

TS 2155

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ILLUSTRATED

Price-List

— OF THE —

RICHMOND

Mill Wreath

RICHMOND, INDIANA.

Nordyke, Marmon & Co.

RICHMOND, IND.

A. M. REEVES STEAM PRINTING COMPANY.



# PRICE LIST

OF THE

# Richmond Mill Works,

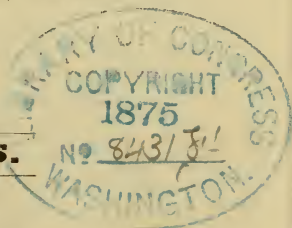
SPECIAL MANUFACTURERS OF THE

FURNISHINGS OF FLOUR MILLS,

For Quality, Design, and Workmanship, no  
Superior in America,

**RICHMOND, IND.**

**1875.**

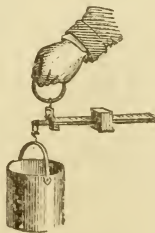
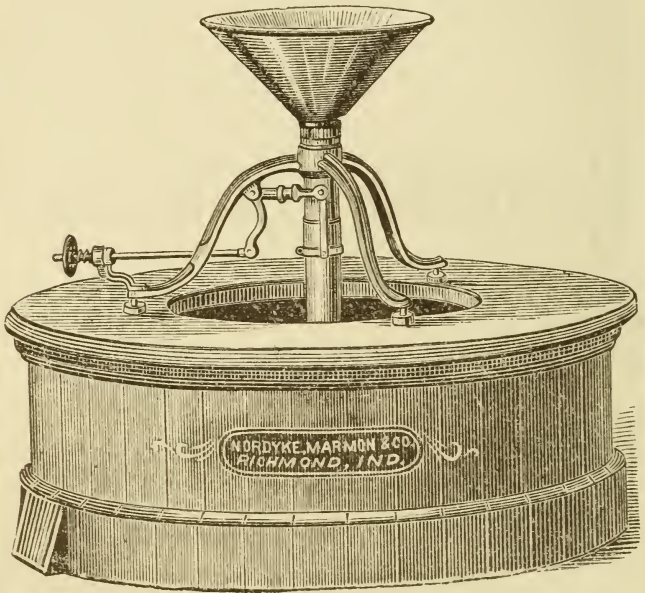


*NORDYKE, MARMON & CO.,*  
**RICHMOND, IND.**

1875.

15.10  
9420

TS 2155  
R53



THE following list of supplies is offered to our customers and the milling public with the assurance that every article will be found unexceptionable in quality, convenience, efficiency, and accuracy, and for the uses designed will prove the most economical purchase now offered.

Reference is directed to our illustrated book of over one hundred pages for more full description.

Prices subject to change with cost of material, without notice.

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Librarian of Congress, at Washington.

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**FRENCH BUHR MILL-STONES.**

STOCK OF WHICH THEY ARE MADE IMPORTED AND SELECTED BY OURSELVES.

DIAMETER OF STONE-	NEW QUARRY.		OLD QUARRY.	
	Faced.	Faced and Furrowed.	Faced.	Faced and Furrowed.
30 inch.	\$75	\$95	\$95	\$115
36 inch.	125	145	150	170
42 inch.	175	200	195	225
48 inch.	210	235	235	255
54 inch.	230	260	270	300

Special prices given for edge-block stones.

New Quarry Mill-stones will be furnished in one piece, if desired, at same price.

**COLOGNE AND COCALICO STONES.**

DIAMETER OF STONE.	COLOGNE.		COCALICO, OR ESOPUS.	
	Faced.	Faced and Furrowed.	Faced.	Faced and Furrowed.
36 inch.	\$145	\$160	\$135	\$150
42 inch.	155	175	145	165
48 inch.	180	200	163	185

All mill-stones at these prices are backed and banded.

All other irons and improved balance-boxes extra.

MILLER'S SPECTACLES, clear French glass, 30 cents each.

RUB STONES, faced, \$1 to \$2 each.

