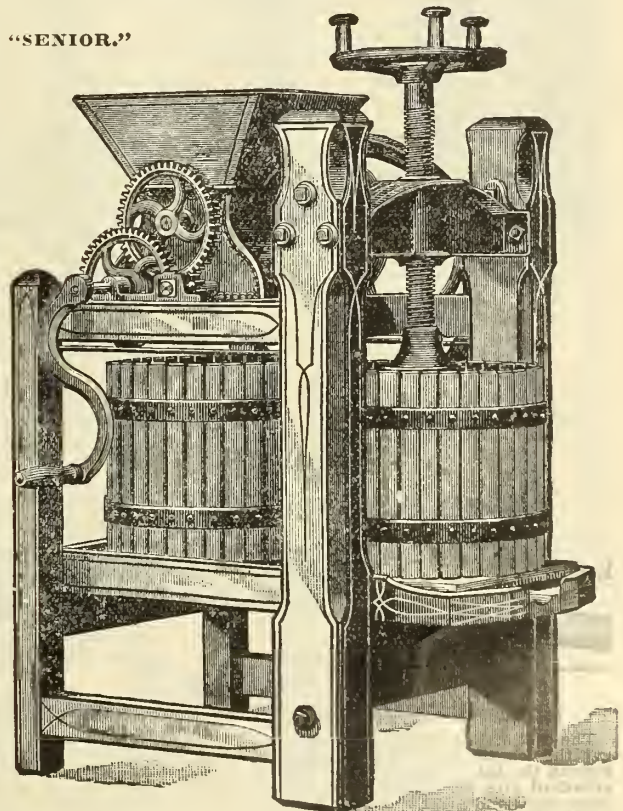
## "Medium" Hand Cider Mill.

A compromise between the "Junior" and "Senior," and a general favorite. Has only one handle.  
 Price.....\$17.00

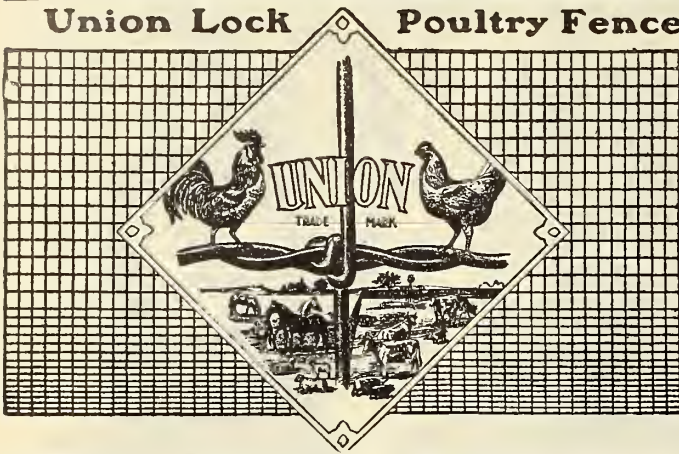
## "Senior" Hand and Power Cider Mill.

This is our largest-sized Mill, adapted for hand or power, with a detachable handle on either side. The top set of rolls first mash the fruit fine, and the bottom set grinds it, thoroughly breaking all the cells, so that the cider is entirely extracted. These mills produce more cider to a given quantity of apples than any other Mill on the market.  
 Price.....\$20.00

"SENIOR."



## Union Lock Poultry Fence



The horizontal lines of this fence are all composed of two No. 20 heavily galvanized steel wire twisted together.

Beginning at the bottom, the first 7 cables are 1 1/4 inches apart, the next 3 cables are 1 1/2 inches apart, then 6 cables 2 inches apart, and all above that 4 inches apart. This gives a mesh of 1 1/4 x 3 inches at the bottom, where it is needed for small chicks, and above 2 feet, where fowls can only reach when on the wing, the mesh is 3x4 inches.

The pickets are No. 19 galvanized steel wire, and are 3 inches apart. On account of the pickets being at right angles to the cables, this fence will fit any unevenness of the ground without cutting.

Because of its strength and construction, this fence requires no top or bottom rail and no more posts than the ordinary woven wire stock fence, or about one-half the number needed for poultry netting.

In strength, closeness of mesh, adjustability and economy, it is unexcelled.

	List price per roll.	Retail price when cut.	Retail when per run'g ft.
10 rod rolls, 165 ft., 24 in. wide.	\$5.60	\$2.80	2 1/4 c.
10 rod rolls, 165 ft., 36 in. wide.	6.90	3.45	2 3/4 c.
10 rod rolls, 165 ft., 48 in. wide.	8.30	4.15	3 1/2 c.
10 rod rolls, 165 ft., 60 in. wide.	9.60	4.80	4 c.
10 rod rolls, 165 ft., 72 in. wide.	10.80	5.40	4 1/2 c.
10 rod rolls, 165 ft., 84 in. wide.	12.30	6.15	5 1/4 c.

In comparing prices with ordinary poultry netting remember these bales are 15 feet longer.

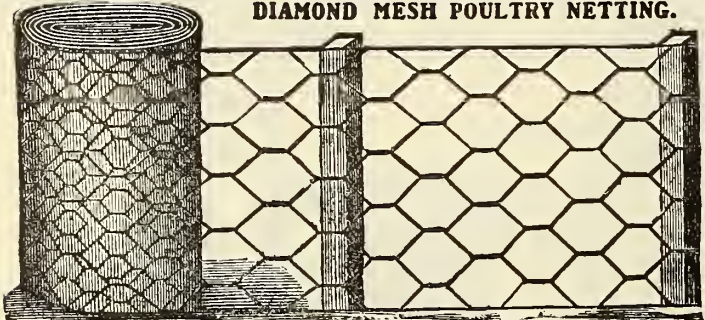
## M. M. S. POULTRY FENCING.

The salient features of merit in this fencing are found in its multitude of horizontal wires, the cabled selvage and cable every foot in the height of fence, to say nothing of the connecting mesh wires; this, coupled with its peculiar construction, bars any possibility of its contracting, sagging or narrowing together between the posts; therefore we do away with the top and bottom rail and fully one-half the number of posts ordinarily required, which reduces the actual cost of the completed fence to a minimum. These items alone insure a saving of fully 50 per cent. to the user, without taking into account the fact that a fence with a top rail must be much higher than one without to be of equal service, for a top rail, being visible, marks the height of the fence and gives the fowl something to light on. It is made of the best galvanized steel wire, smoothly and evenly woven, and retains its full height before as well as after stretching. Beginning at the bottom, the spacing between the horizontal wires for the first foot is 1 1/4 inches, second foot 2 1/4 inches, and 3 1/4 inches above.

	List price per roll.	Retail price when cut.	Retail when per running foot.
10-Rod Rolls, 165 ft., 24 in. wide....	\$4.00	\$2.10	1 3/4 c.
10-Rod Rolls, 165 ft., 30 in. wide....	4.70	2.45	2 c.
10-Rod Rolls, 165 ft., 36 in. wide....	5.30	2.80	2 1/4 c.
10-Rod Rolls, 165 ft., 48 in. wide....	6.50	3.42	2 3/4 c.
10-Rod Rolls, 165 ft., 60 in. wide....	7.70	4.05	3 1/4 c.
10-Rod Rolls, 165 ft., 72 in. wide....	8.70	4.57	3 3/4 c.
10-Rod Rolls, 165 ft., 84 in. wide....	9.90	5.20	4 1/4 c.



## 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.

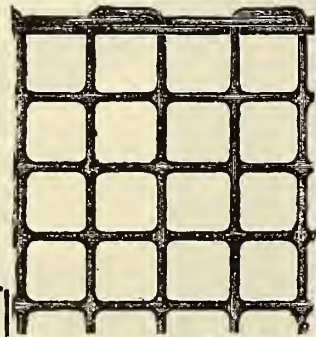
No.	In. Wide.	Sq. Ft.	Per Bale.	No.	In. Wide.	Sq. Ft.	Per Bale.
19	12	150	\$.75	20	12	150	\$.68
19	18	225	1.12	20	18	225	1.05
19	24	300	1.50	20	24	300	1.35
19	36	450	2.25	20	36	450	2.02
19	48	600	3.00	20	48	600	2.70
19	60	750	3.75	20	60	750	3.37
19	72	900	4.50	20	72	900	4.05

Price 1c. per sq. ft. in less than bale lots. Staples for fastening, 10c. per pound.

We also carry in stock a few sizes of one-inch mesh as follows:

No.	In. Wide.	Sq. Ft.	Per Bale.	No.	In. Wide.	Sq. Ft.	Per Bale.
19	24	300	\$3.90	20	24	300	\$3.30
19	36	450	5.85	20	36	450	4.95
19	48	600	7.80	20	48	600	6.60

## Galvanized Steel Wire Cloth



Used largely in corn-cribs to make them ratproof; also for making sieves, grain fan screens, etc. Widths, 14 to 48 inches.

2x2-3x3 mesh, sq. ft., 5c.  
4x4 mesh, sq. ft., 6c.

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.

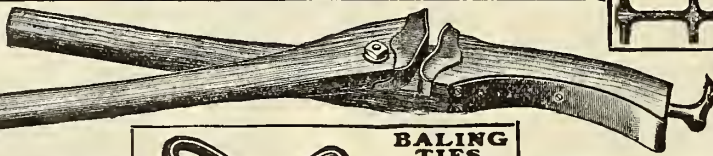
**Barbed Wire, Ribbon Wire, Plain Twisted Two-Stranded Wire, Plain Galvanized Wire, Plain Annealed Wire.**

Panel Wire.

Prices on application.

## Never Slip Stretcher,

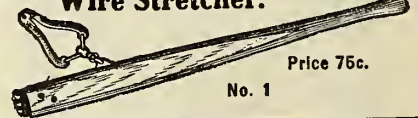
75c.



**BALING TIES.**

## Wire Stretcher.

Price 75c.

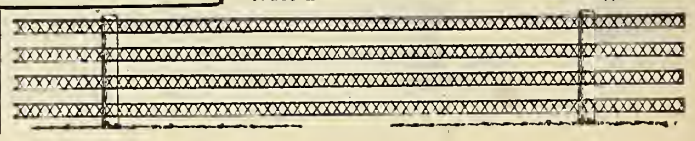


No. 1

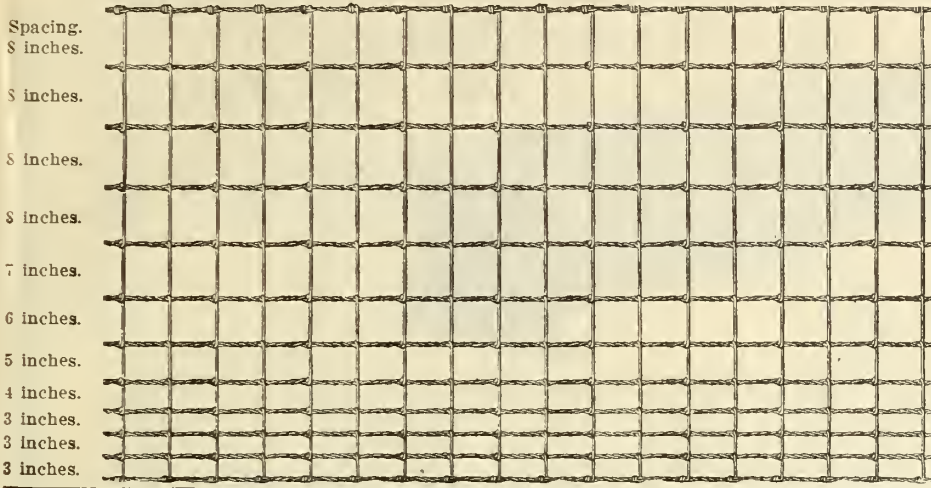
Truss and Cable Fence Wire. Prices on Application

The cost of Bale Ties is from 40 to 60 cents per ton of hay. To get the length of the tie required, add 3 inches to the measure around the bale when under pressure. We keep in stock only the standard size, No. 15, 8 1/2 feet long, but can furnish any of the other sizes and lengths on order at lowest prices. Retail price on application.

**ANNEALED BALING WIRE.**—Nos. 11, 12, 13, 14 and 16 always on hand at lowest market prices on application.







## Union Lock Field and Hog Fence.

In this fence nothing but the best No. 14 galvanized steel wire is used, and enough of it to insure sufficient strength to turn all stock that may come in contact with it and to give it durability. Every horizontal line is composed of two wires uniformly twisted together, and the picket is so twisted into the cable as to make it impossible for it to unlock or to get loose.

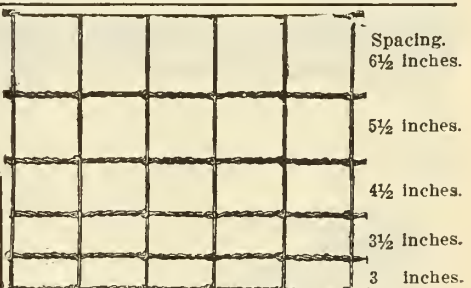
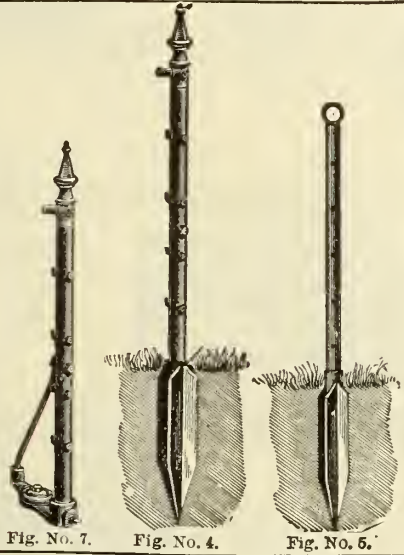
	List per rod.	Retail per rod.
18 in. high, 7 cables...	\$0.45	\$0.25
24 in. high, 7 cables...	.55	.30
31 in. high, 8 cables...	.65	.35
39 in. high, 9 cables...	.75	.41
47 in. high, 10 cables...	.85	.46
55 in. high, 11 cables...	.95	.52
63 in. high, 12 cables...	1.05	.57

## UNION LOCK MODEL HOG FENCE.

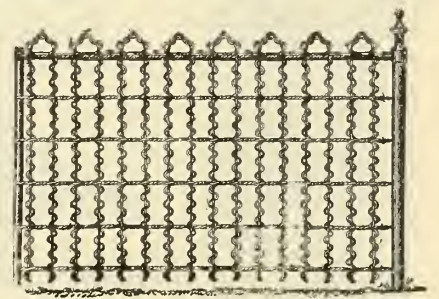
This fence is made in only two heights, 24 inches and 32 inches. In ordering this style of fencing always state Union Lock Model Hog Fence, giving the height, number of cables and price per rod, otherwise we will ship our Union Lock Field and Hog Fence.  
The Union Lock Poultry Fence will fit any unevenness of the ground without cutting, has 1 1/4-inch mesh at the bottom.  
24 inches high, 6 cables.....List, per rod, **48c.**      Retail, per rod, **26c.**  
32 inches high, 7 cables.....List, per rod, **58c.**      Retail, per rod, **32c.**

## STEEL POSTS and RAILS

For Picket Fence, 37 inches high.  
Fig. 4 shows Steel Gate and Corner Post, 2 inches outside diameter, with cast-iron base, each.....**\$4.00**  
Fig. 5 shows Steel (Pipe) Line Post, and ring to receive top rail, with cast-iron base.....**\$1.45**  
Fig. 7 shows Steel Gate and Corner Post for Stone Wall, 2 inches outside diam...**\$3.40**  
Steel Top Rail, 1 1/4 inches outside diameter, drilled and fitted, **14c.** per foot.  
Cut shows 24-inch fence, and twisted barbed or ribbon wire can be strung at the top.



## STEEL WEB PICKET FENCE.



**Especially for Lawns, Door-Yards, Cemeteries or Parks.**

Six cables, 37 inches, standard height. The pickets are made of three No. 12 galvanized steel wires, uniformly spaced 2 1/2 inches apart, and held firmly in place by cables 6 1/2 inches apart, each made of two No. 12 steel galvanized wires, making a very handsome combination.

In Steel Web Pickets we get a very strong picket by weaving a number of smaller wires together in which only one-third of the weight of the picket passes through the crimping machine, enabling us to use a much smaller wire for this part of the picket and requires but little to form it, therefore neither affecting the elasticity of the wire nor the galvanizing, but leaving the entire picket strong, tough and elastic.

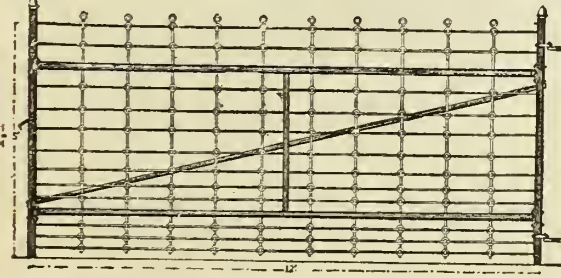
### Standard Fence, Pickets 2 1/2 Inches Apart.

6 Strands, 37 in. high.	List, per lineal foot,	18c.
	Retail per lineal foot,	11c.
Full rolls of Picket Fence 300 feet.		
Special heights to order as follows:		
4 Strands, 24 in. high.	7 Strands, 43 in. high.	
5 Strands, 30 in. high.	8 Strands, 50 in. high.	

### HEAVY LAWN GATE No. 13.

	List price.	Retail price.
Same style construction and top as No. 22 Farm Gate shown.		
3 1/2 ft. wide, 4 ft. high..	\$5.75	\$5.25
3 1/2 ft. wide, 5 ft. high..	6.25	5.75

## FARM AND RAILROAD GATE, No. 22.

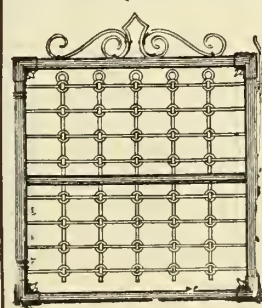


Frame 1 1/4 inches diameter, acorn tops, adjustable malleable hinges, heavy screw hooks to hang on wooden posts, hook catch, steel diagonal brace rod support. All wire work passes through the frame both ways. This Gate is extra strong.

	List price.	Retail price.
No. 22—10 feet wide, 4 feet high....Each,	\$8.00	\$7.25
No. 22—12 feet wide, 4 feet high....	9.00	8.10
No. 22—10 feet wide, 5 feet high....	9.00	8.10
No. 22—12 feet wide, 5 feet high....	10.00	9.00

Add 4 inches to sizes of gates for allowances for Hinges and Latches.

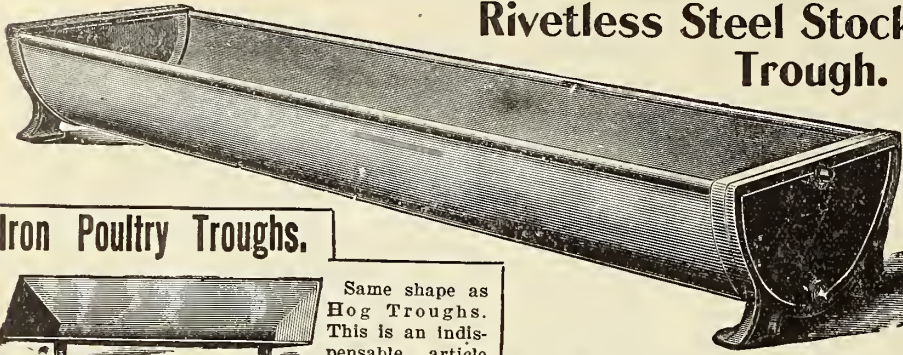
## TOP SCROLL No. 11



### No. 11 LAWN GATE. Prices.

3 1/2 ft. wide, 4 ft. high. List price,	\$6.25.	Retail price, \$5.65.
3 1/2 ft. wide, 5 ft. high. List price,	\$6.75.	Retail price, \$6.15.

## Rivetless Steel Stock Trough.



The only Steel Trough constructed without the use of rivets. Will not crack or burst on account of freezing. This Trough is made of No. 12 gauge steel, curved in semi-circular form, with ends of cast iron fitted in each end of steel and held in place by steel bands instead of rivets. These bands are shrunk around the end edges of steel, binding it firmly to the flange of the end, thereby making a perfectly water-tight joint.

## Iron Poultry Troughs.



Same shape as Hog Troughs. This is an indispensable article for parties raising

- poultry. Is readily cleaned, and no leaking.
- |  |      |
|--|------|
| No. 0—8 in. long, 3/4 in. wide at top, 1/4 in. deep..... | 20c. |
| No. 1—20 in. long, 4 in. wide at top, 1/2 in. deep.....  | 35c. |
| No. 2—23 in. long, 7 in. wide at top, 3 in. deep.....    | 70c. |
| No. 3—29 in. long, 7 in. wide at top, 3 in. deep.....    | 85c. |

	List.	Retail.
No. 3—4 feet long.....	\$9.25	\$5.00
" 3-5 " ".....	11.50	6.25
" 3-6 " ".....	13.50	7.30
" 3-8 " ".....	17.25	9.35
" 3-10 " ".....	21.60	11.70
" 3-12 " ".....	25.80	13.94
" 3-14 " ".....	28.35	15.35
" 3-16 " ".....	31.75	17.15

No. 3 Troughs are 18 in. wide, 10 in. deep, hold 8 gal. per ft.