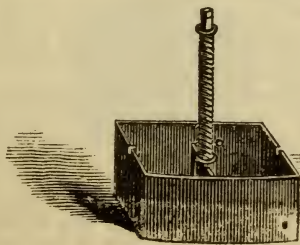
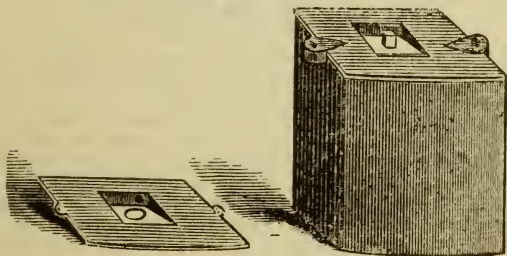
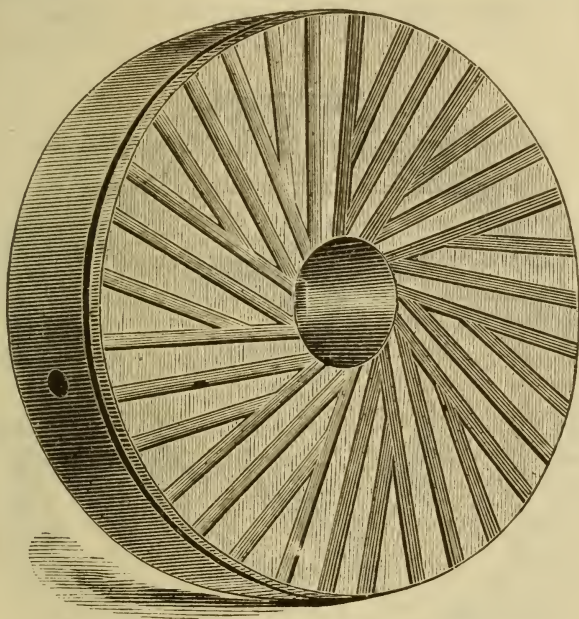
UNION STONE CO.'S CEMENT (gets hard as burr-stone), 20 cents per pound in lots of not less than twenty pounds, with bottle of liquid.

**BALANCE BOXES.**

The double box, with screw and lid, as shown, belong inside of the large one.

Price, per set of five, \$15; \$3 each.





## BOLTING CLOTH.

DUFOUR &amp; Co.'s ORIGINAL OLD DUTCH ANCHOR.

In Gold or its equivalent in Currency.

40 INCHES WIDE.	Standard or Plain.	Extra Heavy.	Double Extra Heavy.
No. 000, per yard,	\$1 43	. . . .	. . . .
" 00, "	1 48	. . . .	. . . .
" 0, "	1 55	. . . .	. . . .
" 1, "	1 65	. . . .	. . . .
" 2, "	1 87	. . . .	. . . .
" 3, "	1 98	. . . .	. . . .
" 4, "	2 10	. . . .	\$2 40
" 5, "	2 20	. . . .	2 60
" 6, "	2 43	. . . .	. . . .
" 7, "	2 54	. . . .	2 85
" 8, "	. . . .	\$2 90	3 15
" 9, "	. . . .	3 05	3 35
" 10, "	. . . .	3 15	3 45
" 11, "	. . . .	3 42	. . . .
" 12, "	3 41	3 70	. . . .
" 13, "	3 85	. . . .	. . . .
" 14, "	4 20	. . . .	. . . .
" 15, "	4 70	. . . .	. . . .
" 16, "	5 25	. . . .	. . . .

BOLTING-CLOTH MAGNIFYING GLASSES, \$1 each.

WE DO NOT KEEP the Plain or Standard Cloths of Nos. 8, 9, 10, and 11—only the heavy grades.

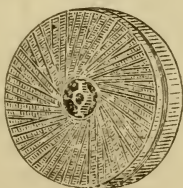
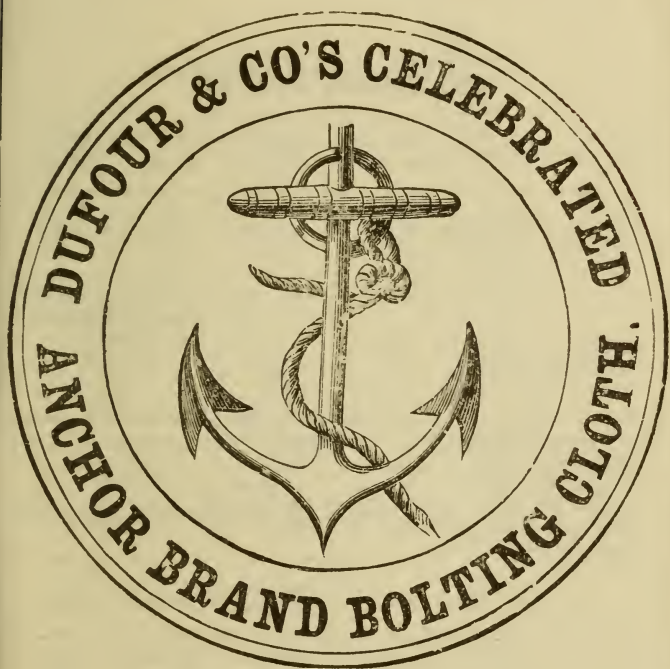
MAKING UP CLOTHS with strips of heavy ticking, sewed in to come in contact with ribs of reel, ready to put on (the correct dimensions having been given), 50 cents per foot in length. When made up without strips we charge 40 cents per foot. No charge is made for the space occupied by the strips of ticking, but only for the actual silk cloth used. Thus a cloth made up in strips is not only cheaper, but the best to the consumer.

THIS REFERS TO REELS with six ribs. For eight-rib reels we charge 65 cents per foot length of reel. All intermediate seams are first sewed, then covered on both sides with tape and double-seamed again.