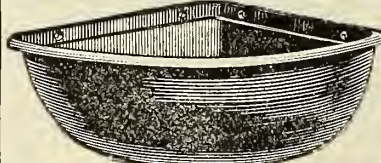


## IRON HOG TROUGH

No danger in winter, when frozen full of ice, for them to burst. Twelve 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 pounds. Price, 40c. per foot.

	List.	Retail.
No. 4—4 feet long.....	\$10.25	\$5.55
" 4-5 " ".....	12.85	6.94
" 4-6 " ".....	15.35	8.30
" 4-8 " ".....	19.50	10.55
" 4-10 " ".....	24.40	13.20
" 4-12 " ".....	27.50	14.85

No. 4 Troughs are 20 in. wide, 11 in. deep, hold 10 gal. per ft. Smaller sizes furnished on application. Special Discount for Cash.



## Corner Mangers

The "Sanitary."

The rim is made of a superior quality of iron. The body of galvanized wrought steel. One of the best Mangers in use. The government is using these

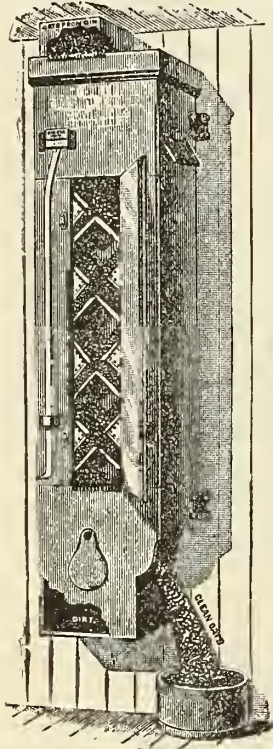
"Sanitary" Mangers in preference to any other, large quantities being shipped to the Philippines.

	List.	Retail.
No. 2—22 quarts.....	\$1.75	\$1.40

We also have on hand CAST-IRON MANGERS, as follows:

	Price.
No. 2—17 in. long, 17 in. wide, 10 in. deep, roll front.....	\$1.25
No. 1—16 in. long, 16 in. wide, 9 1/2 in. deep, flat front.....	1.15

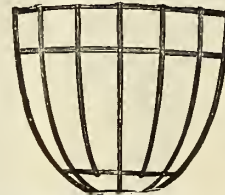
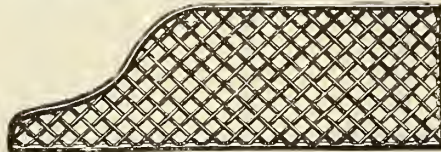
Special Prices in Quantities.



## CRIMPED WIRE 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 and end. 6 feet long, 25 inches high. Price, each, \$3.50.

Special Prices in Quantities. Larger sizes on application. Can furnish on application square crimped wire stall guards, used for box stalls. Give size wanted. Write for prices.



## Wrought Hay Racks.

Far superior to cast-iron Racks, as frequently used. Price.....\$1.65

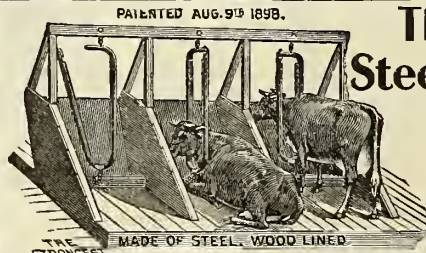
## HIGBIE SELF-ACTING OATS CLEANER.

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, unless all oats are drawn through a Higbie Self-Acting Oats Cleaner.

Extending from top to bottom of the Cleaner are 11 downwardly inclined screens, operating in pairs. Below each pair of screens is located an A-shaped table; thus the oats fall alternating from the screens to the tables, the object of the A-shaped tables being to divide the oats and give them a very rapid impetus before dashing to the next set of screens. The operating valve is located in the

top of the Cleaner. Directly below this is a large coarse grate, which permits the oats to pass through, but throws off everything larger, such as stones, sticks, glass or any coarse trash that may be in the oats. Below this grate are the zigzag screens and the tables extending through the entire Cleaner to the discharge spout below. The dirt box is in the base of the Cleaner, and may be emptied through a hand-hole in the bottom. Price.....\$18.00.

In use by Express Companies, Fire Departments, Baltimore Transfer Co., Armour, Swift, etc.



## The Taylor Steel Stanchion

The Strongest Stanchion Made. Since the frame consists entirely of steel and malleable iron, it is practically indestructible and will last a lifetime.

Gives Free and Natural Movement of the Head and Neck. Swings on chains, top and bottom, and gives much more freedom to the cow's head than the old style stiff Stanchion. Practically the cows are as comfortable as when in the field; for they are able to lick their sides and lie down with the head on the shoulder as nature intended.

No Mortised Corners to Wear Loose. The corners are formed of solid angle steel, bent to shape, and are as strong, if not stronger, than the straight sides.

Not Cumbersome About Neck of Cattle. The angle steel used in the Taylor Stanchion, which is 1 1/4 inches wide, is less than one-fourth as large as the wood used in other Stanchions.

Dimensions of Stall. For ordinary-sized cattle give each a stall 3 feet wide by 4 feet 6 inches long, floor space. Make gutter along rear of stall of sufficient depth to catch all droppings. A stall so constructed with the Taylor Stanchion insures a larger production of milk.

Price, Style No. 1.....	\$1.50
Extra Heavy, No. 2.....	2.00

## OX YOKES COMPLETE.

No. 2—7 1/2 in. on neck by 20 in. between bows, Retail price.....	\$6.50	No. 6—9 1/2 in. on neck by 24 in. between bows, Retail price....	\$9.50
No. 3—8 in. on neck by 21 in. between bows, Retail price.....	7.50	No. 7—10 in. on neck by 25 in. between bows, Retail price.....	10.00
No. 4—8 1/2 in. on neck by 22 in. between bows, Retail price.....	8.00	Ox Bows, per pair, regular, Retail price.....	1.20
No. 5—9 in. on neck by 23 in. between bows, Retail price.....	9.00	Ox Bows, per pair, heavy, Retail price.....	1.40

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

FIG. 7 REGULAR

IRON

TRACES

## STABLE REQUISITES

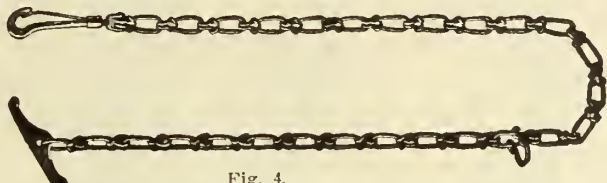
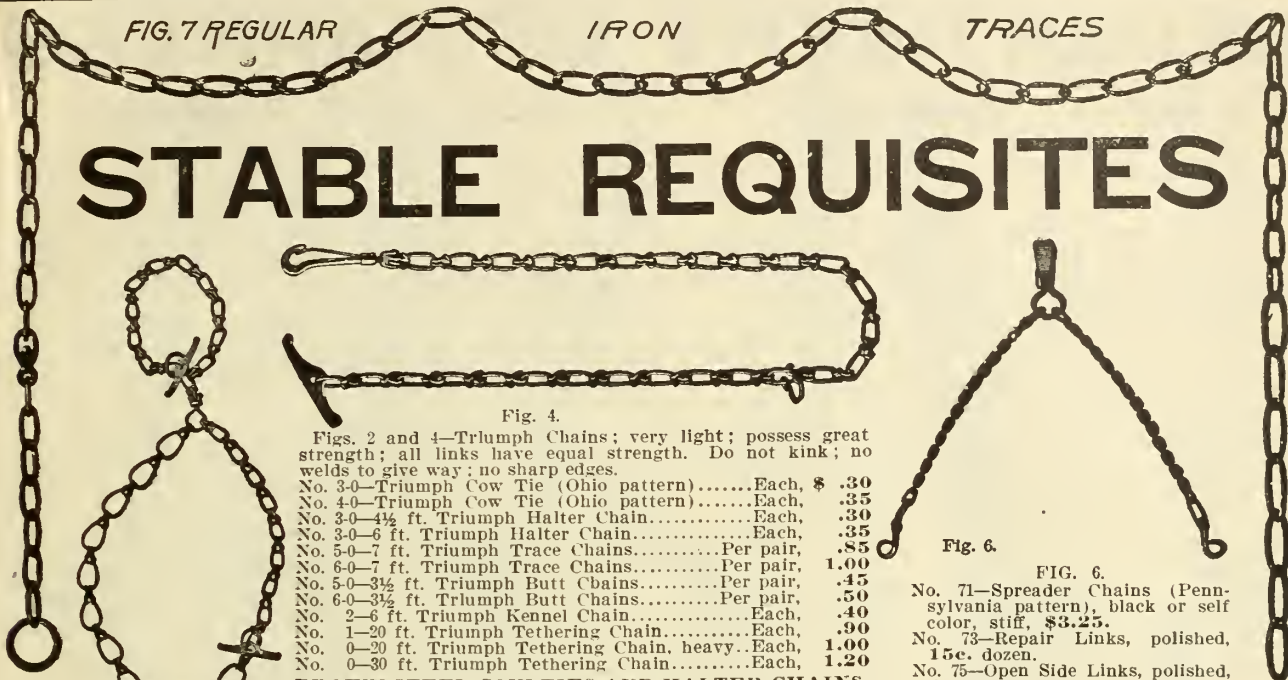


Fig. 4.

Figs. 2 and 4—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, \$ .30
- No. 4-0—Triumph Cow Tie (Ohio pattern).....Each, .35
- No. 3-0—4½ ft. Triumph Halter Chain.....Each, .30
- No. 3-0—6 ft. Triumph Halter Chain.....Each, .35
- No. 5-0—7 ft. Triumph Trace Chains.....Per pair, .85
- No. 6-0—7 ft. Triumph Trace Chains.....Per pair, 1.00
- No. 5-0—3½ ft. Triumph Butt Chains.....Per pair, .45
- No. 6-0—3½ ft. Triumph Butt Chains.....Per pair, .50
- No. 2-6 ft. Triumph Kennel Chain.....Each, .40
- No. 1-20 ft. Triumph Tethering Chain.....Each, .90
- No. 0-20 ft. Triumph Tethering Chain, heavy.....Each, 1.00
- No. 0-30 ft. Triumph Tethering Chain.....Each, 1.20

### BROWN STEEL COW TIES AND HALTER CHAINS.

- No. 3-0—Brown Steel Cow Ties (Ohio pattern).....Each, 25c.
- No. 4-0—Brown Steel Cow Ties (Ohio pattern).....Each, 30c.
- No. 3-0—Brown Steel Halter Chains, 4½ feet.....Each, 25c.

Fig. 2.



Fig. 6.

FIG. 6.

- No. 71—Spreader Chains (Pennsylvania pattern), black or self color, stiff, \$3.25.
- No. 73—Repair Links, polished, 15c. dozen.
- No. 75—Open Side Links, polished, 10c. each.
- No. 58—Long Link Log or Ox Chain, 12x¾, \$1.75.
- No. 58—Long Link Log or Ox Chain, 14x¾, \$2.00.
- No. 58—Long Link Log or Ox Chain, 14x½, \$2.50.
- No. 58—Long Link Log or Ox Chain, 14x¾, \$3.00.
- No. 46—Cart Tug Chains, per pair, 30c.

### Fig. 3—BREAST CHAINS.

- Double Stiff, 5-16.....Pair, \$1.25
- Double Stiff, ¾.....Pair, 1.20
- Double Slack.....Pair, .80
- Single Slack.....Pair, .60

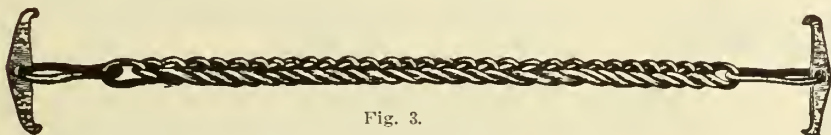


Fig. 3.

Fig. 1—No. 67—Fifth Chain—See border.—Round hook, ring and swivel, bright or black, made with stretchers also if desired. No. 67, 10x¾, with Reg. Hook, \$1.75. No. 68, 10x¾, with Patent Hook, \$2.40. No. 1, Pennsylvania Pattern, black, stiff, heavy, \$6.00.

Fig. 7—REGULAR IRON TRACES.—See border.  
7, 8, 2, retail price, per pair, 50c. 7, 12, 2, retail price, per pair, 65c.  
7, 10, 2, retail price, per pair, 55c. 7, 14, 2, retail price, per pair, 75c.  
7, 16, 2, retail price, per pair, 90c.

### 20th CENTURY HORSE CLIPPER.

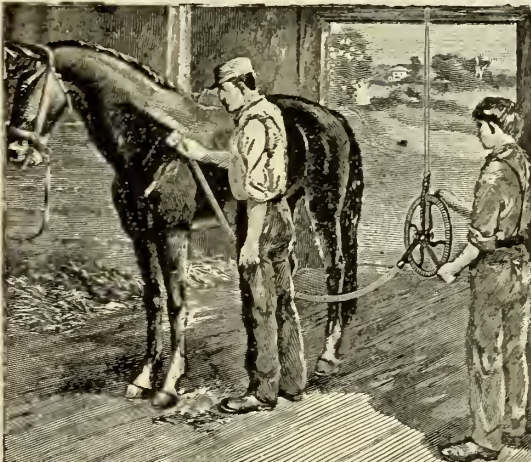


FIG. 1. NO. 67-FIFTH CHAIN

It is needless to tell a horseman the necessity for clipping horses. All of it is now acknowledged, but we will say the STEWART 20th CENTURY CLIPPER is one of the best on the market today. It is suspended from ceiling by a rope, permitting all parts of the horse to be reached with facility. Weight, boxed, 20 pounds. Price, complete, \$5.00.

**WORLD'S RECORD BROKEN AT ST. LOUIS FAIR.**—Horse clipped in 13¾ minutes. Previous highest record in New York was 14 minutes.

### Stewart Sheep Shearing Machine.

Experience has proved that from 8 to 24 ounces more wool can be obtained from each sheep by the shear machine. As this extra wool is taken next to the hide, it is the most valuable part of the fleece. Machine is strong and simple; a boy can turn for two shearers without fatigue. Wool being free from second or double cuts is increased in value and there is a saving in sheep from hand-shear stabs, all of which practical men admit.

Extra wool obtained the first season more than pays for machine and all accessories. Weight, net 38 pounds; boxed, 65 pounds.

Price, complete with 4 combs and 4 cutters.....\$12.75  
Extra bottom and extra top plates, each......50

**World's Record Broken at St. Louis Fair.**—One sheep sheared clean in 1 minute and 30 seconds; also 3 sheep in 6 minutes and 40 seconds, and operator caught his sheep.

After shearing by hand machine clipped 17 ounces more wool from same sheep.



FIG. 1. NO. 67 FIFTH CHAIN

DEPARTMENT OF HARNESS

BUGGY HARNESS.

No. 700—SINGLE BUGGY HARNESS.

Bridle, 5/8 inch; Traces, 1 inch; Saddle, 2 1/2 inches; Breast Collar and Breeching, single leather; Flat Lines, with Web-Hand parts; X-C Mounting. Price, with Collar and Hames, \$7.20; with Breast Collar, \$6.60.

No. 603—SINGLE BUGGY HARNESS.

Bridle, 5/8 inch; Traces, 1 1/4 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, \$10.25; with Breast Collar, \$9.60.

No. 4—SINGLE BUGGY HARNESS.

Bridle, 5/8 inch; Traces, 1 1/4 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, \$12.60; with Breast Collar, \$11.50.

No. A—HAND-MADE SINGLE BUGGY HARNESS.

Bridle, 5/8 inch; Traces, 1 1/4 inches; Saddle, 3 inches. Hand Laced, Leather Lined; Breast Collar and Breeching, folded, with wave lay; flat Lines; full Nickel or imitation Rubber Mounting; Hand Stitched. Price, with Collar and Hames, \$22.25; with Breast Collar, \$20.50.

No. 29—DOUBLE BUGGY HARNESS.

Bridle, 5/8 inch; Traces, 1 inch; fancy bound Pads; 1 1/4 inch side pieces and folded bellybands; Turnback, 3/4 inch; Hip Strap, 5/8 inch, with patent leather Drops; flat Lines; Kip Collars; X-C Mounting. Price, \$19.20.

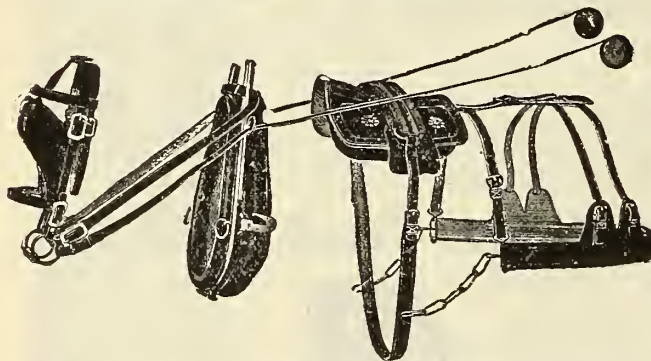
No. 19—DOUBLE BUGGY HARNESS.

Bridle, 5/8 inch; imitation Chain Front; Traces, 1 1/4 inches; fancy bound Pads under same; 1 1/4 inch side pieces and folded Bellybands; Turnback, 3/4 inch; no Hip Strap; flat Lines; patent leather Collars; full Nickel or imitation Rubber Mounting; imitation Hand Stitched. Price, \$24.00.

No. 35—DOUBLE BUGGY HARNESS.

Bridle, 5/8 inch; Traces, 1 1/4 inches; plain Pads, with leather Housings under same; 1 1/4 inch side pieces; folded Bellybands; Turnback, 3/4 inch, waved; flat Lines; patent leather Collars; Nickel or imitation Rubber Mounting; imitation Hand Stitched; nicely finished. Price, \$30.00.

DUMP CART HARNESS.



No. A—DUMP CART HARNESS.

Bridle, 3/4 inch; Lines, 3/4 inch; Breeching, 3 inches; No. 5 Saddle, leather covered; No. 62 Iron-bound Hames; 7/8 inch Hame Straps; Tug Chains; Kip Team Collar. Price, \$12.25.

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 1/2 inches Turnback, 1 1/4 inch double Hip Straps. Price, \$18.00.

PRICES ON CHEAP CART HARNESS ON APPLICATION.

SAVE MONEY ON THE FARM BY USING

Rivet Punches.

THE "FARMERS' FACTOTUM."

FOR MENDING HARNESS, BELTING, ETC.

Adapted for No. 1 Tubular Rivets, which are sold by the hardware trade. This little machine will save more time and money for the farmers and livermen than anything on the market.

PRICE.

Tom Thumb.....	40c.	Plymouth .....	50c.
Uncle Sam.....	50c.	Rivets, box of 100.....	15c.
Rivets, box of 50.....	10c.	Rivets, four boxes.....	50c.

CARRIAGE HARNESS.

No. 93—SINGLE CARRIAGE HARNESS.

Bridle, 5/8 inch; Traces, 1 1/4 inches; Saddle, 3 1/2 inches; Breast Collar and Breeching, folded, with straight lay; flat Lines; X-C Mounting; imitation Hand Stitched. Price, with Collar and Hames, \$13.50; with Breast Collar, \$12.60.

No. 94—SINGLE CARRIAGE HARNESS.

Bridle, 3/4 inch, Chain Front; Traces, 1 1/4 inches; Saddle, 4 inches; Breast Collar and Breeching, folded, with straight lay; flat Lines; Nickel Hook and Terrets, and balance of Mounting X-C; imitation Hand Stitched. Price, with Collar and Hames, \$14.25; with Breast Collar, \$13.25.

No. 354—SINGLE CARRIAGE HARNESS.

Bridle, 5/8 inch Front; Traces, 1 1/4 inches; Saddle, 3 inches; Hand Laced, Leather Lined; Breast Collar and Breeching, folded, with wave lay; flat Lines; full Nickel or imitation Rubber Mounting; imitation Hand Stitched. Price, with Collar and Hames, \$15.00; with Breast Collar, \$13.25.

No. 20—EXPRESS HARNESS.

Bridle, 3/4 inch; Traces, 1 1/4 inches; to buckle to Hames or with Heel Chains and attached to Hames; Saddle, 4 1/2 inches, with Kersey Lining; folded Breeching, with straight lay; double Hip Straps; Brass or Nickel Mounting; imitation Hand Stitched. Price, \$21.50.

No. 27—EXPRESS HARNESS.

Bridle, 3/4 inch; Traces, 1 1/4 inches; Saddle, 4 inches; red wood Hames, with X-C Ball Top; folding Breeching, with straight lay; double Hip Straps; X-C Mounting. Price, \$15.00.

No. 18—EXPRESS HARNESS.

Bridle, 3/4 inch; Traces, 1 1/4 inches, 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, \$18.60.

No. 10 1/2—DOUBLE WAGON HARNESS.

Bridle, 3/4 inch; Harness Leather Winkers; Ball Top Hames; 1 1/2 inch Traces, riveted to Hames, with Chain Ends; folded Pad and Breeching; 3/4 inch double Hip Strap; Kip Face Collars; flat Lines. Price, \$22.75.

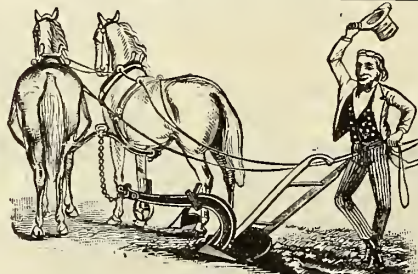
No. 9—DOUBLE WAGON HARNESS.

Bridle, 3/4 inch; patent leather Winkers; Ball Top Hames; 1 1/2 inch Traces, riveted to Hames, with Chain Ends; folded Pads and Breeching; 3/4 inch double Hip Strap; Kip Collars; flat Lines; imitation Hand Stitched. Price, \$25.75.

No. 17—HEAVY DOUBLE WAGON HARNESS.

Bridle, 3/4 inch; patent leather Winkers; Box Loop Checks; Brass Ball Top Hames; 2 inch Traces, riveted to Hames, with Chain Ends; Heavy Pads and Breeching; 1 inch double Hip Strap; Kip Collar; flat Lines; imitation Hand Stitched. Price, \$38.40.

HORSEBACK GOODS ON APPLICATION.



THE SHERWOOD TUGLESS HARNESS.

This Harness is specially suited to plowing in orchards, as there are no chains or singletrees to cut the bark of the trees. It can be adapted to any kind of work.

THIS HARNESS CONSISTS OF—

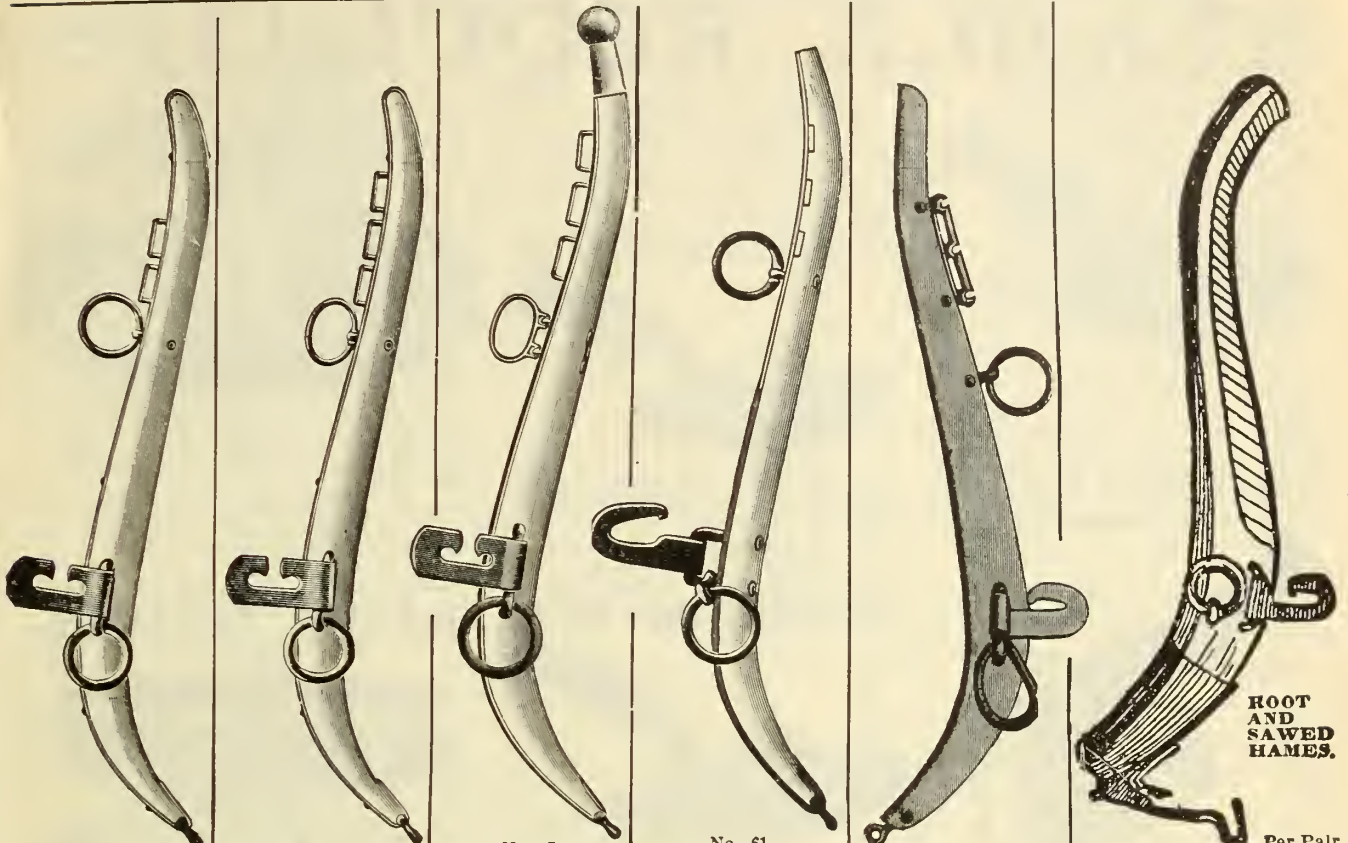
- 1—Yoke suspended underneath horses, made of spring steel, oil tempered.
  - 2—Back-bands made of best quality four-inch webbing.
  - 3—Hames, good quality, same style as ordinarily used either on high or low tops.
  - 4—Short tugs, short steel rods properly bent, with short chains attached for purpose of adjustment.
  - 5—Draft chain, seven feet in length.
  - 6—Hame straps, good quality leather.
- Price, No. 2—For horses weighing from 1000 to 1300.....\$12.00  
(This is the regular size for farm work.)

"RAPID" HARNESS MENDERS.



Patented—February 2, 1886; March 27, 1888.

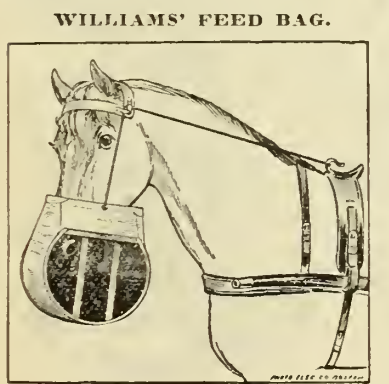
The finest way of applying a buckle known. Any part of a harness can be mended in a very short time—no riveting, no sewing to rot away, and no special tools required. Price, 25c. Per Gross. By Mail, 35c.



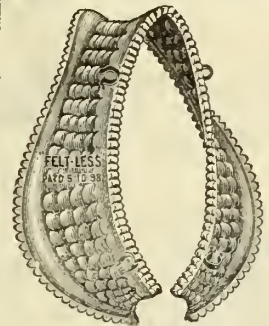
<p><b>No. 2.</b> ¾-inch steel backs. Two top strap loops. One stud line ring. Single steel hooks and rings. Varnished. Size, 19 to 20 inches. Price.....40c. pair.</p>	<p><b>No. 1.</b> ¾-inch steel backs. Three top strap loops. One stud malleable oval line ring. Single steel hooks and rings. Varnished. Size, 19 to 20 inches. Price.....50c. pair.</p>	<p><b>No. 15.</b> Rock elm wood. ¾-inch steel backs. Three top strap loops. Two stud line rings. Clip staples and hold-backs. Double steel hooks and rings. X. C. ball, painted red. Size, 19 to 21 inches. Price.....75c. pair.</p>	<p><b>No. 61.</b> <b>VIRGINIA CART.</b> Rock elm or ash wood. ½-inch stiff bottom loops. ¾x¼-inch steel backs. Three mortise top loops. Heavy wrought steel hooks. Varnished. Polished irons. Size, 19 to 22 inches. Price.....80c. pair.</p>	<p><b>Mocks Steel Hame</b> Rust-proof, electro-galvanized. Non-breakable. For heavy work, such as contractors and lumbermen, etc. Price, 19 to 21 in., per pair, \$1.00. 22 to 24 in., per pair, \$1.10</p>	<p><b>ROOT AND SAWED HAMES.</b> Per Pair. Loudon Patent.....\$1.00 Loudon Tie..... .75 Taylor Root Pat.... .60 Taylor Root Tie..... .50 Sawed Patent..... .50 Sawed Tie..... .30 <b>Special prices to both wholesale and retail dealers.</b> <b>HAME STRINGS.</b> Black. ¾..12c. each, \$1.25 doz. ¼..15c. each, 1.50 doz. Rawhide. ¾..10c. each, \$1.00 doz.</p>
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**MODOC FEED BAG.**  
Plain wood bottom, overhead rope, with patent pocket.  
**Our Special Price.....35c.**

**PIONEER FEED BAG.**  
Patent pocket, bridle and pulley attachments. Patent center-grooved wood bottoms and leather ventilators.  
**Our Special Price.....\$1.00**



**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**



**SWEAT PADS.**  
Felt-Less.  
Pinked, Felt Edges, Composite Filling, Four Hooks. Old Gold Drill, best on the Market, 50c.  
Cheaper Old Gold, 45c.

**BROWN AND WHITE DRILL PADS.**  
10-inch..... 25c.  
11-inch..... 30c.  
12-inch..... 35c.

**PLOW BOY BACK BAND HOOKS.**  
Per pair, 3½ in.....10c.  
Per pair, 4 in.....12c.

**HORSE COLLARS.**  
**No. 56-LIGHT DRAFT.**  
Split leather front, duck face.  
Price.....75c.

**No. 190.**  
**DRAFT COLLARS.**  
Split leather back and rim duck face. Price, 90c.

**No. 1101.**  
**TEAM COLLARS.**  
Heavy. Price, \$1.25.

**No. 136-KIP TEAM.**  
Sheep faced. Price, \$1.75.

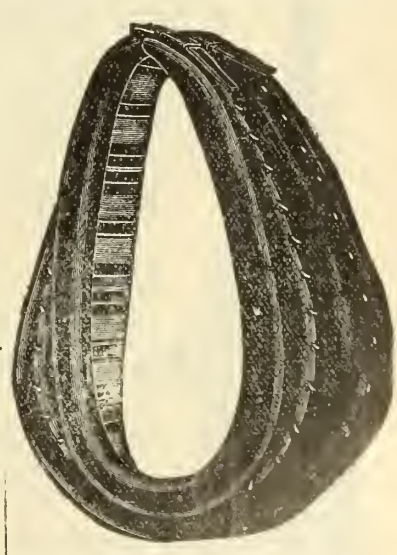
**No. 155-SCOTCH KIP.**  
Back and rim tick faced.  
Price.....\$2.20

**No. 760.**  
**HEAVY KIP TEAM.**  
Sheep faced. Price, \$2.00.

**FOLDED DUCK BACK BANDS.**



42 and 44 in. 40c.  
46 and 48 in. 50c.



**WEB BACK BANDS.**  
No. 1-3½ in., 42 in. long..... 20c.  
No. 1-4 in., 42 in. long..... 25c.  
No. 2-3½ in., 42 in. long..... 15c.  
No. 2-4 in., 42 in. long..... 20c.

# STABLE REQUISITES.

No. 133.



All steel, close back, 8 bars, plain knocker lacquered, enameled handle, brass ferrule, oval face, shank running through handle and riveted. Packed one dozen in box. Cases made for 24 dozen. Price 20c. each, \$2.00 per dozen.

## 8 BARS, HAND RIVETED.

Patent Applied for.



No. 480.

No. 480—Columbia—Lacquered, 25c. each. Packed one dozen in box. Cases are made for 24 dozen.

Price \$2.50 per dozen.

## HARTMAN'S IMPROVED HITCHING POST.

Cannot be broken or pulled out. Made of tubular steel, thoroughly painted. Anchored at the bottom and at the ground level. These posts furnished with Weldless Steel Chain and Spring Snap complete. Price complete \$1.75.



## No. 1 Web Halters.

Continuous piece No. 1 Web through metal corners. Leather chin piece. Rope Lead, leather latch, with snap.

PRICE 25 cents.

## No. 490.

EIGHT BARS, EXTRA HEAVY. All steel shank runs through handle and is riveted. Price 25c. each, \$2.50 per dozen. Packed one dozen in box. Cases are made for 24 dozen.

## ALL STEEL, CLOSE BACK.

No. 800.



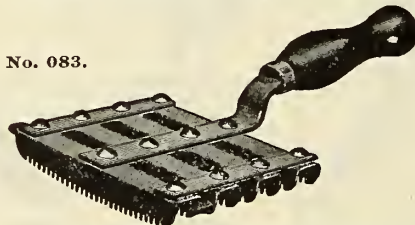
All steel, close back, lacquered, extra size, oval face, curved knockers, braced shank extending through handle and riveted, enameled handle, brass ferrule, 8 bars.

Packed one dozen in a box. Cases made for 24 dozen.

Price 25c. each, 5 for \$1.00.

## ALL STEEL, OPEN BACK.

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.

Each 15c., \$1.50 per dozen.

No. 699.

## Adjustable Web Halters.

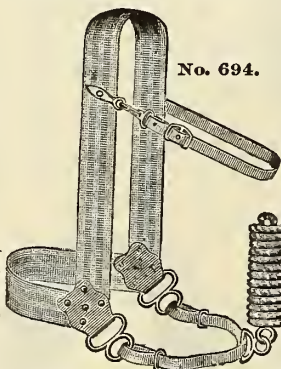
Continuous piece, solid color, No. 1 extra quality web, folded through metal corners, adjustable buckle. Leather chin piece with buckle. Rope lead, leather latch, snap.

PRICE..... 40c.

No. 696.

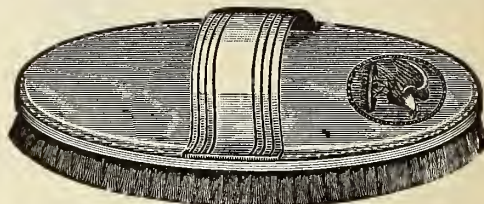
## Fancy Striped Halters.

Corners bound with leather, riveted to ring loops. Leather chin piece. Rope lead, leather latch, snap. Price 30c.



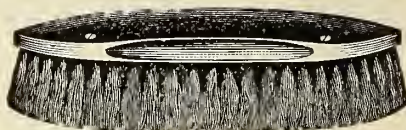
No. 694.

## LEATHER BACK BRUSHES.



- No. 35.—Patent Leather Back, each... 40c.
- No. 123—Yellow Leather Back, each... 50c.
- No. 400—Yellow Leather Back, each... 60c.
- No. 999—Russet Leather Back, each... 90c.
- No. 80—All Bristle, Russet Leather Flexible Back, Army, each... \$1.25
- No. 445—All Bristle, Russet Leather, Flexible Back, Army, each... 1.50
- No. 100—London, warranted all white Bristle, each..... 2.00

## DANDY BRUSHES.



- No. 10—Dandy..... Each 20c.
  - No. 20—Dandy..... " 25c.
  - No. XX—Palmetto Dandy..... " 40c.
  - No. 940—Dandy..... " 45c.
  - No. 7000—Dandy, made of selected fine root..... " 60c.
- All of above are packed six in a box.
- No. 707—Grenelle Brushes, extra fine, each..... 60c.

No. 238.

## Cyclone Leather Halters.

One and a-quarter inch, with 1 1/4-inch leather lead. Price \$1.35.

No. 242—1 1/4 inch, with 1 1/4-inch leather lead.

Price.....\$1.25.

## Rope Cattle Ties.

No. 652—1/2 in. Manila rope, 8 ft. long, single snap. Price 30c. No. 655—1/2 in. XX Sisal rope, 8 ft. long, single snap. Price 20c.



No. 238

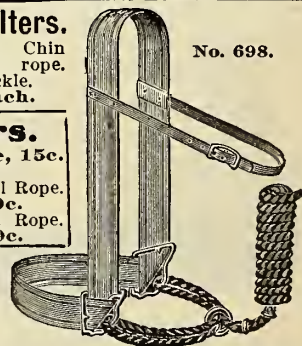
## No. 698. Jute Web Halters.

Jute Web, metal corners. Chin piece, one continuous piece rope. Leather throat latch and buckle. Price.....35c. each.

## Rope Halters.

- No. 684 1/2 in. Jute Rope, 15c. each.
- No. 688—One-half inch XX Sisal Rope. Price.....20c.
- No. 690—One-half inch Manila Rope. Price.....40c.

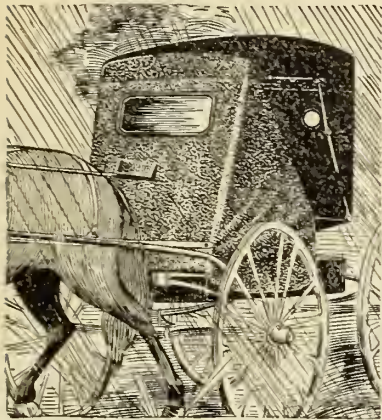
All of our rope goods are of best quality, standard size and full length. Order by number for any kind of Halter.



No. 698.

## ROPE HORSE TIES.

- No. 652—Half Inch Manila, ten feet long (two snaps)..... Price 35 cents.
- No. 667—Half Inch XX Sisal, ten feet long (two snaps)..... Price 25 cents.



## The Blizzard Adjustable Storm Fronts.

For Buggies, Phaetons and Automobiles.

All Who Drive in Cold or Wet Weather

Will find the Blizzard Storm Front to be indispensable. It is adjusted to any buggy, carriage or automobile front in 30 seconds. It closes up the vehicle completely, keeping the occupants snug and dry.

It shuts out the cold biting winds, as well as the rain and snow, and makes driving in the roughest storm as comfortable as in clear weather. If only used once, would be well worth the cost in the comfort it gives and the saving of suffering and possible sickness; yet it is so strong and well made that it will last for years, and folds up so compactly that it may easily be stowed away in the vehicle at all times when not in use.

The celluloid window allows an unobstructed view of the road; the line pocket is very large, and two horses can be handled with ease. Fits any buggy, and can be put on or taken off in 30 seconds without getting out of the buggy.



### TO PUT IT ON.

Place one hook over a prop, draw the other hook over and hook it on the other prop. An elastic cord connects the two hooks and holds the storm front securely in place. At the dash is another elastic cord with a hook at each side. Place a hook on one side of the dash, draw the other hook over and place it on the other side. This is done in 15 seconds.

### FOR PHAETONS AND STANHOPEs.

- No. 1—Para Rubber Cloth, 28 ounce.....\$7.00
- " 2—Extra Quality Cloth, 28 ounce..... 5.85
- " 3—Melodian Cloth, 28 ounce..... 4.65
- " 4—Rubber Cloth, 28 ounce..... 4.00
- " 5—Rubber Cloth, 22 ounce..... 3.50

### FOR OLDSMOBILE.

- No. 1—Para Rubber Cloth, 28 ounce.....\$8.00
- " 2—Extra Quality Cloth, 28 ounce..... 6.50
- " 3—Melodian Cloth, 28 ounce..... 5.35
- " 4—Rubber Cloth, 28 ounce..... 4.75

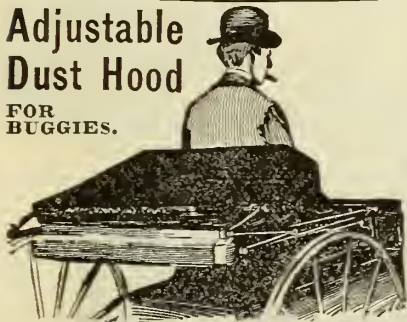
When ordering Storm Fronts for buggies give widths of top and dash. For automobiles give size, the make, model and date of manufacture, and we will send them to fit.

### FOR BUGGIES. PRICES.

- No. 4—Rubber Cloth, 28 ounce..\$3.50
- " 5—Rubber Cloth, 22 ounce.. 3.00

## Adjustable Dust Hood

FOR BUGGIES.

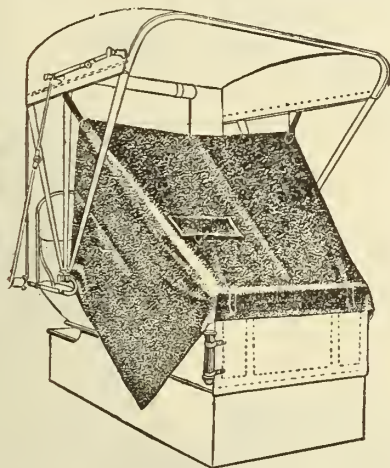


Is put on the top when it is thrown back, and gives a buggy a finished, up-to-date look and protects the inside lining of the top and keeps out the dust and mud thrown up by the wheels, and saves the labor of cleaning the inside of the top every time it is thrown back.