DO NOT NEGLECT to give us the amount of each number of cloth wanted or your ideas about it; if not, give us the capacity you want the reel to work up to, size and quality of stones, and whether your flour is to be for home or merchant market, or both.

Under the new postal regulations small packages (say from two to ten yards or more) can be sent by mail and save express charges, if the price is sent with order.





## GRAIN-CLEANING MACHINERY.

KIND OF MACHINE.	Size of Machine.	Weight in lbs.	Without Shoe.	With Shoe.
Eureka, or Silver Creek Smut Machine . . .	No. 0	500	\$115	\$125
	No. 1	600	130	140
	No. 2	900	175	190
	No. 3	1150	240	285
California Smut Machine, with imp'd scourer .	No. 0	400	Price Complete.	
	No. 1	600	\$125	
	No. 2	800	150	
	No. 3	1000	200	
Richmond Brush Finishing Machine, for more effect'ly scouring and polishing wheat . .	No. 5	15 bu.	Capacity.	
	No. 4	25 bu.	\$175	
	No. 3	50 bu.	200	
	No. 2	100 bu.	250	

KIND OF MACHINE.	Size of Machine.	Capacity.	PRICE.
Richmond Grain Cleaner and Separator, also Oat and Weed Separator . .	No. 0	30 bu.	\$135
	No. 1	65 bu.	185
	No. 2	90 bu.	225
	No. 3	150 bu.	275

## FOR SPRING WHEAT.

KIND OF MACHINE.	Size of Machine.	Number of Seives.	Capacity.	PRICE.
Barnard's Oat & Weed Extractor and Separator . . . . .	No. 1	4	25 bu.	\$135
	No. 2	4	45 bu.	160
	No. 3	4	60 bu.	185
	No. 4	4	80 bu.	210
	No. 5	4	100 bu.	225
FOR WINTER WHEAT.				
	No. 1½	3	35 bu.	\$135
	No. 2½	3	60 bu.	160
	No. 3½	3	100 bu.	185

WAREHOUSE RECEIVING SEPARATORS.

KIND OF MACHINE	Size of Machine.	Number of Seives.	Capacity.	PRICE.
Richmond Loft- ing Separator & Grain Clean- er . . . . .	No. 0	8	150 bu.	\$150
	No. 1	8	300 bu.	175
	No. 2	8	600 bu.	200
	No. 3	8	900 bu.	250
Barnard's Dust- less Separator, for Millers' use & Loft'g grain	No. 1	2	100 bu.	\$135
	No. 2	2	200 bu.	160
	No. 3	2	400 bu.	185
	No. 4	2	600 bu.	210

Patent Wheat Steamer (or Dampener), price . . . . . \$50  
 Little Giant Grain Scourer, Feeder, and Separator, price with  
 glass tube . . . . . 85  
 Price with iron tube . . . . . 80  
 Vandegrift's Grain Separator and Feeder, price . . . . . 50

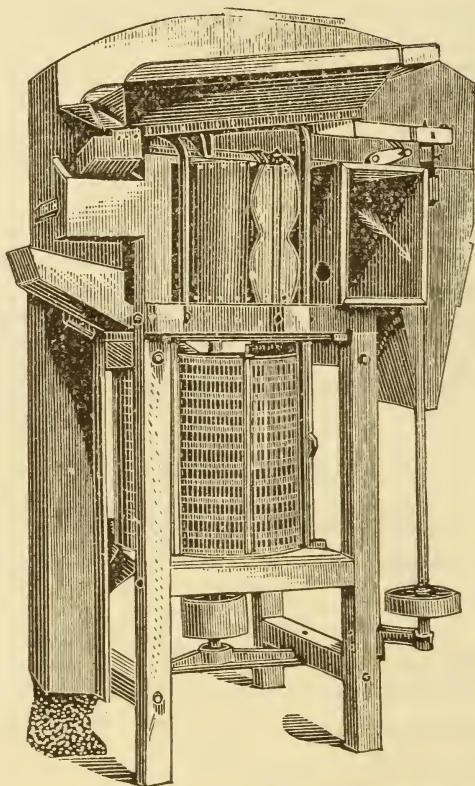
FLOUR PACKERS.

Mattison's Improved, with 16, 13, 10, and 8-inch tubes, for  
 four different sizes of barrels or sacks.

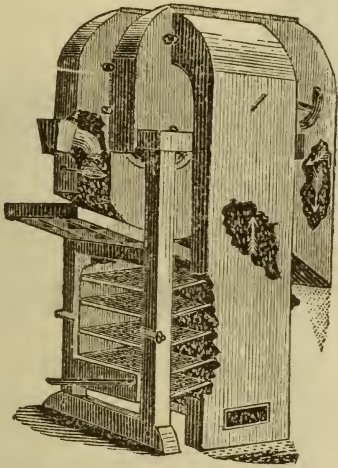
To pack barrels only . . . . . \$180  
 " " " and 98 lb. sacks . . . . . 200  
 " " " " 49 lb. " . . . . . 200  
 " " " " 93 lb. and 49 lb. sacks . . . . . 210  
 " " " " 93 lb., 49 lb., and 25 lb. sacks . . . . . 220

Weigh about 775 lbs. each.

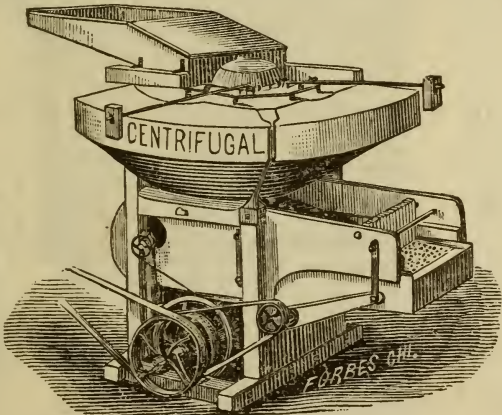
KIND OF PACKER.	Make but One Size.	Weight in lbs.	Price Comp.
Portable Screw Packer, for bbls., cap. 15 to 20 per h.	. . .	500	\$160
Portable Conical Roller, 2 bbls. at a time, 6 per hour. Same as above, 1 bbl. at a time, cap. 3 bbls per hour	Two Sizes.		
	Double.	400	\$130
	Single.	250	80



EUREKA. (SEE PAGE 8.)



RICHMOND OAT SEPARATOR. (SEE PAGE 8.)



POWER SHELLER. (SEE PAGE 14.)

**PORTABLE MILLS.**

KIND OF MILL.	Diameter of Stones.	Weight in lbs.	PRICE.
Upper Runner, pulley or single geared, with all improvements . . .	30 inch.	2100	\$260
	36 inch.	2950	300
	42 inch.	3500	400
Under Runner, pulley mill, with all improvements . . . . .	26 inch.	1300	\$210
	30 inch.	1800	250
	36 inch.	2350	300

**PORTABLE GEARED MILLS.**

IRON COGS SPACED AND DRESSED.

KIND OF MILL.	Diameter of Stones.	Weight in lbs.	PRICE.
Upper Runner, imp'd gear patterns, wood cogs in driving-wheel	30 inch.	2450	\$330
	36 inch.	3300	370
	42 inch.	4000	485
Under Runner, geared as above . . . . .	26 inch.	1650	\$270
	30 inch.	2150	320
	36 inch.	2900	370

**FLOUR BOLTS.**

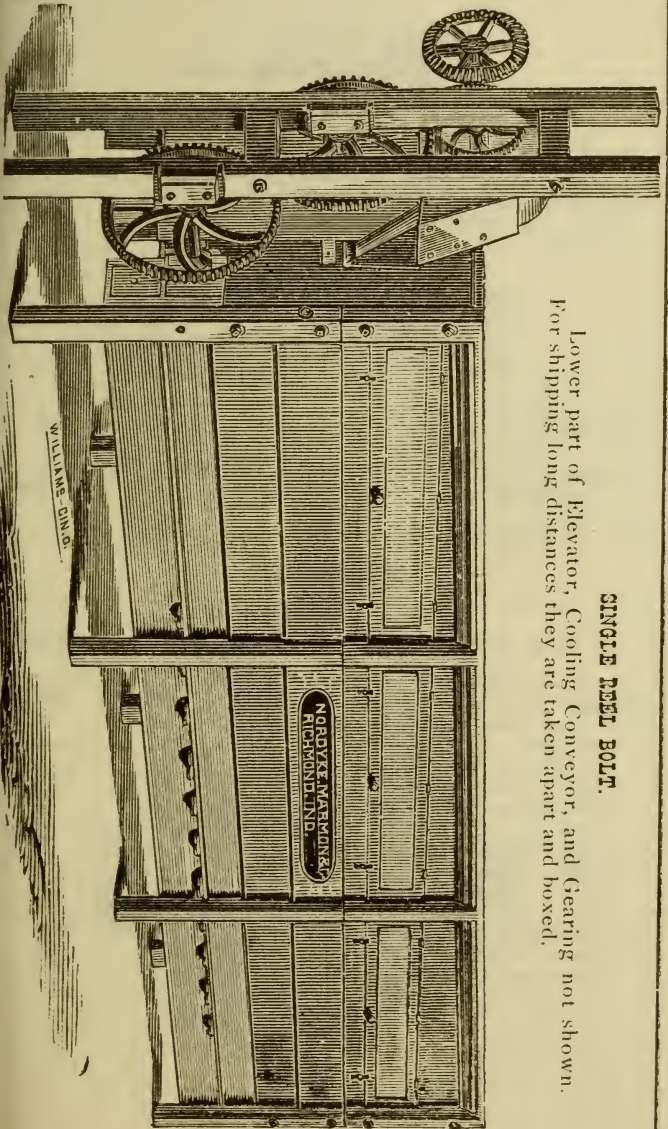
WITH ALL THE PARTS AND SUBSTANTIALLY AS DESCRIBED IN PAMPHLET.