No buggy is complete without an Adjustable Dust Hood. The hood is reinforced at all places liable to a strain, and will last for years.

- No. 6—22 oz. White Back Rubber Cloth, \$1.50.

## ADJUSTABLE STORM APRON



Two steel clamps fastened to the Apron shaped like clothespins, fit over the dash like a clothespin over a clothesline, and holds the Apron securely to dashes of various widths.

All Aprons are 50 inches from dash to straps and 54, 60 and 72 inches wide from one side of the huggy to the other side.

### PRICES.

- No. 41—For Buggies 50x60 inches.....\$1.65
  - " 44—For Buggies 50x60 inches..... 1.50
  - " 47—For Buggies 50x60 inches..... 1.25
- Fits dashes of any width.

## STORM APRON AND ROBE.

This Apron is rubber on the outside and a heavy blanket on the inside, and can be used as a rain Apron to keep out the rain or as a robe to keep the occupants warm.

It has a clamp fastening to hold it to the dash, same as Apron above, and has a line pocket and two straps.

- No. 18—50x60 in., \$2.50.

### PONCHOS.

These Ponchos are made of a light-weight Drab Rubber Cloth, size 48x72 inches. They are hemmed all around and are also supplied with 6 holes, which are prevented from tearing out by reinforcements of leather and metal. The Poncho is used for various purposes. Is supplied with a fastening, so that it can be used as a cape for a person walking, riding in an open vehicle or on horseback.

- No. 125—Rubber Cloth.....\$1.50
- " 125—Same, lined with Light Blanket..... 2.25

### HORSE COVERS.

For Double or Single Team.

Two sizes, 5 ft., 5 ft. 4 in., measured from hame to tail.

All covers have large hame leathers; line rings riveted on hame leathers; snap and ring at trace; strap and buckle at breast; line pocket at saddle.

- No. 82—Black Oiled Drill.....Hame, \$2.40
- " 83—Black Oiled Drill, Fleece-Lined..... 3.00
- " 84—Brown Duck..... " 3.00
- " 85—White Duck..... " 3.50
- " 86—Black Oiled Drill.....Hood, 2.90
- " 87—Black Oiled Drill, Fleece-Lined..... 3.65
- " 88—Brown Duck..... " 3.65
- " 89—White Duck..... " 4.25

Hood covers are made exactly like hame covers, except that they extend over the ears.

### WASH APRON



This Apron is made of heavy waterproof Duck, and is strictly waterproof; it is used by liverymen, hutchers, laundries, creameries, packing-houses, etc.

- No. 63—Size 36x48.....\$1.50

## Kitchen Apron

Used by housewives when washing dishes, baking or doing any ordinary work in the kitchen.

This Apron is water and grease proof, and protects the dress from water, grease, etc.

Size 36x45 in., complete with strings.

- No. 61—Black Rubber, 50c.

- No. 62—White Rubber, 75c.

If wanted by mail, add 15c. for postage.



No. 39

## Farmers' Favorite Road Cart

Sarven wheels, 1 inch axle, semi-elliptic springs; painting, dark wine. List Price, \$27.00. Retail, \$15.50.

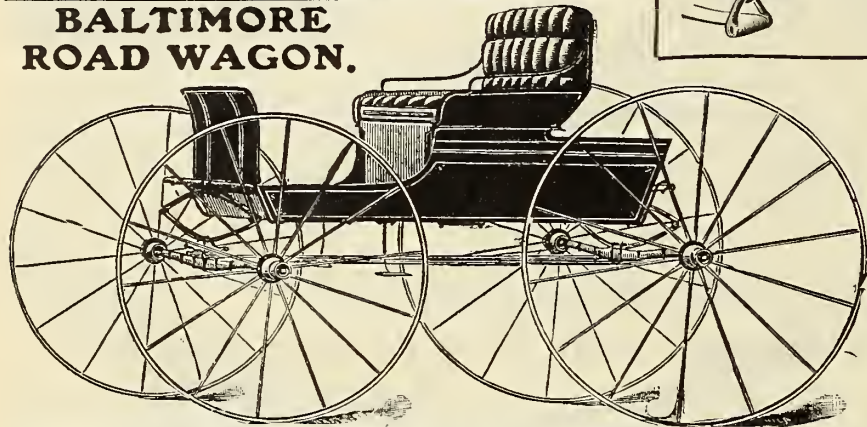
No. 35 BODY CART.

Wheels, Sarven patent, 4 feet high; 1 inch tread. Gear, double collar, steel axle, 1 inch coaxed; four-leaf springs, combined with small coil springs; adjusting irons for raising or lowering body. Body, 27 inches wide; seat, 30 inches wide, with box underneath, 24x11x6 inches. Trimmings, imitation leather; spring cushion. Painting, body black; gear, Brewster green. List, \$43.00. Retail, \$24.00.

OLD DOMINION BODY CART.

Somewhat similar to the Farmers' Favorite No. 39, but cheaper in construction. List, \$24.50. Retail, \$14.00.

## BALTIMORE ROAD WAGON.



back, whpccord or leather; leather extra. Painting, body, black; gear, Brewster green or carmine, neatly striped. List \$95.00. Retail \$55.00.

## DUPLEX SPRING WAGON.

Axle, 1 1/2 in.; 1 1/2 in. steel tire; body, 7 ft. long, 3 ft. wide, 9 in. high. Drop end gate. Capacity, 1000 lbs. Price without Top or Brake, List \$69.00, Retail \$45.00. With Top as shown in cut, List \$99.00, Retail \$62.00.

Axle, 1 in.; 1 in. steel tire; body, 6 ft. 6 in. long, 3 ft. wide, 9 in. high. Drop end gate. Capacity, 600 to 800 lbs. One seat with cushion in boiling oil. Price without Top or Brake, List \$65.00, Retail \$42.50. With Top as shown in cut, List \$95.00, Retail \$59.50. Brake extra, List \$5.00, Retail \$3.00.

### AXLE GREASE AND OILS.

Per box—Atlas.....	\$0.05
10-pound buckets—Atlas.....	.55
15 pounds, in pails—Atlas.....	.65
25 pounds, in pails—Atlas.....	.80

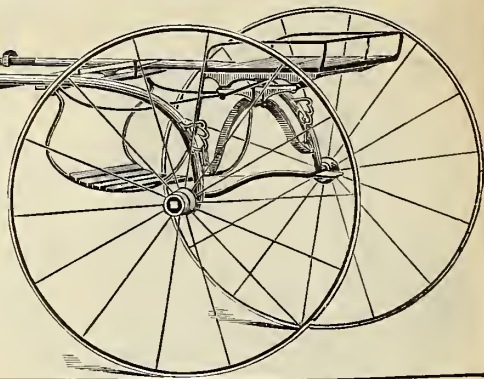
Mica and Shining Light, 10-pound pails... .75  
 Mica and Shining Light, 15-pound pails... 1.00  
 Mica and Shining Light, 25-pound pails... 1.25  
 Mica and Shining Light in tin boxes, per box, 8c.; 3 for 20c.

We are headquarters for a full line of lubricating oils.

### Special Prices in Barrel and Half-Barrel Lots.

Imperial or Boston Coach Oil, per gallon..	\$1.00
Imitation Castor Oil, per gallon.....	1.00
Mineral Castor Oil, per gallon.....	.60
Neatsfoot Oil, per gallon.....	1.00
Royal Harness Oil, per gallon.....	.75
Gasoline Machine Oil, per gallon.....	.50
Gasoline Machine Oil, 10 gal. can, per gal.	.40

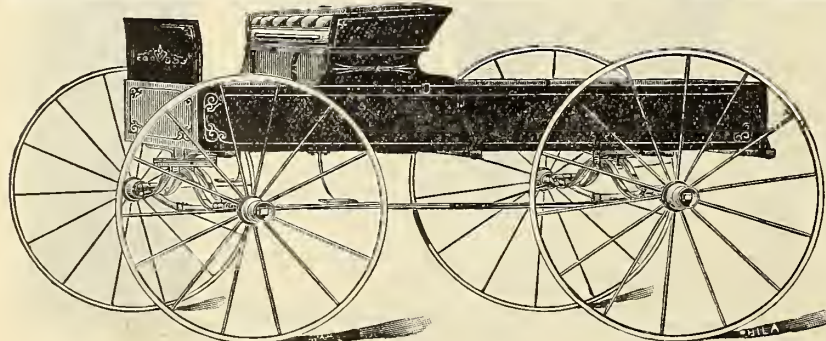
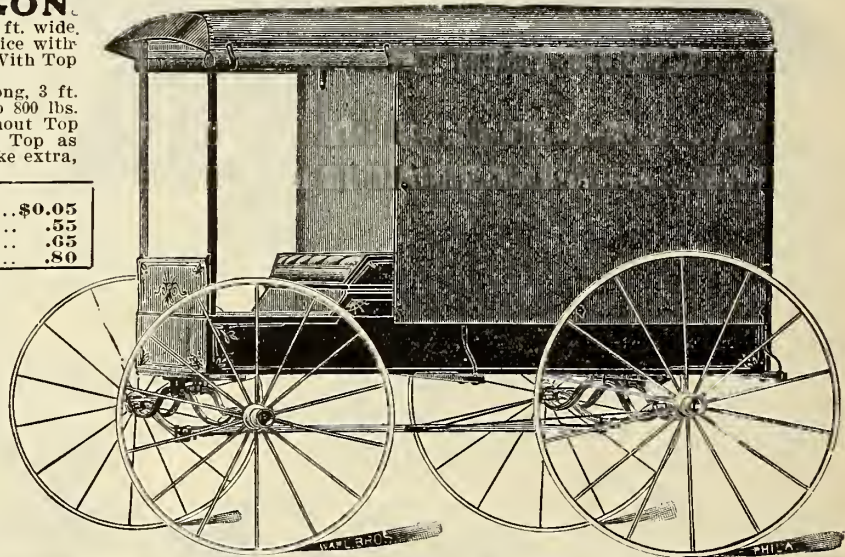
### Special Prices by Larger Quantities or Barrels.



Wheels, Sarven patent; 3/4 tread, with round edge steel tire. Gear, double collar steel axle, 15-16 inch; fantail and swedged; three-leaf 34 inch spring; axles bedded and reaches ironed. Body, size, 49x24 inches on bottom; round corners and concave seat risers; steel body loops. Seat, size, 16x27 inches, with detachable panel back. Trimmings, leather dash; carpet in bottom; cushion and back green cloth or imitation of leather. Painting, body, black; gear, Brewster green; both neatly striped. List \$66.00. Retail \$37.50.

## No. 3 DRIVING WAGON.

Wheels, extra selected hickory; Sarven patent or compressed band; 3/4 inch round edge steel tire, bolted at every spoke. Gear, double collar steel axle, 15-16 inch; fantail and swedged 36 inch four-leaf graded steel springs. Body, ash sills and poplar panels; size, 24x54 inches; full length steel body loops; wrought steps, with rubber pads. Seat, size of bottom, 17x28 inches, polished beveled edged back. Trimmings, leather dash; full-length tapestry carpet; cushion and



## Three Spring Delivery Wagon.

Axle, 1 1/2 in.; 1 1/2 in. steel tire; body, 7 ft. long, 3 ft. wide, 9 in. deep. Drop end gate. Capacity, 1000 lbs. Price without Top or Brake, List \$73.00, Retail \$47.50. With Top, List \$103.00, Retail \$64.50. Brake, List \$5.00, Retail \$3.00 extra.

Axle, 1 in.; 1 in. steel tire; body, 6 ft. 6 in. long, 3 ft. wide, 9 in. deep. Drop end gate. Capacity, 600 to 800 lbs. Seat with cushion. Price without Top or Brake, List \$69.00, Retail \$45.00. With Top, List \$99.00, Retail \$62.00. Brake, List \$5.00, Retail \$3.00 extra.

All wheels dipped in boiling oil. We also carry other styles of delivery wagons, and are always in position to furnish anything in the line.

List us quote you prices.



## BALTIMORE SINGLE LEAF END SPRING BUGGY.

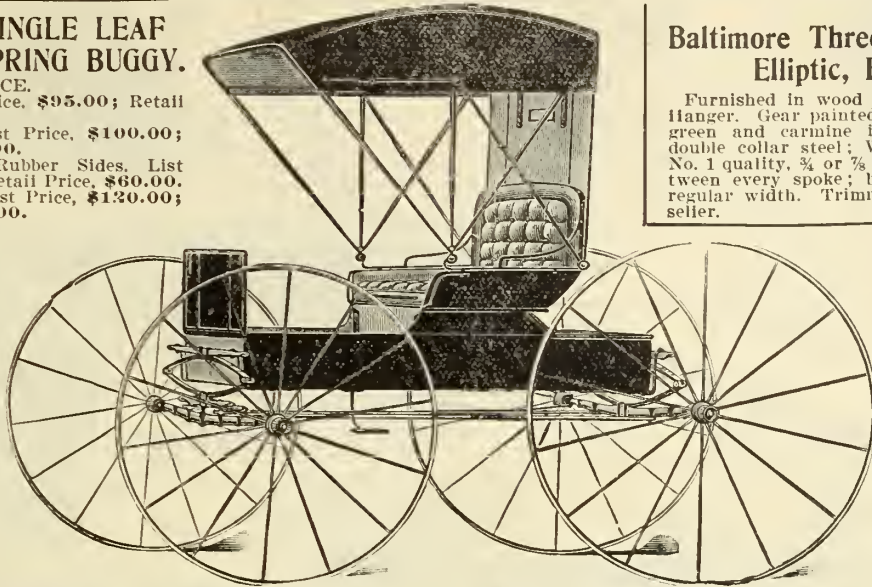
PRICE.

Rubber Top, List Price, \$95.00; Retail Price, \$52.50.  
 Leather Quarter, List Price, \$100.00; Retail Price, \$55.00.  
 Leather Top and Rubber Sides, List Price, \$110.00; Retail Price, \$60.00.  
 Full Leather Top, List Price, \$120.00; Retail Price, \$70.00.

Similar in appearance to cut.  
 Furnished in wood crossbars or Bailey Loop Hanger.

For ease of riding and general comfort it is not excelled by any other style.

Axles,  $\frac{7}{8}$  inch double collar steel; Warner or Sarven wheels, No. 1 quality,  $\frac{3}{4}$  or  $\frac{7}{8}$  inch tread; tire bolted between every spoke; body 22 inches wide; seat regular width; nickel hub bands; nickel prop nuts; trimmed in leather. A great favorite in the South.



## Baltimore Three-Leaf Elliptic, End Spring Buggy.

Furnished in wood crossbars or Bailey Loop Hanger. Gear painted any color desired—black, green and carmine in stock. Axles,  $\frac{7}{8}$  inch double collar steel; Warner or Sarven wheels, No. 1 quality,  $\frac{3}{4}$  or  $\frac{7}{8}$  inch tread; tire bolted between every spoke; body 22 inches wide, seat regular width. Trimmed in leather. Our best seller.

Price.

Rubber Top, List, \$95.00; Retail, \$52.50.  
 Leather Quarter, List, \$100.00; Retail, \$55.00.  
 Leather Top and Rubber Sides, List, \$110.00; Retail, \$60.00.  
 Full Leather Top, List, \$120.00; Retail, \$70.00.

Want of space prevents description of the extensive line of Buggies, Surries, etc., which we handle, but if our friends will send specifications, we will be pleased to furnish anything needed in this line.

## CLARK'S GARRAGE HEATER.



Strong.  
 Ornamental.  
 Convenient.  
 Cannot be crushed or bent.

Prices.

No. 5—12 inches long, white metal ends, not covered, \$1.75.  
 No. 5 B—Same, except covered with Brussels carpet, \$2.00.  
 No. 3 D—14 inches long, white metal ends, covered with Brussels carpet, \$2.75.



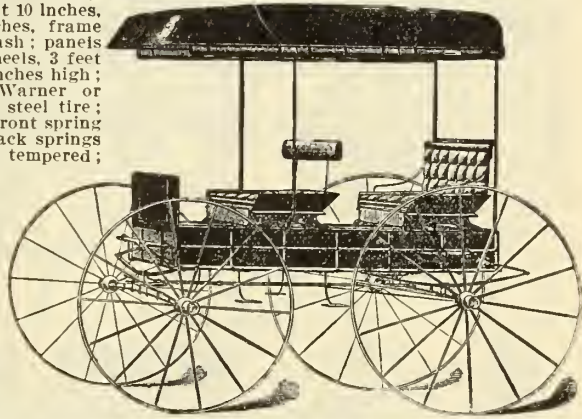
**A CAKE OF PREPARED COAL.**  
 One cake will last 15 to 16 hours. No smoke, odor, flame or gas. Price, case of 1 dozen cakes, 75c.

## No. 4 DAYTON.

Length of body 5 feet 10 inches, width 2 feet 10 $\frac{1}{2}$  inches, frame and seats best white ash; panels best No. 1 poplar; wheels, 3 feet 9 inches and 3 feet 5 inches high; 1 1-16 inch spoke; Warner or shell band; 1 $\frac{1}{4}$  inch steel tire; 1 1-16 inch steel axle, front spring 1 $\frac{3}{8}$  inch, 4 ply; two back springs 1 $\frac{1}{2}$  inch, 4 ply, oil tempered; gear best white hickory; cushions trimmed either leather or cloth; curtains 24 ounces, green back, gum; finished natural wood or painted as desired; hung on Brewster springs.

PRICE.

List..... \$110.00  
 Retail..... 60.00  
 Can also furnish in duplex or side bar at same price.



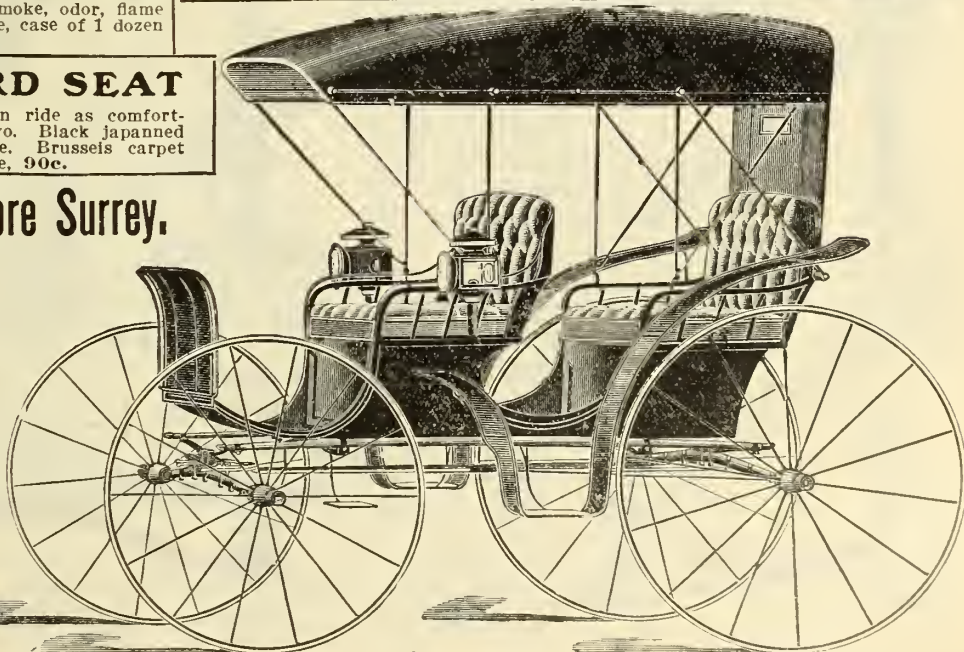
## THIRD SEAT

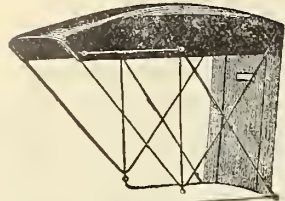
Three can ride as comfortably as two. Black japanned steel frame. Brussels carpet seat. Price, 90c.

## Baltimore Surrey.

Axles, drop pattern, 1 1-16 inch. Wheels, Warner or Shell band, screwed rims, 40 and 44 inches high, with 1 inch tire. Can furnish wood hub wheels, 40 and 44 inches high, with  $\frac{3}{8}$  inch tire if desired. Body and seats roomy and comfortable. Painting: body, black, with moldings tastily striped; gear, green or carmine, neatly striped. Regular, with leather quarter extension top leather back stays, rubber sides and back curtains; cloth, whipcord or imitation leather seat trimmings; double fenders, oil-burning lamps, rubber apron, full length carpet and shafts.

List Price, with shafts, rubber top, \$170.00.  
 Retail Price, with shafts, rubber top, \$100.00.  
 Leather quarter and stay top, List, \$180.00.  
 Leather quarter and stay top, Retail, \$110.00.