KIND OF BOLT.	Length of Reel.	Weight in lbs.	PRICE.
Single Reel . . . . .	16 feet.	1650	\$400
	18 feet.	1750	440
	20 feet.	1850	470
	22 feet.	1975	520
Double Reel . . . . .	16 feet.	2880	\$625
	18 feet.	3200	680
	20 feet.	3450	740
	22 feet.	3725	840



**SINGLE REEL BOLT.**

Lower part of Elevator, Cooling Conveyor, and Gearing not shown.  
For shipping long distances they are taken apart and boxed.



WILLIAMS - CHAS.

**NORDYKE, MARSHALL & RICHMOND, LTD.**

FARM AND PLANTATION MILLS.

KIND OF MILL.	Size of Burrs.	Weight in lbs.	PRICE.
French Burr, for corn, feed, or middlings grinding . . . . .	14 inch.	300	\$80
	18 inch.	420	110

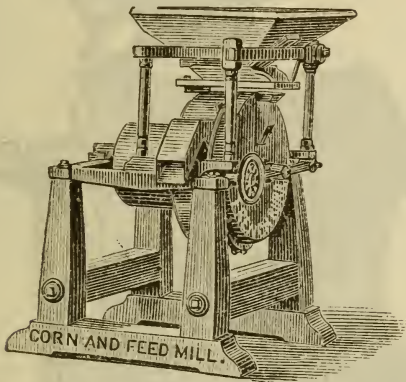
CORN AND COB CRUSHER AND GRINDER.

KIND.	Make but One Size.	Weight in lbs.	PRICE.
Chilled Iron Grinder . . . . .	. . . . .	200	\$25

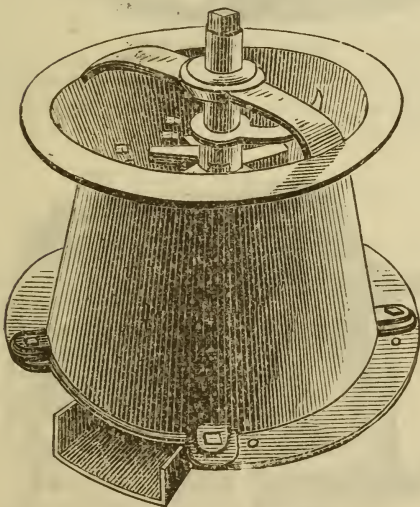
Geared to run from horizontal shaft, tight and loose pulley, hopper, etc. . . . . \$90

CORN SHELLERS.

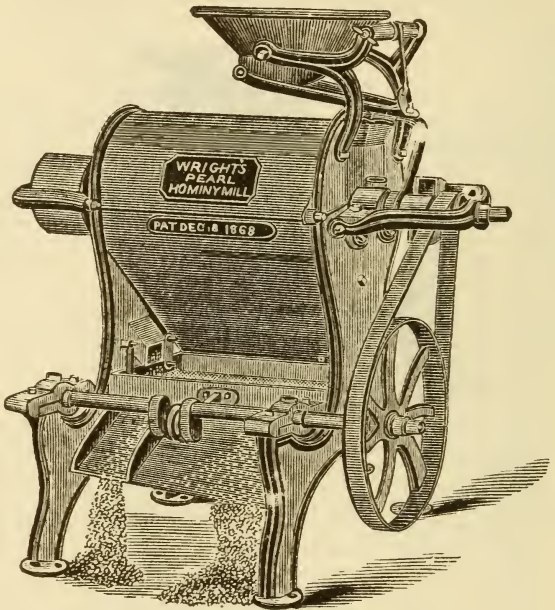
KIND OF SHELLER.	Size.	Weight in lbs.	PRICE.	
Monitor—to shovel into hopper, cleaner, fan, etc., complete. No. 1 shells 50; No. 2, 100 bu. per hour. Those geared run from horizontal shafts . . .	No. 1	280	\$80	
	No. 2	590	90	
	No. 1 No. 2	No. 1	350	\$100
		No. 2	665	110
Triumph—has horizontal cylinder; shells 2,000 bu. per day; has fan and cleaner .	No. 2	430	\$85	
Centrifugal—to shovel corn direct into the hopper, fan, screen, etc., complete	No. 1	750	\$150	
	No. 1½	420	100	
	No. 2	380	85	
Veteran . . . . .	2" hole, hand or power.	250	\$35	
Cadet . . . . .	1 hole, hand.	150	\$20	



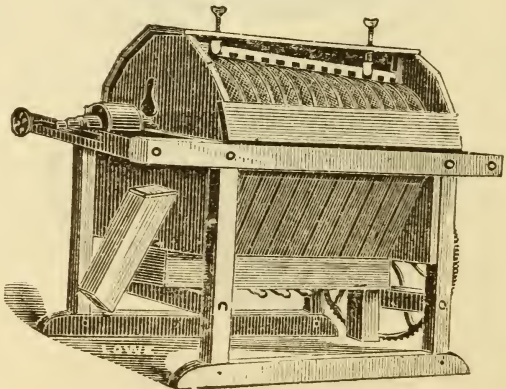
FARM AND PLANTATION MILL.



CORN AND COB CRUSHER.



PEARL HOMINY MILL.



RICHMOND BRAN DUSTER.

**HOMINY MILLS.**

KIND.	Make but One Size.	Weight in lbs.	PRICE.
Wright's Pearl Hominy Mill, 8 in. pulley, speed 1,000 rev.	Takes 4 to 5 Horse Power to drive.	500	\$200

**BRAN DUSTERS.**

KIND OF BRAN DUSTER.	Size of Machine.	Weight in lbs.	PRICE.
Improved "Excelsior," or Silver Creek . . . . .	No. 1	400	\$200
	No. 2	500	250
	No. 3	600	300

KIND.	Size.	Capacity in 24 hours.	PRICE.
Richmond Conical Bran Duster and Wire Bolt . . . . .	No. 0	40 to 50 bbls.	\$175
	No. 1	50 to 75 bbls.	200
	No. 2	100 to 125 bbls.	250
	No. 3	150 to 200 bbls.	300
	No. 4	225 to 300 bbls.	350

**HAY, GRAIN, OR STOCK SCALES.**

KIND OF SCALES.	Capacity.	Size of Platform.	PRICE.
These Scales are particularly adapted where ground is low, as a depth of only 16 to 24 inches is required; easily set on the surface by grading up . . .	3 tons.	8x14 ft.	\$145
	4 tons.	8x14 ft.	165
	4 tons.	8x22 ft.	215
	5 tons.	8x14 ft.	200
	6 tons.	8x14 ft.	225
	6 tons.	8x16 ft.	250
	6 tons.	8x22 ft.	300
	8 tons.	8x14 ft.	270
	10 tons.	8x15 ft.	300
	10 tons.	8x18 ft.	330
	15 tons.	8x18 ft.	400



SCALES.

KIND OF SCALES.	Size . . . . .	Capacity in lbs. .	Price without Wheels . . . . .	Price with Wheels . . . . .	Price with Heavy Wheels & Drop Lever . . . . .
General Purpose Plat- form Scales . . . . .	No. 11	300	\$21	. . . .	. . . .
	No. 10	400	23	\$26	. . . .
	No. 9	600	30	33	. . . .
	No. 8	900	39	43	. . . .
	No. 8	1000	. . . .	. . . .	\$51
	No. 7	1200	45	49	59
	No. 6	1500	55	60	70
	No. 5	2000	70	75	82
	No. 4	2500	80	85	94

Cornometer, or Grain Tester, price . . . . . \$15

GRAIN OR HOPPER SCALES.

Capacity in Bushels.	Size of Platform.	With one Pillar.	With two Iron Pillars.
30 bushels.	27x36 in.	\$84	. . . .
40 "	27x36 in.	92	. . . .
60 "	36x43 in.	105	. . . .
60 "	43x45 in.	. . . .	\$125
100 "	48x48 in.	. . . .	155
100 "	6x 8 ft.	. . . .	155
125 "	6x 8 ft.	. . . .	180
150 "	7x 9 ft.	. . . .	205
300 "	9x10 ft.	. . . .	285

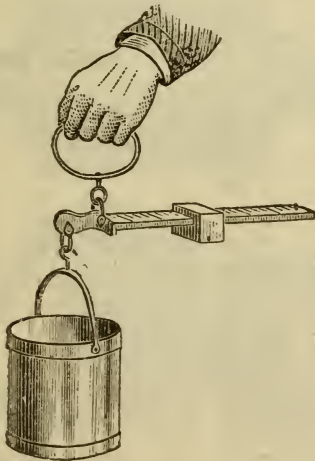
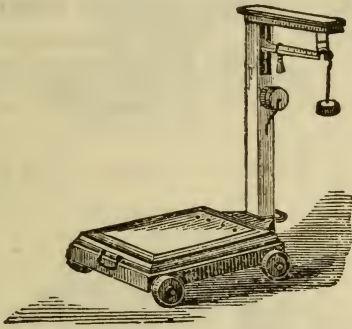
When required can put these scales on wheels at small additional expense.

FLOUR SCALE.

Has patent Drop Lever, operated by the foot; can be used as a packing scale, or separately as a dormant, if desired.