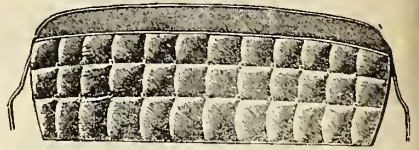


## BUGGY TOPS.

**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, \$14.00. Retail, \$8.00.

**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, \$16.00. Retail, \$9.00.

## CORDED BACK.



List.. \$4.00      Retail.. \$2.50

## AUTOMOBILE TOPS.

Automobile Tops for any style machine. In ordering, send name of machine and year.

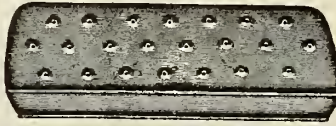
Prices on Application.

## SHAFTS.



Ironed, complete, painted, for Buggies. List, \$5.00. Retail, \$3.25.  
 Ironed, complete, painted for Daytons and Surries. List, \$5.50. Retail, \$3.50.  
 Ironed, complete, painted for Daytons and Surries, heavy. List, \$5.50. Retail, \$3.75.

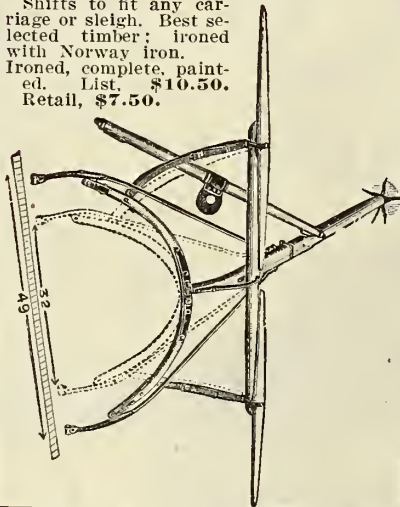
## PLAIN DRILL WAGON CUSHION.



List....\$1.50      Retail....\$1.00

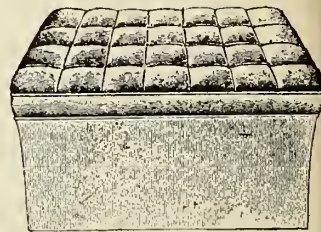
## No. 1 PATENTED SHIFTING OR ADJUSTABLE POLE.

Shifts to fit any carriage or sleigh. Best selected timber; ironed with Norway iron. Ironed, complete, painted. List, \$10.50. Retail, \$7.50.



## Corded Cloth Cushion.

WITH FALL.



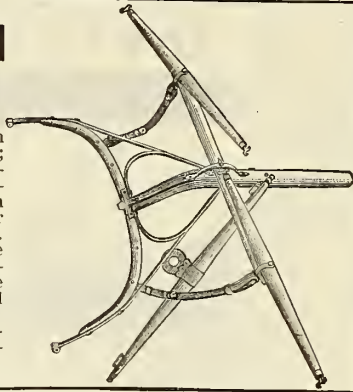
**NICELY MADE.**—In ordering Cushions give number, size of bottom of seat inside, size of fall at top and bottom and depth from top of sill, or enclose paper pattern.

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.

List....\$4.00      Retail....\$2.50

## "Balto." Ironed Carriage Pole.

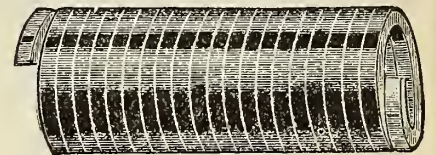
Is well ironed with wrought iron tees; double or single hammer strap; heavy drop-forged stay irons. In every way suitable for medium grade work. Prices are for Pole complete, which includes neck yoke, double and single trees and check straps. Ironed, complete, painted. List, \$8.00. Retail, \$6.00.



## SOLID CUT AXLE WASHERS.

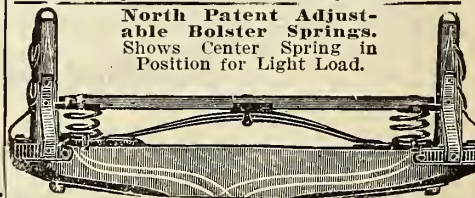
5 Sets in a Box.  
 3/4 inch, per box.....20c.  
 1 inch, per box.....25c.  
 1 1/4 inches, per box.....25c.  
 1 1/2 inches, per box.....30c.

## COIL AXLE WASHERS.



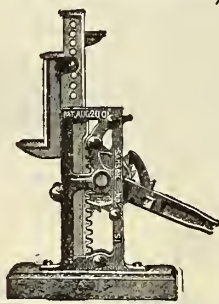
100 Washers in a box.  
 3/4 inch, per box..20c. 1 inch, per box..20c.

**North Patent Adjustable Bolster Springs.**  
 Shows Center Spring in Position for Light Load.

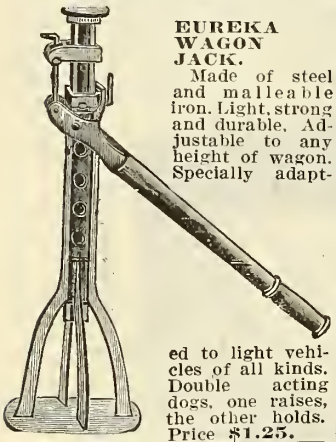


## IMPROVED SAMPSON JACK,

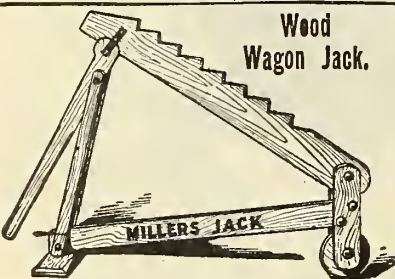
**Malleable Iron.**  
 Best Jack on the market. Can be used for any height axle. Standard cannot drop back on cogs when raised to extreme height. No breaking of cogs and standards.  
 No. 1—Will raise vehicles weighing 2 tons...\$2.50  
 No. 2—Will raise vehicles weighing 5 tons...\$3.25  
 No. 2—Will raise vehicles weighing 5 tons, with drop hook.....\$3.50  
 Can also furnish other Jacks. Prices on application.



**BUGGY WHEELS, FINISHED.**  
 No. 40..Per Set, List, \$20.00      Retail, Per set, \$12.00  
 No. 52..Per Set, List, 24.00      Retail, Per Set, 15.00



**EUREKA WAGON JACK.**  
 Made of steel and malleable iron. Light, strong and durable. Adjustable to any height of wagon. Specially adapted to light vehicles of all kinds. Double acting dogs, one raises, the other holds. Price \$1.25.



**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.

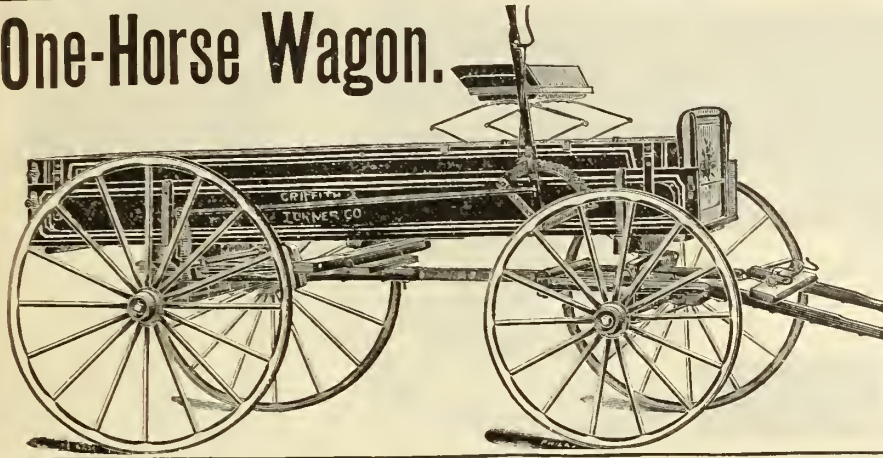
## The Common Sense Bolster Spring.



Wagon will last longer, will carry load in much better condition, particularly fruit or produce.  
 To carry 1000 lbs...\$5.00      To carry 3000 lbs...\$7.50  
 To carry 1500 lbs...6.00      To carry 4000 lbs...8.00  
 To carry 2000 lbs...6.50      To carry 5000 lbs...9.00  
 To carry 2500 lbs...7.00      To carry 6000 lbs...11.00  
**Special Discount for Cash.**

## GRIFFITH & TURNER WAGONS.

### One-Horse Wagon.



#### G. & T. ONE-HORSE WAGONS

Are the best on the market for the money.  
 One-Horse Wagon, without Brake. List, \$54.00. Retail, \$32.50.  
 One-Horse Wagon, with Gear Brake. List, \$60.00. Retail, \$36.00.  
 One-Horse Wagon, gear only, without Brake. List, \$46.00. Retail, \$27.75.  
 One-Horse Wagon, gear only, with Brake. List, \$52.00. Retail, \$31.25.  
**Special Discount for Cash.**

#### ONE-HORSE WAGON No. 20

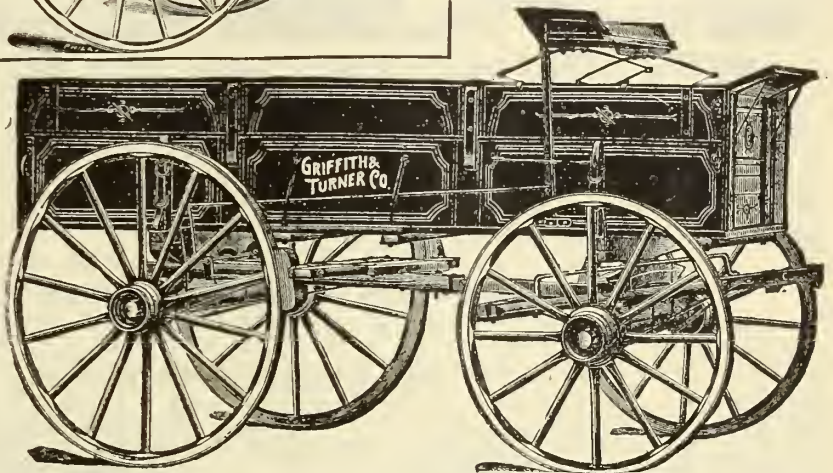
No. 20—Size Steel Axle, 1 3/8; size Tubular Axle, 1 1/2 x 6 1/2; size Tire, 1 3/8 x 5-16; capacity, 1500 to 1800 lbs.  
 Without Brake. List, \$61.00. Retail, \$36.75.  
 With Gear Brake. List, \$67.00. Retail, \$40.25.  
 Gear only, no Brake. List, \$55.00. Retail, \$33.00.  
 Gear only, with Brake. List, \$61.00. Retail, \$36.75.

### Solid Steel and Tubular Steel Axle Wagons.

These Wagons are all heavily ironed and braced, and for use in rough and hilly country they are specially adapted, being exceptionally strong. The wheels are dipped in **Boiling Oil**, and the round-edge tire is used for the protection of fellos and paint. They are one of the lightest-running Wagons made. There is an increasing demand in sandy countries for steel-axle Wagons, and our trade in this style has grown immensely.

The prices include Whiffletrees, Wrench, Stay Chains, Tongue Chains, Box, Top Box, Spring Seat and Gear.

All Wagons will be arranged with Shafts for one horse instead of Tongue when ordered at same price.



Nos.	Size of Steel Axle.	Size of Tub'l'r Axles.	Size of Tires.	Height of Wheels.		Dimensions of Body.			Weight.	Capacity.	Wagon complete, no brakes.		Wagon complete, with brakes.		Gears only, with brakes.		Gears only, no brakes.						
				Front. ft. in.	Rear. ft. in.	Length. ft. in.	Width. ft. in.	Depth. ft. in.			List.	Retail.	List.	Retail.	List.	Retail.	List.	Retail.					
21..	1 1/2	1 3/8 x 8	1 3/8 x 7 1/2	3	6	4	0	9	6	3	6	12	6	....	2,000 to 2,500	\$85.00	\$51.00	\$91.00	\$54.75	\$79.00	\$47.50	\$73.00	\$44.00
22..	1 3/8	2 1/8 x 8	2 x 7 1/2	3	6	4	2	10	6	3	6	12	6	900	2,500 to 3,000	103.00	62.00	111.00	66.75	99.00	59.50	91.00	54.75
23..	1 3/8	2 3/8 x 9	2 x 8 1/2	6	6	4	2	10	6	3	6	12	8	1,000	3,000 to 3,500	109.00	65.50	117.00	70.25	103.00	62.00	95.00	57.00
24..	2	2 3/8 x 10	2 x 8 1/2	3	6	4	2	10	6	3	6	14	8	1,200	4,000 to 4,500	117.00	70.25	125.00	75.00	111.00	66.75	105.00	63.00
25..	2 1/4	2 3/8 x 11	3 x 8 1/2	3	6	4	2	Running Gear.		1,200	6,000	145.00	87.00	155.00	93.00	137.00	82.25	127.00	76.25	....	....		
26..	2 1/2	3 1/8 x 12	3 x 8 1/2	3	6	4	2	Running Gear.		....	8,000	....	....	....	....	....	....	....	....	150.00	90.00	140.00	84.00

For tires wider than above on Nos. 22 and 23, add List \$9.00, Retail \$5.00 per inch; on Nos. 24, 25 and 26, add List \$11.00, Retail \$6.00 per inch. **SPECIAL DISCOUNT FOR CASH.**

#### EXTRAS FOR G. & T. WAGONS.

	G. & T. One-Horse.		No. 20		No. 21		No. 22		No. 23		No. 24		No. 25		No. 26	
	List	Retail	List	Retail	List	Retail	List	Retail	List	Retail	List	Retail	List	Retail	List	Retail
Bodies.	\$14.00	\$8.00	\$14.00	\$8.00	\$16.00	\$9.50	\$18.50	\$11.00	\$18.50	\$11.00	\$21.00	\$12.50	\$27.50	\$16.50	.....	.....
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	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Wheels Reg. Tire, per set.	24.00	15.00	28.00	17.00	42.00	25.50	46.00	28.00	51.00	31.00	55.50	33.50	60.00	36.00	64.50	39.00

For tires wider than regular on Nos. 21, 22 and 23, add per inch, list, \$9.00; retail, \$5.00. For tires wider than regular on Nos. 24, 25 and 26, add per inch, list, \$11.00; retail, \$6.00.

## "Handy" Steel Wheel Farm Wagon.



Wheels, 28 and 30 inches, 4x 1/2-inch tire, with staggard spokes.

Bolsters are made of good white oak, with cast sockets bolted on side, so stakes are movable.

We make reach of white oak, 4x2 1/2 inches by 12 feet long, adjustable for the ordinary wagon box, or hay ladders 16 feet long.

We make the Standard Gauge 5 feet from center to center of tires; 3 feet 6 inches between standards.

Axles solid steel 2 inches, fastened on the bottom of a grooved white oak piece 3x5 inches, with steel clips. On the end of oak piece we bolt cast collar or sand band; improved linch pin.

Doubletree, Neck Yoke and Brake are extra.  
 Price, without Brake, Neck Yokes and Double trees..... \$33.00  
 Brake..... 4.00  
 Neck Yokes..... .75  
 Doubletrees..... 2.00

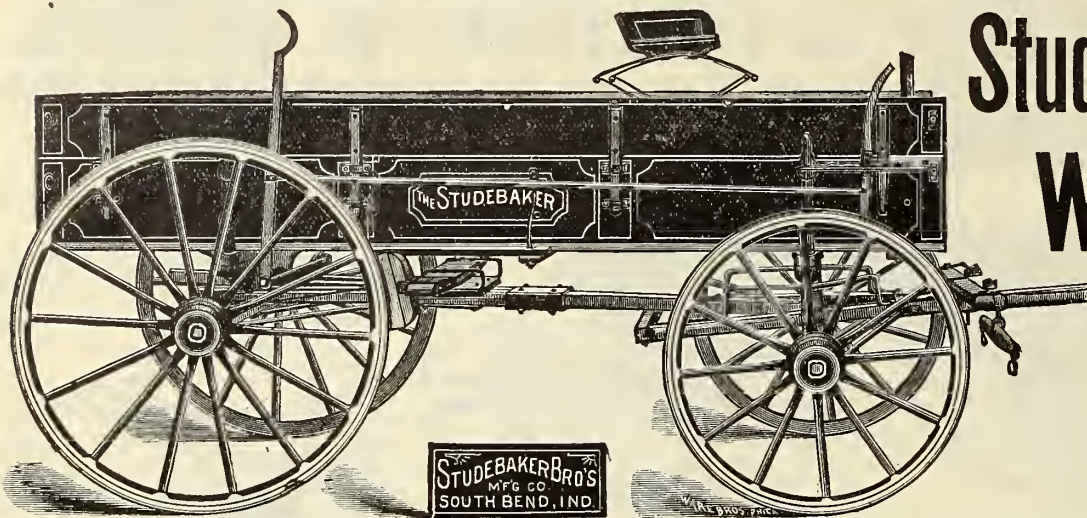
Capacity, 5000 pounds.

Can also furnish same in Wood Axle, with 3 1/4 x 10-inch skein, 28 and 30-inch wheels, 4x 3/8-inch tire..... \$25.00

### ELECTRIC STEEL WHEELS.

The best Steel Wheels made. Indispensable on the farm for mounting Feed Cutters, Thrashers, Huskers, etc. Made for Wood or Steel Axle. Staggered spokes.

28x4 inches, 3/4x10 Skein or 1 1/4-inch Steel Axle, each.....	Retail, \$3.30
30x4 inches, 3/4x10 Skein or 1 1/4-inch Steel Axle, each.....	3.60
34x4 inches, 3/4x10 Skein or 1 1/4-inch Steel Axle, each.....	4.20



## Studebaker Wagons.

### SPECIAL STEEL SKEIN FARM WAGON FOR MARYLAND AND PENNSYLVANIA.

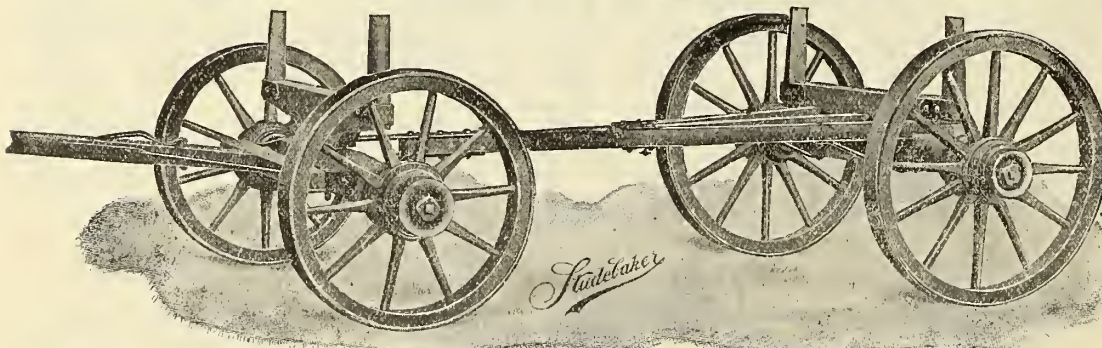
No.	Size of Skeins.	Height of Wheels.				Size of Tire.	Dimensions of Box.				Approximate.		Prices.	
		Front.		Hind.			Lower.	Top.	Length.		Weight.	Capacity.	Gear only, with brake.	
		Inches.	Ft. In.	Ft. In.	Inches.				Inches.	Inches.			Lbs.	Lbs.
27	3 1/2 x 11	3	8	4	6	4 x 3/8	13	8	11	6	1300	5000	\$122.00	\$80.50
28	3 3/4 x 12	3	8	4	6	4 x 3/8	14	10	11	6	1575	6500	147.50	96.00
29	4 x 12	3	8	4	6	4 x 3/8	14	10	11	6	1650	8500	183.50	119.50

SPECIAL DISCOUNT FOR CASH.

### STANDARD THIMBLE SKEIN FARM WAGON.

No.	Size of Skeins.	Height of Wheels.				Size of Tire.	Dimensions of Box.				Approximate.		Wagon complete.		Wagon complete, no brake.		Gear only, with brake.		Gear only, no brake.	
		Front.		Hind.			Lower.	Top.	Length.		Weight.	Capacity.	List Price.	Retail Price.	List Price.	Retail Price.	List Price.	Retail Price.	List Price.	Retail Price.
		Inches.	Ft. In.	Ft. In.	Inches.				In.	In.										
2	2 3/4 x 8	3	8	4	4	1 1/2 x 3/8	12	8	10	0	850	2000	\$92.50	\$64.75	\$84.00	\$59.00	\$71.50	\$50.00	\$65.00	\$45.50
2	2 3/4 x 8	3	8	4	4	2 x 3/8	12	8	10	0	850	2000	96.00	67.25	87.50	61.25	75.00	52.50	68.50	48.00
2	2 3/4 x 8	3	8	4	4	2 1/2 x 3/8	12	8	10	0	850	2000	99.00	69.50	90.50	63.50	78.00	54.50	71.50	50.00
2	2 3/4 x 8	3	8	4	4	3 x 3/8	12	8	10	0	850	2000	100.50	70.50	92.00	64.50	79.50	55.75	73.00	51.25
3	3 x 9	3	8	4	6	1 1/2 x 3/8	13	8	10	6	1000	3500	99.00	69.50	90.00	63.50	76.00	53.25	69.00	48.50
3	3 x 9	3	8	4	6	2 x 3/8	13	8	10	6	1000	3500	102.00	71.50	93.50	65.50	79.00	55.50	72.00	50.50
3	3 x 9	3	8	4	6	2 1/2 x 3/8	13	8	10	6	1000	3500	106.00	74.25	97.50	68.25	83.00	58.25	76.00	53.25
3	3 x 9	3	8	4	6	3 x 3/8	13	8	10	6	1000	3500	109.00	76.50	100.00	70.00	86.00	60.25	79.00	55.50
4	3 1/4 x 10	3	8	4	6	1 1/2 x 3/8	14	10	10	6	1100	4000	102.00	71.50	93.00	65.50	78.00	54.50	71.00	49.75
4	3 1/4 x 10	3	8	4	6	2 x 3/8	14	10	10	6	1100	4000	105.50	74.00	96.50	67.50	81.50	57.00	74.50	52.25
4	3 1/4 x 10	3	8	4	6	2 1/2 x 3/8	14	10	10	6	1100	4000	109.00	76.50	100.00	70.00	85.00	59.50	78.00	54.50
4	3 1/4 x 10	3	8	4	6	3 x 3/8	14	10	10	6	1100	4000	112.00	78.50	103.00	72.50	88.00	61.75	81.00	56.75
5	3 1/2 x 11	3	8	4	6	1 1/2 x 3/8	16	12	10	6	1250	5000	112.00	78.50	101.50	71.25	86.00	59.25	77.50	54.50
5	3 1/2 x 11	3	8	4	6	3 x 3/8	16	12	10	6	1250	5000	122.00	85.50	111.50	78.25	96.00	66.75	87.50	61.50

### STUDEBAKER'S FARMERS' HANDY TRUCK.



This truck is especially adapted to farm or orchard work, but can be readily utilized for transfer work by adding a suitable platform. The reach is long enough to couple out for a 16-foot rack or box. The bolsters are made with wrought-iron sockets and removable wood standards.

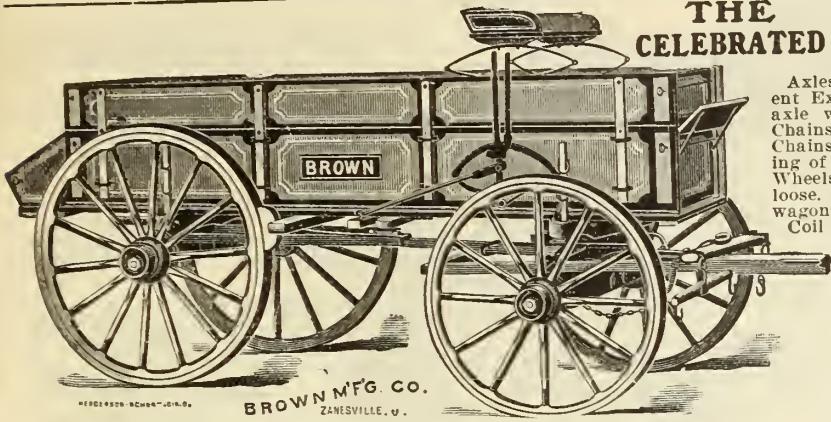
We believe the wood hub wheels to be stronger and of longer life than the steel wheels, but will, if desired, furnish steel wheels at the same price.

No.	Size of Cast Skein.	Height of Wheels.		Size of Tire.	Approximate.		List Price.	Retail Price.
		Front.	Hind.		Weight.	Capacity.		
8228	3 1/2 x 10"	30"	36"	4 x 3/8"	680 lbs.	4000 lbs.	\$45.00	\$31.50

NOTE.—We will ship wood wheels unless otherwise specified.

Can furnish above in either wood or steel wheels, but price does not include either whiffletrees or neck yokes.

## THE CELEBRATED BROWN WAGON.



Axes 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.

### WAGON SEATS.

List Price \$5.00. Retail Price \$3.50.

### GEAR BRAKES.

List Price \$9.00. Retail Price \$6.50.

No.	Size of Cast Skein.	Height of Front Wheels.	Height of Rear Wheels.	Size of Tire.	Regular depth of bottom box.	Regular depth of top box.	Regular length of bed inside.	Capacity, lbs.	Wagon complete.		Wagon complete, no brake.		Gear only, with brake.		Gear only, no brake.	
									List Price.	Retail Price.	List Price.	Retail Price.	List Price.	Retail Price.	List Price.	Retail Price.
00	2 3/4 x 8 1/2	3' 8"	4' 4"	1 1/2 x 3/16	14"	6"	9 1/2"	2500	\$100.01	\$70.00	\$91.33	\$64.00	\$78.01	\$54.75	\$69.29	\$48.50
00	2 3/4 x 8 1/2	3' 8"	4' 4"	2 1/2 x 3/16	14"	6"	9 1/2"	2500	107.68	75.50	99.06	69.50	85.61	60.00	76.97	54.00
00	2 3/4 x 8 1/2	3' 8"	4' 4"	3 x 3/16	14"	6"	9 1/2"	2500	111.53	78.25	102.89	72.00	89.45	62.75	80.78	56.75
1	3 x 9	3' 8"	4' 4"	1 1/2 x 3/16	15"	6"	9 1/2"	4000	103.85	72.75	95.21	66.75	81.77	57.25	73.13	51.25
1	3 x 9	3' 8"	4' 4"	2 1/2 x 3/16	15"	6"	9 1/2"	4000	111.53	78.00	102.89	72.25	89.45	62.75	80.81	54.75
1	3 x 9	3' 8"	4' 4"	3 x 3/16	15"	6"	9 1/2"	4000	115.37	81.00	106.73	74.75	93.23	65.50	84.65	59.50
2	3 1/2 x 10	3' 8"	4' 4"	1 1/2 x 3/16	16"	8"	10"	4500	107.70	75.50	99.05	69.50	85.61	60.00	76.97	54.00
2	3 1/2 x 10	3' 8"	4' 4"	2 1/2 x 3/16	16"	8"	10"	4500	114.41	80.25	105.77	74.25	92.33	64.75	83.69	58.75
2	3 1/2 x 10	3' 8"	4' 4"	3 x 3/16	16"	8"	10"	4500	117.29	82.25	108.65	76.25	95.21	66.75	86.57	60.75
3	3 1/2 x 11	3' 8"	4' 4"	1 1/2 x 3/16	16"	10"	10"	5500	113.45	79.50	104.81	73.50	91.37	64.00	82.73	58.00
3	3 1/2 x 11	3' 8"	4' 4"	2 1/2 x 3/16	16"	10"	10"	5500	126.89	89.00	118.25	83.00	104.81	73.50	96.17	67.50
3	3 1/2 x 11	3' 8"	4' 4"	3 x 3/16	16"	10"	10"	5500	136.43	95.75	127.85	89.50	114.41	80.25	105.77	74.25
<b>SPECIAL STEEL SKEIN, LINCX PIN GEARS, 1/2-INCH WIRES.</b>																
3	3 1/2 x 11	3' 8"	4' 4"	4 x 3/16	16"	10"	10"	5500	148.00	97.75	.....	.....	126.00	83.25	.....	.....
4	3 1/2 x 12	3' 8"	4' 4"	4 x 3/16	18"	12"	10"	6500	170.00	110.50	.....	.....	146.00	95.00	.....	.....
5	4 x 12	3' 8"	4' 4"	4 x 1/2	18"	12"	10"	7500	177.32	115.25	.....	.....	154.00	100.00	.....	.....

Rear Lock or Hay Lock for Special Nos. 3, 4 and 5 Gears, List Price \$10.00, Retail Price \$7.00. Special Discount for Cash.

### PATENT STEEL SKEINS.

Revised Price List, PATENT STEEL SKEINS

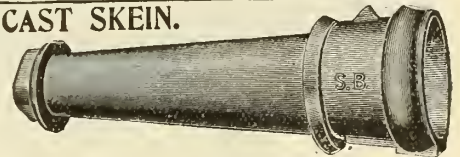


No.	Size.	Steel Skeins with boxes, per set.		Boxes only, per set.	
		With nuts, Price List.	Price List.	Price List.	Price List.
1	2 3/8 x 7 "	\$5.60	\$1.12		
1 1/4	2 1/2 x 7 1/2 "	5.70	1.14		
1 1/2	2 1/2 x 7 1/2 "	5.70	1.14		
2	2 1/2 x 8 "	5.80	1.16		
3	2 3/4 x 8 "	6.10	1.22		
4	2 3/4 x 8 1/2 "	6.20	1.24		
5	2 3/4 x 9 "	6.30	1.26		
6	3 x 9 "	6.50	1.30		
7	3 x 10 "	6.70	1.34		
8	3 1/4 x 9 "	7.40	1.48		
9	3 1/4 x 10 "	7.50	1.50		
10	3 1/2 x 10 "	8.30	1.66		
11	3 1/2 x 11 "	8.50	1.70		
12	3 1/2 x 12 "	9.00	1.80		
13	3 3/4 x 11 "	10.00	2.00		
14	3 3/4 x 12 "	10.00	2.00		
15	4 x 12 "	12.00	2.40		
16	4 1/2 x 12 "	13.00	2.60		
17	4 1/2 x 13 "	18.00	3.60		
18	5 x 14 "	23.00	4.60		
No.	Size.	With Lincx Pins, Price List.			
19	2 1/2 x 8 "	5.80	1.16		
19 1/2	2 3/4 x 9 "	6.30	1.26		
20	3 x 9 "	6.50	1.30		
20 1/2	3 x 10 "	6.70	1.34		
21	3 1/4 x 10 "	7.50	1.50		
22	3 1/2 x 10 "	8.30	1.66		
23	3 1/2 x 11 "	8.50	1.70		
24	3 1/2 x 12 "	9.00	1.80		
25	3 3/4 x 12 "	10.00	2.00		
26	4 x 12 "	12.00	2.40		
27	4 1/2 x 12 "	13.00	2.60		
28	4 1/2 x 13 "	18.00	3.60		

NOTE.—These Trade Skeins not to be confused with the patent and special truss skeins used on the Brown and Studebaker Wagons.

### S. B. TRADE CAST SKEIN.

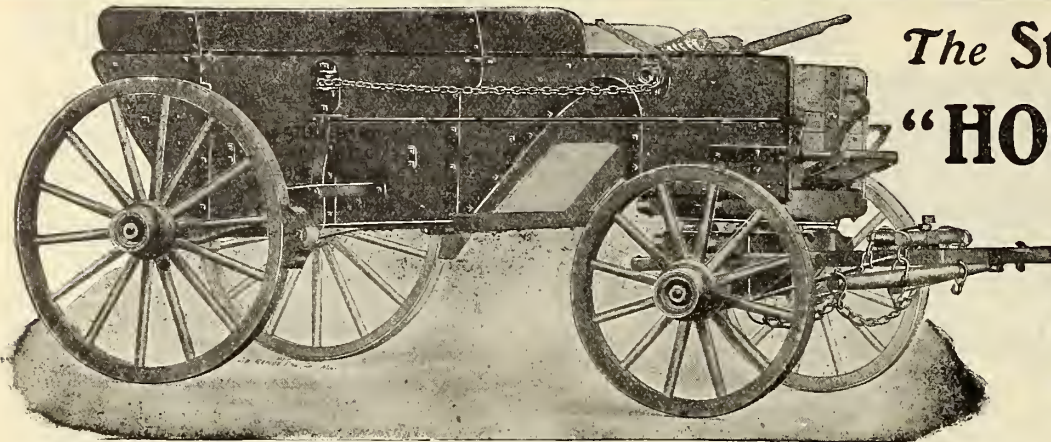
Standard Price List S. B. Trade Cast Skeins.



No.	Size.	Cast Skeins, with boxes.		Boxes only.	
		List Per Set.	Retail Per Set.	List Per Set.	Retail Per Set.
1	2 x 6 "	\$3.25	\$2.00	\$1.08	\$ .65
2	2 x 6 1/2 "	3.25	2.00	1.08	.65
3	2 1/4 x 6 1/2 "	3.50	2.10	1.17	.70
4	2 1/4 x 7 "	3.75	2.25	1.25	.75
5	2 1/2 x 7 "	4.00	2.40	1.34	.80
6	2 1/2 x 7 1/2 "	4.00	2.40	1.34	.80
7	2 1/2 x 7 1/2 "	4.00	2.40	1.34	.80
8	2 1/2 x 7 1/2 "	4.50	2.70	1.50	.90
9	2 1/2 x 8 "	4.75	2.85	1.58	.95
10	2 3/4 x 8 "	5.25	3.15	1.75	1.05
11	2 3/4 x 8 1/2 "	5.40	3.25	1.80	1.08
12	2 3/4 x 9 "	6.00	3.60	2.00	1.20
13	3 x 9 "	6.00	3.60	2.00	1.20
14	3 x 10 "	6.50	3.90	2.17	1.30
15	3 1/4 x 9 "	7.00	4.20	2.33	1.40
16	3 1/4 x 10 "	7.50	4.50	2.50	1.50
17	3 1/4 x 11 "	7.75	4.65	2.58	1.55
18	3 1/2 x 10 "	8.00	4.80	2.67	1.60
19	3 1/2 x 11 "	8.30	5.00	2.77	1.65
20	3 1/2 x 12 "	8.50	5.25	2.94	1.75
21	3 3/4 x 11 "	9.00	5.40	3.00	1.80
22	3 3/4 x 12 "	9.40	5.65	3.14	1.90
22 1/2	4 x 11 "	10.60	6.35	3.54	2.15
23	4 x 12 "	10.60	6.35	3.54	2.15
24	4 1/4 x 12 "	15.00	9.00	5.00	3.00
24 1/2	4 1/2 x 12 "	18.00	10.80	6.00	3.60
24 3/4	4 3/4 x 12 "	20.00	12.00	6.67	4.00
25	4 1/2 x 13 "	20.00	12.00	6.67	4.00
25 1/2	5 x 12 "	23.00	13.80	7.67	4.60
25 3/4	5 x 13 "	23.00	13.80	7.67	4.60
26	5 x 14 "	25.00	15.00	8.34	5.00
27	5 1/2 x 14 "	30.00	18.00	10.00	6.00

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.

All sizes, from 2 3/8 x 7 to 4 1/2 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.



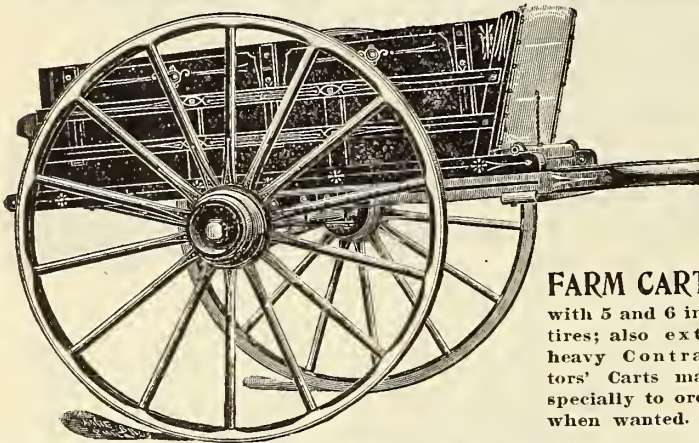
## The Studebaker "HOOSIER" Dump Wagon.

**HOUND FRONT GEAR.  
WIDE TRACK.**

This wagon dumps from the bottom by means of an ingenious device operated by levers, without the necessity of driver leaving his seat. The bottom is closed with ease while driving from the dumping ground without stopping the team, and wagon is ready for reloading. It is furnished with hound front gear, with either drop or stiff tongue and oscillating fifth wheel, which will allow the front wheels on either side to drop into a depression in the roadway without disturbing the level of the body. Wood hub wheels. Patent truss skeins. Painting—gear, red; body, green. Complete with wings, neckyoke whiffletrees and wrench. Extras—Brake, Steel Lining. Steel and asbestos lining.

No.	Size of Skeins.		Height of Wheels.		Size of Tire.	Capacity of Box.	List Price.	Retail Price.
	Front.	Hind.	Front.	Hind.				
	Inches.	Inches.	Inches.	Inches.	Inches.			
8210½	3¼	3½	38	50	3½ x ½ Extra for brake.....	2 Cubic Yards.	\$168.50 16.50	\$125.00 12.50

**SPECIAL DISCOUNT FOR CASH.**



## FARM AND CONTRACTORS' CART.

These Carts are very strong, heavily ironed, nicely painted, striped and varnished. They are specially adapted for use by farmers and contractors. Incorporated in these Carts are all of the best features of the old-style farm cart, even to the trap stick, which we retain, considering it far ahead of any of the patent devices. In consequence of these points we have now unquestionably the best article of its kind ever introduced. It is **Just the Cart needed.**

### FARM CARTS

with 5 and 6 inch tires; also extra heavy Contractors' Carts made specially to order when wanted.

Size of Axle.	Size of Tires.	Diam. of Wheels.	Price.
1½ inches.	2 inches.	4 ft. 10 in.	\$33.00
1½ inches.	3 inches.	4 ft. 10 in.	36.00
1½ inches.	4 inches.	4 ft. 10 in.	40.00
2 inches.	2 inches.	4 ft. 10 in.	41.00
2 inches.	3 inches.	4 ft. 10 in.	42.00
2 inches.	4 inches.	4 ft. 10 in.	46.00

**Special Discount for Cash.**

### FARM AND CONTRACTORS' CART WHEELS.

3-inch tire for 1½-inch axle, Farm Cart, per pair.....	\$18.00
4-inch tire for 1½-inch axle, Farm Cart, per pair.....	22.00
2-inch tire for 2-inch axle, Contractors' Cart, per pair.....	19.00
3-inch tire for 2-inch axle, Contractors' Cart, per pair.....	21.00
4-inch tire for 2-inch axle, Contractors' Cart, per pair.....	25.00

### Shafts, Bodies and Extras for Farm and Contractors' Carts.

For 1½-inch axle Farm Cart, no irons, per pair.....	\$6.50
For 2-inch axle Contractors' Cart, no irons, per pair.....	7.00
Bodies for Farm Carts.....	20.00
Bodies for Contractors' Cart.....	25.00
Axles, 1½-inch, for Farm Cart.....	5.00
Axles, 2-inch, for Contractors' Cart.....	7.00

**PATTERN No. 97.**



**CONTRACTORS' TUBULAR  
STEEL DOUBLETREE.**

No. 3.—Evener, 48 inches.

No. 3.—Singletree, 36 inches.  
Retail Price, per Set, \$8.50.



### CONTRACTORS' TUBULAR STEEL NECK YOKES.—PATTERN No. 98.

No. 2.—Length, 46 inches. Retail Price, each, \$2.75.

## OLIVER.

Strong, heavy. Furnished with either cast or steel cutter shares; with draft iron running from clevis to beam, jointer or hanging desired. R H. only.

With wheel couler as

Oliver's Latest Pattern, Road and Grading Plow, No. 24. IRON BEAM.

Price, Plain, \$15.00; with wheel, \$16.00. Above prices include 1 extra share.

## SYRACUSE CONTRACTORS' PLOW, No. 99.

Four to Eight Horses. Weight with Shoe 310 lbs.

Above cut shows plow with steel truss beam. Steel mould and landside. Separate chin piece. Heavy overlaid wrought-steel share. Adjustable shoe in place of wheel. Loop handle wear irons. Very strong. Slight turning capacity. Suitable for severe grading purposes in shale or hard pan. Price, \$30.00.

## Syracuse Contractors' Plow, No. 1.

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.

Mouldboards, landsides and points interchangeable. Points put on with five-eighths bolt.

Baltimore Contractors' Plow.

No. 1—R. H., 2 to 4 horse; wt., 150 lbs.	Price.....	\$25.00
No. 1—L. H., 2 to 4 horse; wt., 150 lbs.	Price.....	25.00
No. 2—R. H., 4 to 6 horse; wt., 200 lbs.	Price.....	27.50
No. 2—L. H., 4 to 6 horse; wt., 200 lbs.	Price.....	27.50
No. 1—R. H. point.	Price.....	4.50
No. 2—R. H. point.	Price.....	4.00
No. 1—L. H. point.	Price.....	4.50
No. 2—L. H. point.	Price.....	4.50

## HASLUP ROUND BACK, SOLID PRESSED DRAG SCRAPER.

No. 1—With runners; capacity, 7 cubic feet; weight, 100 lbs.; price, \$5.75.  
 No. 2—With runners; capacity, 5 cubic feet; weight, 90 lbs.; price \$5.50.  
 No. 3—With runners; capacity, 3½ cubic feet; weight, 80 lbs.; price \$5.25.  
 For single runners add to above price \$1.

Nos. 2, 2½ and 3 are furnished with heavy wood hub wheels; hubs, spokes and rims made of thoroughly seasoned stock. Sarven or metal wheels are furnished when ordered. Nos. 2½ and 3 wheelers are furnished regularly with snatch rod, and No. 2 when specially ordered. We can furnish doubletrees and neckyokes when ordered, but charge extra for them.