Dormant, capacity 600 lbs., price . . . . . \$40





**WROUGHT-IRON TURNED  
SHAFTING.**

Diameter of Shaft.	Price per foot.
1 $\frac{3}{16}$ in.	\$0 45
1 $\frac{7}{16}$ in.	55
1 $\frac{11}{16}$ in.	70
1 $\frac{15}{16}$ in.	87
2 $\frac{3}{16}$ in.	1 06
2 $\frac{7}{16}$ in.	1 30
2 $\frac{11}{16}$ in.	1 53
2 $\frac{15}{16}$ in.	1 86
3 $\frac{3}{16}$ in.	2 18
3 $\frac{7}{16}$ in.	2 56
3 $\frac{15}{16}$ in.	3 75
4 $\frac{7}{16}$ in.	5 10

**SHAFTING COUPLINGS.**

Diameter of Shaft.	Price each.
1 $\frac{3}{16}$ in.	\$5 40
1 $\frac{7}{16}$ in.	5 75
1 $\frac{11}{16}$ in.	6 30
1 $\frac{15}{16}$ in.	7 00
2 $\frac{3}{16}$ in.	7 50
2 $\frac{7}{16}$ in.	8 25
2 $\frac{11}{16}$ in.	10 00
2 $\frac{15}{16}$ in.	11 50
3 $\frac{3}{16}$ in.	13 75
3 $\frac{7}{16}$ in.	16 00
3 $\frac{15}{16}$ in.	22 00
4 $\frac{7}{16}$ in.	30 00
4 $\frac{15}{16}$ in.	42 00

PATENT, DOUBLE CONE VISE COUPLINGS, add 15 per cent. to above prices.

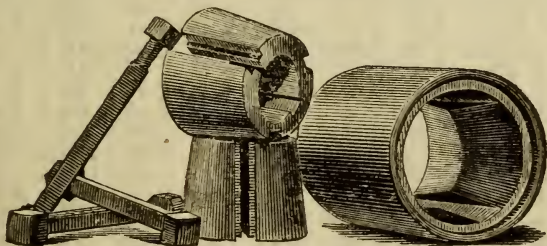
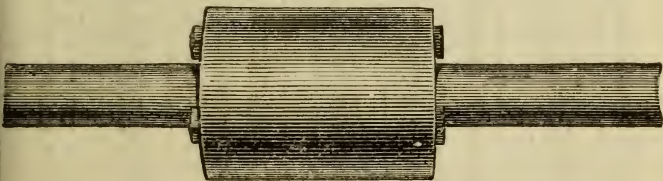
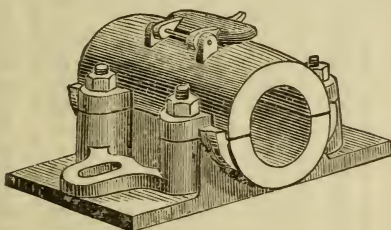
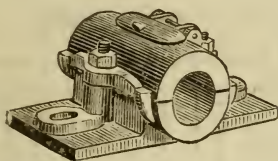
**RIGID JOURNAL BOXES,**

Or Pillow-blocks, for Horizontal and Upright Shafts, with Babbitt-metal Lining, improved. *See cuts.*

Diameter.	Length of Box.	Price each.
$\frac{15}{16}$ in.	.....	.....
1 $\frac{3}{16}$ in.	.....	.....
1 $\frac{7}{16}$ in.	5 in.	\$2 30
1 $\frac{11}{16}$ in.	5 $\frac{1}{2}$ in.	2 75
1 $\frac{15}{16}$ in.	6 in.	3 30
2 $\frac{3}{16}$ in.	6 $\frac{1}{2}$ in.	3 75
2 $\frac{7}{16}$ in.	7 in.	4 50
2 $\frac{11}{16}$ in.	7 $\frac{1}{2}$ in.	5 10
2 $\frac{15}{16}$ in.	8 in.	6 30
3 $\frac{3}{16}$ in.	8 $\frac{1}{2}$ in.	7 20
3 $\frac{7}{16}$ in.	9 in.	8 50
3 $\frac{15}{16}$ in.	10 in.	10 80
4 $\frac{7}{16}$ in.	10 in.	13 20

**SAFETY SLIP COLLARS.**

Diameter.	Price each.
1 $\frac{3}{16}$ in.	\$0 80
1 $\frac{7}{16}$ in.	1 00
1 $\frac{11}{16}$ in.	1 20
1 $\frac{15}{16}$ in.	1 40
2 $\frac{3}{16}$ in.	1 60
2 $\frac{7}{16}$ in.	1 80
2 $\frac{11}{16}$ in.	2 00
2 $\frac{15}{16}$ in.	2 20
3 $\frac{3}{16}$ in.	2 40
3 $\frac{7}{16}$ in.	2 65
3 $\frac{15}{16}$ in.	3 30
4 $\frac{7}{16}$ in.	3 90



PATENT DOUBLE-CONE VISE COUPLING.

IRON PULLEYS.