## SYRACUSE PAVEMENT PLOW, No. 98.

Adjustable and double-bar steel point. Adjustable shoe in place of wheel. Loop handle wear arms. Very strong. Specially adapted for tearing cobblestones and macadam pavement. Four or six horse. Weight, 265 lbs. Price, \$25.00.

## Haslup Patent Wheel Scraper.

DESCRIPTION OF SIZES.

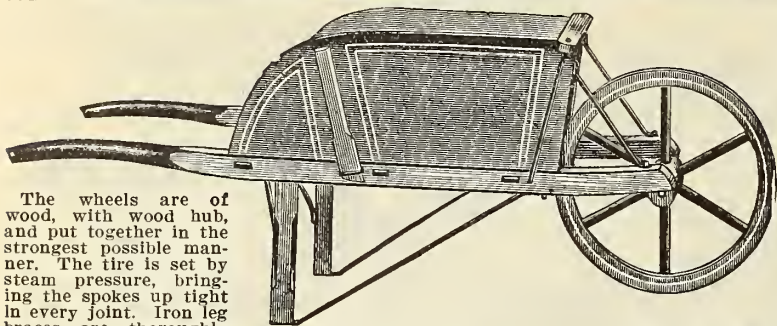
Order by Number Only. We Make Four Sizes.

No. 1—Capacity, 9 cubic feet; size of bowl, 36 inches long, 36 inches wide, 12 inches deep; wheels, 36 inches high; tire, 3x½; steel axle, 1½ inches square, arched high; spindles turned and polished; tongues, best quality of hardwood, heavily ironed, with double steel draft bars; weight, 450 lbs. Price, \$30.00.

No. 2—Capacity, 13 cubic feet; size of bowl, 37 inches long, 38 inches wide, 13½ inches deep; wheels, 40 inches high; tire, 3x5-16; steel axle, 1½ inches square, arched high, spindle turned and polished; tongues, best quality of hardwood, heavily ironed; with double steel draft bars; weight, 600 lbs. Price, regular..... \$37.50  
 Same, with Snatch Rod..... 38.50  
 No. 2½—Capacity, 14½ cubic feet; size of bowl, 41 inches long, 38 inches wide, 14 inches deep; wheels, 44 inches high; tire, 3x5-16; steel axle, 1¾ inches square, arched high,

spindle turned and polished; tongues, best quality hardwood, heavily ironed; with double steel draft bars; Weight, 675 lbs. Price, \$40.00.

No. 3—Capacity, 17 cubic feet; size of bowl, 41 inches long, 44 inches wide, 16 inches deep; wheel, 44 inches high; tire, 3x5-16; steel axle, 1¾ inches square, arched high; spindle turned and polished; tongues, best quality of hardwood, heavily ironed, with double steel draft-bars; weight, 750 lbs. Price, \$42.50.



The wheels are of wood, with wood hub, and put together in the strongest possible manner. The tire is set by steam pressure, bringing the spokes up tight in every joint. Iron leg braces are thoroughly bolted, not held by screws. The wheels have iron bands shrunk on end of hub. The spokes, maple or beech, shaped, not turned.

**No. 1.**—This Wheelbarrow is built of the best seasoned material. Frame built of hard wood. It is strong and roomy, and is adapted for the use of farmers. Painted red; size of bin, 30 inches long, 24 inches wide in front, 25 inches in back. Side boards 12 inches high, 30 inches long. Handles 5½ feet long, 2¼x1¾ inches. Wheel 21 inches diameter, 6 spokes; hub 3 inches diameter in center, 2 inches diameter at ends.

**No. 1 Barrow,** with 1½-inch tread. Weight, 60 pounds. Six crated in one package, 56½ cubic feet.

## BALTIMORE GARDEN BARROW

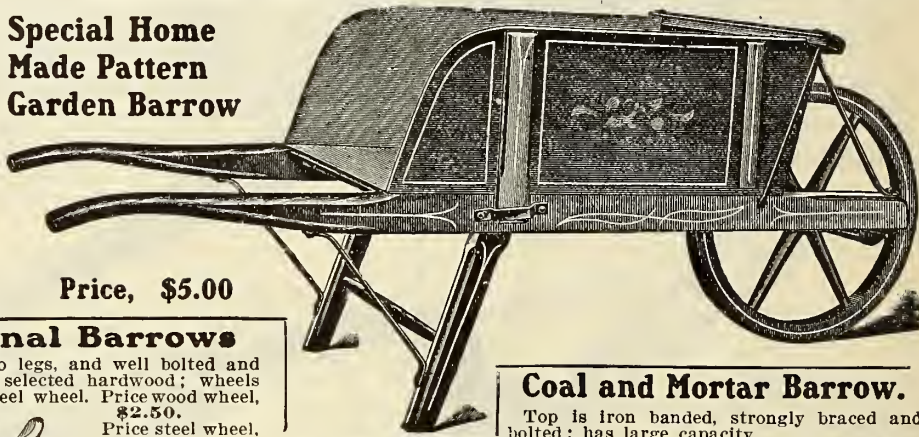
### No. 4, MEDIUM SIZE or MAN'S BARROW.

Inside measurement of box 26½ inches long, 18½ inches at wheel end, 23 inches wide at handle end, 12 inches deep. Has 20-inch wheel, 6 or 8 spokes, 1½-inch tread, ½-inch gudgeon. Painted green or blue. Bottoms matched and glued. Nicely painted and striped. Packed for export, one dozen measure 45 cubic feet. Price \$4.00.

### No. 5, LARGE SIZE or MAN'S BARROW.

Inside measurement of box 28 inches long, 20 inches wide at wheel end, 24 inches wide at handle end, 12 inches deep. Has 22-inch wheel, 6 or 8 spokes, 1½-inch tread, ½-inch gudgeon. Finished as above. Packed, measure 50 cubic feet. Price \$4.50.

### Special Home Made Pattern Garden Barrow

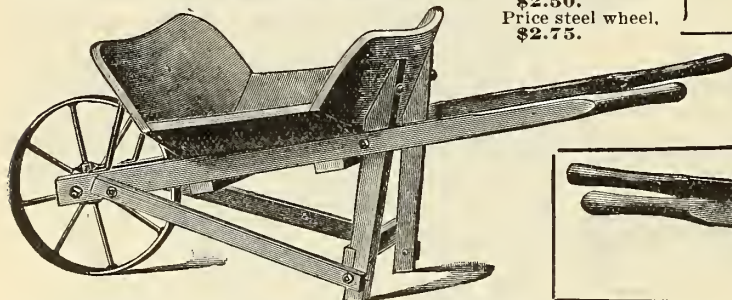


Price, \$5.00

### The Baltimore Canal Barrows

Full-sized tray, edges shared, 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.

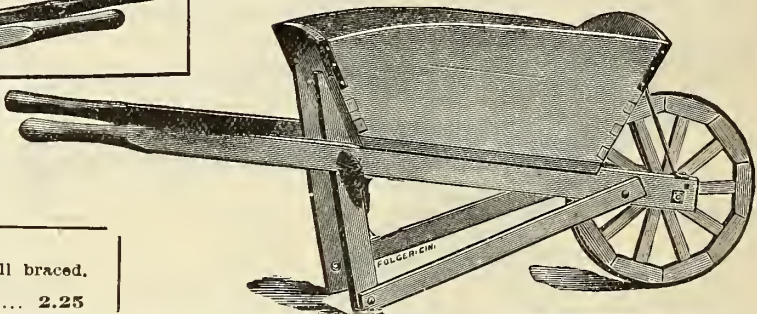
Price wood wheel, \$2.50.  
Price steel wheel, \$2.75.



### Coal and Mortar Barrow.

Top is iron banded, strongly braced and bolted; has large capacity.

Price, wood wheel.....\$3.50  
Price, steel wheel..... 3.75



### THE PLAIN BOLTED CANAL BARROWS.

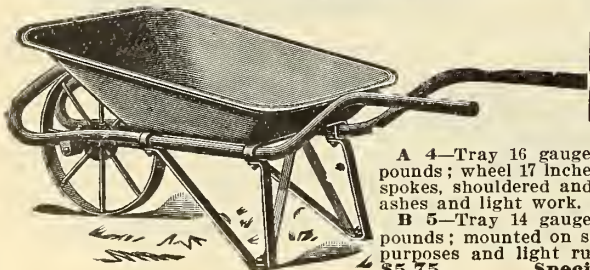
Ordinary size; belt tray; legs bolted to handles and well braced. Furnished with wood or steel wheel.

Price, wood wheel.....\$2.00 Price, steel wheel..... 2.25



### Southern Steel Tray Barrow.

### Tubular Frame Solid Pressed Steel Tray Barrow.

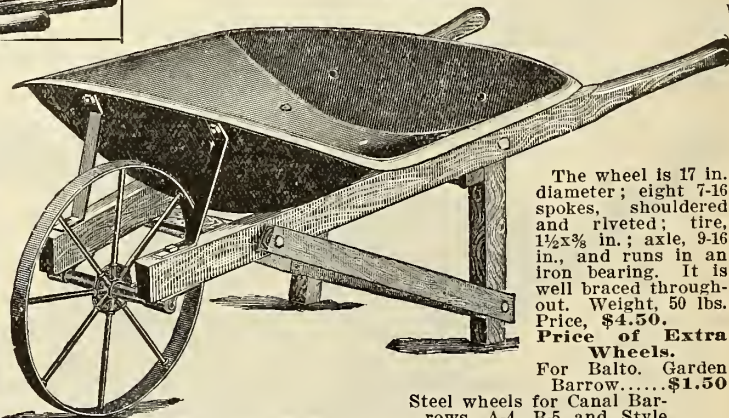


**A 4**—Tray 16 gauge, steel; capacity 3 cubic feet; weight 58 pounds; wheel 17 inches diameter; tire, 1½x¾ inches, eight ½-inch spokes, shouldered and riveted; axle ¾ inch. For moving earth, ashes and light work. Price, \$5.00.

**B 5**—Tray 14 gauge, steel; capacity 5 cubic feet; weight 75 pounds; mounted on same frame and wheel as A 4. For general purposes and light running. It will stand hard usage. Price, \$5.75. **Special Discount for Cash.**

### Wood Frame Solid Pressed Steel Tray Barrow

#### STYLE D.



The wheel is 17 in. diameter; eight 7-16 spokes, shouldered and riveted; tire, 1½x¾ in.; axle, 9-16 in., and runs in an iron bearing. It is well braced throughout. Weight, 50 lbs. Price, \$4.50.

**Price of Extra Wheels.**  
For Balto. Garden Barrow.....\$1.50

Steel wheels for Canal Barrows, A-4, B-5 and Style D., each..... 1.25  
Steel wheels for No. 10..... 1.50  
For Canal Barrow, wood... 1.00  
For Canal Barrow, steel... 1.25  
**Prices of Extra Trays.**  
For Style D.....\$2.50  
For A 4..... 2.50  
For B 5..... 3.00  
For No. 10 Coal and Coke... 5.00



### BALTIMORE STORE TRUCK.

List Price.....	\$4.00
Retail Price.....	2.00

### NEW YORK PATTERN.

HALF STRAPPED.		FULL STRAPPED.	
No.	price.	No.	price.
No. 0..	\$1.40	No. 0..	\$5.15
No. 1..	4.60	No. 1..	5.35
No. 2..	6.10	No. 2..	7.10
No. 3..	8.00	No. 3..	9.00
No. 4..	10.00	No. 4..	11.00
No. 5..	11.50	No. 5..	13.50

### 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.



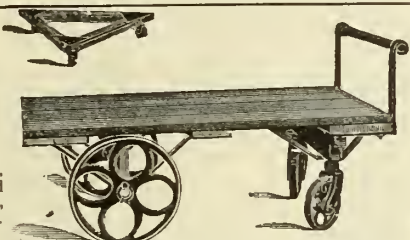
**BALTIMORE STORE TRUCK.**

### Dimensions and Prices Cast-Iron Truck Wheels.

No.	Lbs. Weight.	Height, in.	Face, in.	Hub, in.	Bore, in.	List.	Retail price.
No. 0.....	4½	6½	1½	2¼	¾x¾	.54	.30
Nos. 1 and 2..	7¼	8	2	2½	¾x¾	.87	.55
No. 3.....	12¾	9½	2½	3¼	1x1	1.52	.90
Nos. 4 and 5..	17½	11	3	3¾	1x1½	2.10	1.23
Heavy .....	25	12	3	3¾	1x1½	3.00	1.75

### 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	\$15.00
No. 21.....	3x5 ft.	18 in.	9 in.	200 lbs.	35.25	21.15

### COTTON TRUCKS.

No.	List.	Retail.
No. 3.....	\$9.00	\$5.40
No. 4.....	11.00	6.60
No. 5.....	13.50	8.10

No.	Length Handles.	Width Nose.	Width at Upper bar.	Diameter Wheels.	Weight.
No. 3	4' 10"	15½"	21"	9½"	74 lbs.
No. 4	5' 0"	16"	23"	11"	104 lbs.
No. 5	5' 3"	18"	23"	10"	95 lbs.
No. 6	5' 9"	20"	23½"	12"	125 lbs.



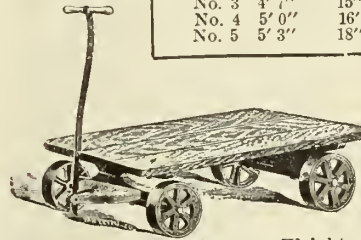
**NEW YORK PATTERN.**

### NEW YORK BARREL TRUCKS.

No.	List.	Retail.	No.	List.	Retail.
No. 1..	\$7.00	\$4.25	No. 4..	\$12.50	\$7.50
No. 2..	9.00	5.40	No. 5..	15.00	9.00
No. 3..	10.50	6.30			

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.

### 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.	Weight.	Diam. Wheels.	List.	Retail.
No. 82..	2 ft. 4 in. by 3 ft. 4 in.	100 lbs.	7½ in.	\$14.00	\$8.40
No. 83..	2 ft. 6 in. by 3 ft. 6 in.	115 lbs.	7½ in.	15.00	9.00
No. 84..	3 ft. by 4 ft.	125 lbs.	8½ in.	17.00	10.25

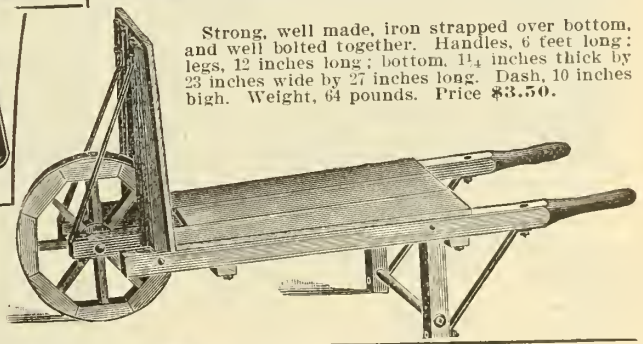
Can furnish Special Trucks at lowest prices; also Truck Wheels. Write for prices.

## 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 inches; width of top of tray, 33 inches; depth of wheel, 12 inches; depth at handle, 6 inches; capacity, 6 cubic feet; weight, 110 pounds. Price \$9.00.

### Straight Handle Stone or Brick Barrow.

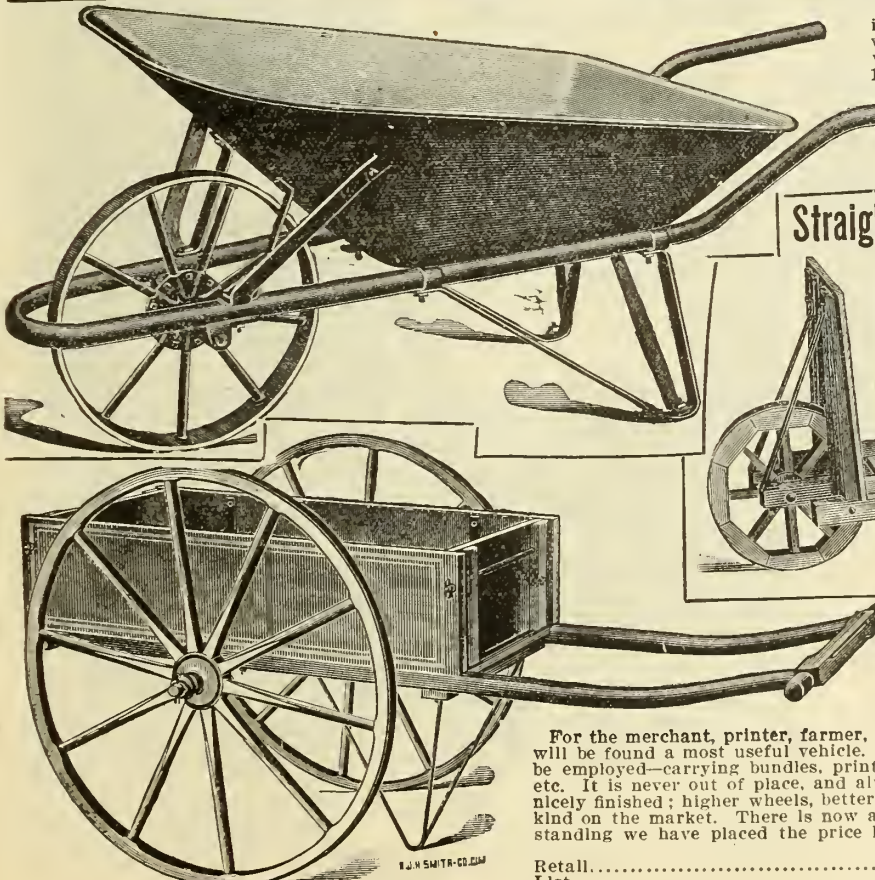
Strong, well made, iron strapped over bottom, and well bolted together. Handles, 6 feet long; legs, 12 inches long; bottom, 1¼ inches thick by 23 inches wide by 27 inches long. Dash, 10 inches high. Weight, 64 pounds. Price \$3.50.



## BALTIMORE PUSH CART.

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.

PRICES.	
Retail.....	\$7.50
List.....	13.50

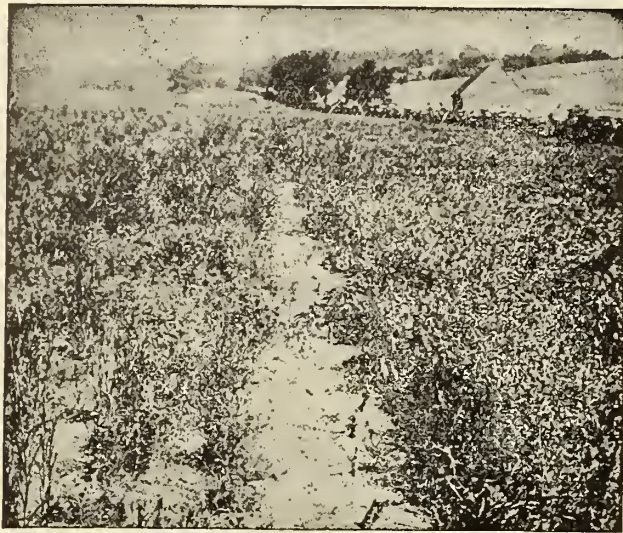


# Nitrogen Collecting Bacteria.

Write to us about this wonderful discovery made by the Agricultural Department.

**THE U. S. DEPARTMENT OF AGRICULTURE SAYS:**

"It is worse than useless to attempt to grow any leguminous crop without being certain of the presence of the bacteria which enable the plants to fix free nitrogen. Certain regions are practically devoid of the right kind of bacteria, and unless some artificial means of inoculating the germs be resorted to the crop will be a failure."



An Experiment with Vetch on Barren Ground. At the Left the Seed was not Treated, on the Right it was Inoculated Before Planting. (From Year Book of Dept. of Agriculture.)

## Immense Crops. Nitro-Culture.

Nitro-Culture is a germ, sold in dry packages like a yeast cake. (Dissolve in water as per directions, which come with each package.) A new, sure and easy way has recently been discovered to make worn-out or poor land enormously productive without fertilizers and almost without expense. Plants need nitrogen—can't grow without it. Heretofore fertilizers have been needed to put nitrogen into the soil. Nitrogen is very necessary—is the most expensive part of fertilizers. The new way is easier, surer, cheaper—it is to let nitrogen gathering germs feed the plants.

The soil is full of air. Air is four-fifths free nitrogen. Think what limitless plant food, in the form of free nitrogen, the air contains. Right here the new discovery comes in. Plants can't extract nitrogen from the air, but there are germs that can. These germs have been discovered, and are now being used for that purpose.

These germs, when put into the soil, fasten themselves to the roots of the plants, draw the free nitrogen out of the air, and feed it to the plants. That's the secret of the new way that is making many farmers rich. The germs do the work—the farmer gets the profit. They save expense, reduce the work, increase the crop enormously, even make it possible to grow Alfalfa and other crops where they never would grow before.

The new way saves the cost of fertilizers, and is very easy to use. The germs come ready for use, in a form called Nitro-Culture. Nitro-Culture is put up in small dry packages; you can put in your vestpocket. Simply add it to water and sprinkle the water over the seeds before planting. The germs remain on every seed—live with it—increase about it—feed the roots when they start and keep on feeding them. They also enrich the soil by storing nitrogen in it, so that the second year's crop, whatever it may be, is increased.



Roots of Soy Beans, showing the nodules which collect the free nitrogen from the air and deposit it in the soil, thus making barren land productive, and after the first crop is harvested the ground is left richer and better for the next year's crop.

### PRICE LIST.

Nitro-Culture, sufficient to inoculate the following seeds per acre, mailed to any address in the United States or Canada at the following prices:

- Alfalfa .....per acre, \$2.00
- Red Clover..... " 2.00
- Crimson Clover..... " 2.00
- Japan Clover..... " 2.00
- Cow Peas..... " 2.00
- Garden Peas.....½ acre, 1.00
- Sweet Peas.....½ acre, 1.00
- Wax Peas.....per acre, 2.00
- Soy Beans..... " 2.00
- String Beans..... " 2.00
- Vetch ..... " 2.00
- Velvet Beans..... " 2.00
- Peanuts ..... " 2.00
- Horse Beans..... " 2.00
- Lima Beans..... " 2.00

Will keep six months from date of shipment, and can be used within that time.

### CLOVER.

Does your clover always make a good catch? Does it sometimes leave spots or bare places in your field? Does some of it get killed out by severe winter weather? If so, inoculate the seed with Nitro-Culture.

The following table is taken from circular of the parties who furnish us with Nitro-Culture.

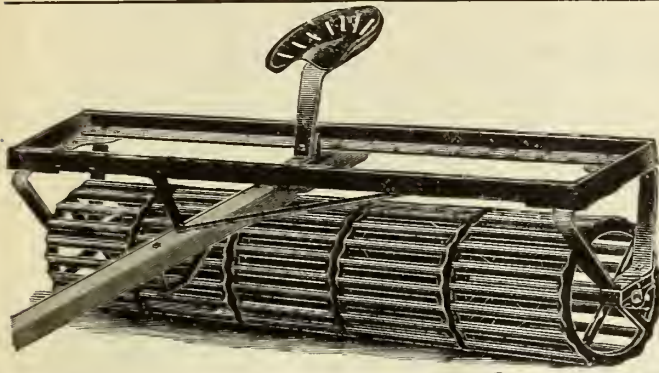
**WHAT ABOUT THE SECOND YEAR CROP? READ THIS.**

	Original yield per acre.	Yield per acre after inoculated crop.	Gain in Weight.	Gain in Value.	Per Cent. of Gain.
Cotton,	932 lbs.	After Red Clover, 1304 lbs.	372 lbs.	\$44.64	40 per cent.
Potatoes,	67¼ bushels.	After Crimson Clover, 102¼ bushels.	34.4 bushels.	15.00	50 per cent.
Oats,	3.4 bushels.	After Velvet Beans, 33.6 bushels.	25.2 bushels.	9.00	300 per cent.
Rye,	4.5 bushels.	After Peas, 23.5 bushels.	19.8 bushels.	9.85	400 per cent.
Wheat,	18.6 bushels.	After Melilotus, 26.9 bushels.	8.3 bushels.	6.50	46 per cent.



Specimen plants characteristic of uninoculated and inoculated field of Alfalfa on farm near Bynum, Harford County, Maryland. The uninoculated plants turning yellow, though sown on ground richer and better than the inoculated field. Gain from inoculation with Nitro-Culture nearly 500 per cent. by weight.

UNCLASSIFIED GOODS.



THE 1905 STEEL CYCLONE, STEEL FRAME, STEEL BRACKET ROLLER AND PULVERIZER.

Will not twist or work at corners. Steel Brackets with necessary Weight and Strength. A Successful Roller and Pulverizer Combined. There are Other Good Rollers and other Good Pulverizers, but no other Good Combined Machine.

MADE IN THREE SIZES:

No. 2-4 Sections, 6 feet long, 850 pounds.....	\$28.00
No. 3-5 Sections, 7½ feet long, 1000 pounds.....	31.00
No. 4-6 Sections, 9 feet long, 1150 pounds.....	35.00

Trolley Roller-Bearing Steel Barn Door Hanger, No. 123.

Weight, Per Pair, 10 Lbs. Pendant 6 in. Long, 3½ in. Wide, 3-16 in. Thick.

These Hangers have lateral adjustment, and are suitable for doors from 1¼ to 2¼ 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.

Price No. 123 Hangers, per pair.....	\$1.50
Price No. 131 Hanger track, per foot.....	.12
Price No. 52 center brackets, each.....	.12

TROLLEY HANGER, No. 224.

Weight, Per Pair, 12 Lbs. Pendant 9 in. Long, 3½ in. Wide, 3-16 in. Thick.

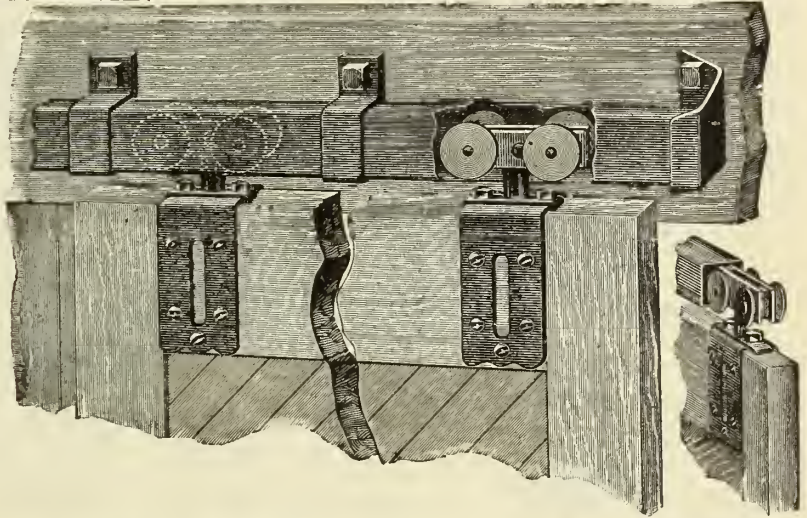
Same as above, except they are suitable for doors from 2 to 3 inches thick, weighing from 400 to 600 lbs.

They run on same track as above described, and include same fixtures at the price.

Price 1 pair Hangers, No. 224, per pair.....	\$2.00
Price trolley track, per foot.....	.12
Price No. 52 center brackets, each.....	.12

Always give exact thickness of doors, exact width of opening, and state whether for single or double door.

See Also Bottom of Page 122.

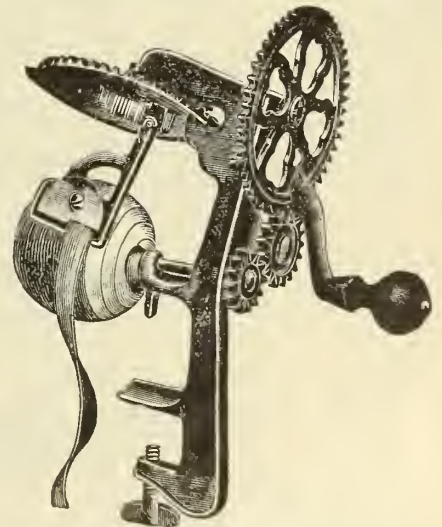


EXCELS FOR ABORTION, BARRENNESS, RETAINED AFTERTH, AND ALL COW DISORDERS.

Put up in Quart tin can. Directions pasted on each container. Price, per Quart, 50c.

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

'98 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 nor slice. Push-off is automatic. Price, 70c. each.

**UNCLASSIFIED GOODS.**

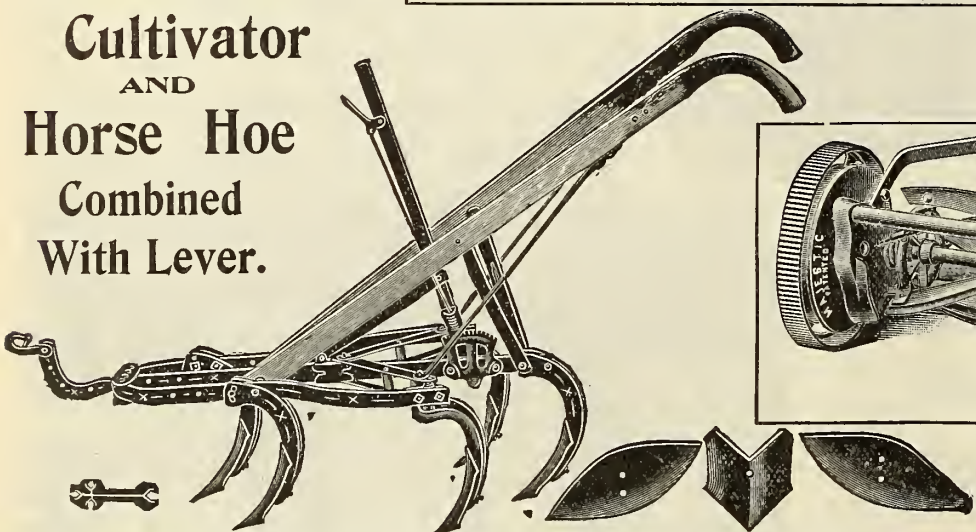
**Baltimore Ball-Bearing Lawn Mower.**

Have succeeded in producing a ball-bearing lawn mower at practically as low prices as the non-ball-bearing machines. The superiority of ball bearings is now universally acknowledged, combining ease of draft with the least possible friction. These mowers are correctly built after the most approved methods of lawn mower construction.

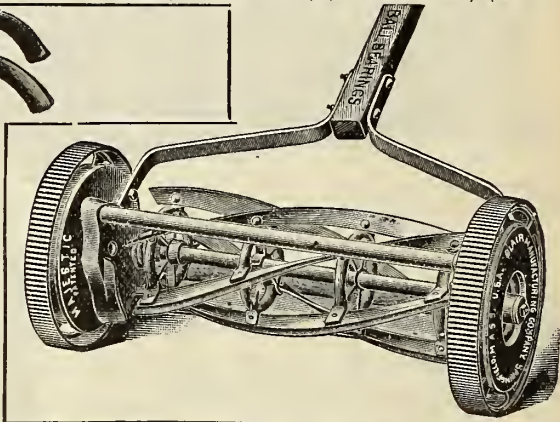
Baltimore Low Wheel 8-inch Wheels. 14-inch, \$4.25. 16-inch, \$4.50. 18-inch, \$4.75.  
 Baltimore High Wheel 10-inch Wheels. 14-inch, \$8.00. 16-inch, \$8.50. 18-inch, \$9.00.

**Lord Baltimore**

**Cultivator  
AND  
Horse Hoe  
Combined  
With Lever.**

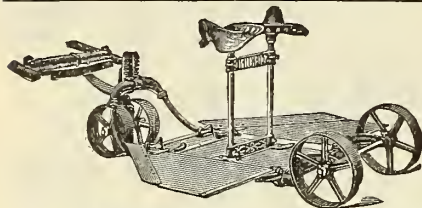


Equipped with the latest improved hollow steel Standard and Lever expander and outside Handle Braces. Extra high steel frame. Standards are interchangeable, there being no "right" nor "left," as in solid standards in general use. The horse hoe standards differ from the other three, and take either the regular cult, 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. **Price, \$4.50.**



**AUTOMATIC DRY FEED  
POULTRY TROUGH.**

Made of galvanized iron; very strong; has three cells; feed flows as fast as consumed by the fowls; no waste; keep feed clean. **60c.**



**Scientific  
Corn  
Harvester,  
No. 1.**

Knives 2 feet apart 4 points and 5 feet, 9 inches apart at heel. SAFETY SEATS PROTECT OPERATOR AND ADJUSTABLE SAFETY SHAFTS PROTECT THE HORSE.

The cut can be adjusted from 3 inches to 14 inches high.

Steel frame and malleable iron parts make it strong and durable. Steel knives tempered. Set on wings so as to give an easy upward shearing cut.

Steel wings fold up when not in use. Ears are not knocked off. Operator sits down while at work. Weight, 300 pounds.

Price on Application.

**Crown Wheelbarrow Seeder.**

Made with wood or steel frame, with wire rope feeder; very strong, and will sow accurately the various clovers, timothy, etc. Furnished in either 14 or 16-foot lengths. Price, 14-foot, \$6.00. 16-foot, \$6.25.

**Oriole Brand Roofing Paper.**

2-Ply Ready Roofing Felt, 108 square feet in each roll, per roll.....	\$0.90
3-Ply Ready Roofing Felt, 108 square feet in each roll, per roll.....	1.10
Can furnish a cheaper grade if desired.	
Coal Tar, per barrel.....	7.50
Roofing Pitch in barrels of about 300 pounds, per 100 pounds.....	1.75
Roofing Nails, per pound.....	.06
Roofing Caps, per pound.....	.06

**Asparagus Knife. Enameled Shank, Polished Blade.**

PRICE, 30 Cts.



**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 rate of 1000 to 1500 pounds per acre. Price, 100 pounds, \$1.50. Barrel, \$2.50. Ton, \$18.00.

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

# 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.

## 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 of the ingredients necessary to supply what may be lacking in the soil for almost any crop.

Price, \$25.00 per ton.

## 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, \$22.50 per 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, \$22.50 per 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 be convinced.

Price, \$27.00 per ton.

## Dissolved Bone.

Made from stock containing some meat, thoroughly dissolved, and in fine drilling condition.

Farmers wishing a fertilizer for immediate action will find in this brand a reliable manure of good value, and one whose good effect can be seen for a long time.

Price, \$27.00 per ton.

## Soluble Bone Phosphate.

A good cheap Fertilizer. Quite a number of chemists claim that Ammonia adds very much to the cost of Fertilizers without being of much agricultural value; that is, sufficient Ammonia can be obtained from the atmosphere, etc., etc. Whether or not this theory is correct, quite a number of people have used our Soluble Bone with very satisfactory results. To supply such a trade we offer the above.

Price, \$16.00 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, 157 lbs.

\$4.00 per bag, \$45.00 per ton.

## Special Mixture.

A new brand introduced by us this year; a complete Fertilizer containing Ammonia, Potash and available Phosphoric Acid in proper proportions.

Price, \$17.00 per ton.

## Peruvian Guano.

10 per cent. goods. In bags of 167 pounds.

## High Grade Acid Phosphate.

## Kainit, Muriate of Potash.

## Nitrate of Soda. Fine Ground Fish. Ground Tankage.

Prices on application.

## Land Plaster.

In bags 200 pounds each.

90c. per bag, \$7.50 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.

## Bone Flour.

Made especially for Florists and Gardeners. This flour is passed through a 30-mesh screen and is consequently exceedingly fine, and in addition to this, it is the Pure Bone, containing no foreign matter at all. Write for sample.

Price, \$4.00 per bag of 167 lbs.

## Soft Ground Bone.

In packages.

5 lbs., 25c.; 10 lbs., 40c.

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

## KILL-o-SCALE.

### THE GREAT SAN JOSÉ SCALE EXTERMINATOR.

#### DIRECTIONS.

KIL-o-SCALE is a concentrated LIQUID and is shipped in barrels, kegs and cans.

To 1 gallon of Kil-o-Scale add 20 to 25 gallons of cold water and stir. It is then ready to be applied to the trees.

If a second application is desired, dilute 1 gallon of Kil-o-Scale with 40 gallons of water.

#### PRICE:

One Gallon, \$1.50; Five or Ten Gallons, @ \$1.25 per Gallon.

Special Price in Barrels.

Correspondence Solicited.

For further information, see Insecticide pages, interior of catalogue.

### LIME, SULPHUR AND SALT WASH.—TO MAKE FIFTY GALLONS.

Best unslaked lime.....30 pounds.  
Flour sulphur.....15 pounds.  
Stock salt.....12 pounds.  
Water to make.....50 gallons.

#### DIRECTIONS.

Place ten pounds of lime and all of the sulphur in a boiler containing twenty gallons of water, and boil over a brisk fire for not less than one hour and a half, or until the sulphur is thoroughly dissolved. When this takes place the mixture will be of an amber color. Next place in a cask twenty pounds of unslaked lime, pouring over it enough hot water to thoroughly slake it, and while it is boiling add the twelve pounds of salt. When the salt is dissolved, add the lime and salt mixture thus prepared to the lime and sulphur in the boiler, and cook for half an hour longer, when the necessary amount of hot water to make the fifty gallons should be added.

In pouring the wash into the barrel, it should be well strained to remove any particles of lime that may not have dissolved, and a fine wire strainer should be used. This wash may be more conveniently cooked by the use of steam, where a steam-engine of any kind is available. Many orchardists could doubtless afford to purchase small steam boilers, as steam food-cooking boilers, for the preparation of this wash. A boiler may be secured of sufficient size to cook two or three barrels of the wash at the same time, at a cost of from thirty to forty dollars. Best results will come from the use of the wash if applied to the trees in the spring, somewhat before the buds begin to swell. It is a very caustic treatment, and consequently can be used on trees only when in a practically dormant condition.

The barrel "Pomona" and Fruitful Spray Pumps are excellent for the application of this wash.

It is essential that the pump have a strong agitator, otherwise the sediment will be inclined to settle on the bottom of the barrel.

For prices on Sulphur and other Insecticides see Insecticide pages.

## How to Make INSECTICIDES

### FUNGICIDES.

#### BORDEAUX MIXTURE.

Copper Sulphate .....6 pounds.  
Quicklime .....4 pounds.  
Water.....40-50 gallons.

Dissolve the copper sulphate by putting in a bag of coarse cloth and hanging this in a vessel holding at least 4 gallons, so that it is just covered by the water. Use an earthen or wooden vessel. Slake the lime in an equal amount of water. Then mix the two, and add enough water to make 40 gallons. It is then ready for immediate use, but will keep indefinitely. If the mixture is to be used on peach foliage, it is advisable to use an extra pound of lime to the above formula. When applied to such plants as carnations or cabbages, it will adhere better if about a pound of hard soap be dissolved in hot water and added to the mixture. For rots, molds, mildews, and all fungus diseases.

#### COPPER SULPHATE SOLUTION.

Copper Sulphate.....1 pound.  
Water.....15 gallons.

Dissolve the copper sulphate in the water, when it is ready for use. This should never be applied to foliage, but must be used before the buds break. For peaches and nectarines, use 25 gallons of water. For fungus diseases.

### INSECTICIDES.

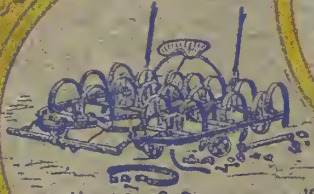
#### KEROSENE EMULSION.

Hard Soap.....½ pound.  
Boiling Water.....1 gallon.  
Kerosene.....2 gallons.

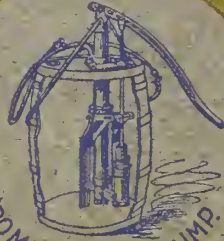
Dissolve the soap in water, add the kerosene, and churn with a pump for 5 to 10 minutes. Dilute 10 to 25 times before applying. Use strong emulsion for all scale insects. For insects which suck, as plant lice, mealy bugs, red spider, thrips, bark lice, or scale. Cabbage worms, currant worms, and all insects which have soft bodies, can also be successfully treated.

# GRIFFITH & TURNER CO.

## BALTIMORE.



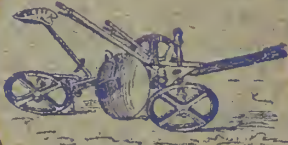
HENCH & DROMGOLD'S  
LEVER HARROW



"POMONA" SPRAY PUMP



WATER CART



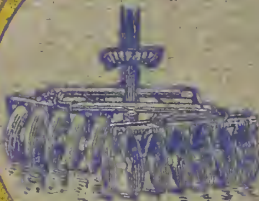
CHATTANOOGA-HANCOCK  
DISC PLOW



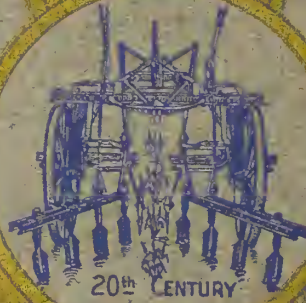
GRIFFITH & TURNER  
STUDEBAKER  
AND  
BROWN



GENUINE OLIVER  
CHILLED PLOW

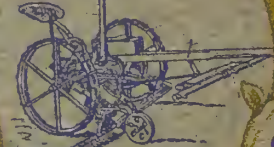


BELL'S CENTER-CUT  
DISC HARROW



20<sup>th</sup> CENTURY  
CULTIVATOR

WALTER A. WOOD



STEEL MOWER

GRIFFITH  
AND  
TURNER CO'S  
ANIMAL  
BONE  
PHOSPHATE

# FARM AND GARDEN SUPPLIES

*Illustrations*