*Turned and Balanced, with Set-screw or Key-seat.*

Diameter	Face . .	PRICE.	Diameter	Face . .	PRICE.	Diameter	Face . .	PRICE.
6	3 1/2	\$2 00	13	3 1/2	\$3 12	19	5 1/2	\$5 87
6	4 1/2	2 27	13	4 1/2	3 42	19	6 1/2	6 70
6	5 1/2	2 54	13	5 1/2	3 72	19	8 1/2	7 64
6	6 1/2	2 81	13	6 1/2	4 04	19	10 1/2	8 58
6	8 1/2	3 10	13	8 1/2	4 96	19	12 1/2	9 52
7	3 1/2	2 15	13	10 1/2	5 85	20	3 1/2	4 77
7	4 1/2	2 42	13	12 1/2	6 74	20	4 1/2	5 32
7	5 1/2	2 69	14	3 1/2	3 32	20	5 1/2	5 87
7	6 1/2	2 96	14	4 1/2	3 65	20	6 1/2	6 42
7	8 1/2	3 23	14	5 1/2	3 98	20	8 1/2	7 88
8	3 1/2	2 42	14	6 1/2	4 31	20	10 1/2	9 47
8	4 1/2	2 57	14	8 1/2	5 28	20	12 1/2	11 06
8	5 1/2	2 84	14	10 1/2	6 21	20	14 1/2	12 65
8	6 1/2	3 11	14	12 1/2	7 22	22	3 1/2	. . .
8	8 1/2	3 38	15	3 1/2	3 47	22	4 1/2	5 72
8	10 1/2	3 65	15	4 1/2	3 82	22	5 1/2	6 36
9	3 1/2	2 53	15	5 1/2	4 17	22	6 1/2	7 00
9	4 1/2	2 76	15	6 1/2	4 52	22	8 1/2	8 56
9	5 1/2	2 99	15	8 1/2	5 62	22	10 1/2	10 32
9	6 1/2	3 22	15	10 1/2	6 68	22	12 1/2	12 08
9	8 1/2	3 69	15	12 1/2	7 74	22	14 1/2	13 84
9	10 1/2	4 16	16	3 1/2	3 72	24	3 1/2	5 41
9	12 1/2	. . .	16	4 1/2	4 10	24	4 1/2	6 13
10	3 1/2	2 65	16	5 1/2	4 48	24	5 1/2	6 85
10	4 1/2	2 90	16	6 1/2	4 86	24	6 1/2	7 57
10	5 1/2	3 15	16	8 1/2	6 04	24	8 1/2	9 30
10	6 1/2	3 51	16	10 1/2	7 15	24	10 1/2	11 21
10	8 1/2	3 98	16	12 1/2	8 26	24	12 1/2	13 12
10	10 1/2	4 62	17	3 1/2	3 88	24	14 1/2	15 00
10	12 1/2	5 26	17	4 1/2	4 31	24	16 1/2	18 00
11	3 1/2	2 84	17	5 1/2	4 74	24	18 1/2	. . .
11	4 1/2	3 07	17	6 1/2	5 17	26	4 1/2	7 00
11	5 1/2	3 30	17	8 1/2	6 35	26	5 1/2	7 64
11	6 1/2	3 53	17	10 1/2	7 53	26	6 1/2	8 28
11	8 1/2	4 28	17	12 1/2	8 71	26	8 1/2	10 15
11	10 1/2	5 03	18	3 1/2	4 01	26	10 1/2	12 36
11	12 1/2	5 78	18	4 1/2	4 44	26	12 1/2	14 47
12	3 1/2	2 98	18	5 1/2	4 87	26	14 1/2	16 68
12	4 1/2	3 24	18	6 1/2	5 30	28	4 1/2	7 79
12	5 1/2	3 50	18	8 1/2	6 65	28	5 1/2	. . .
12	6 1/2	3 76	18	10 1/2	7 92	28	6 1/2	9 65
12	8 1/2	4 60	18	12 1/2	9 19	28	8 1/2	11 88
12	10 1/2	5 45	19	3 1/2	4 19	28	10 1/2	14 51
12	12 1/2	6 30	19	4 1/2	5 03	28	12 1/2	17 14

IRON PULLEYS—Continued.

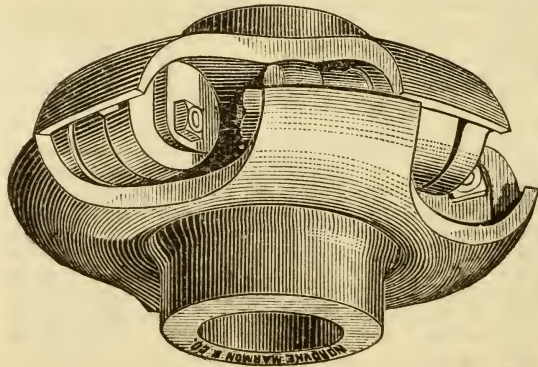
Diameter	Face . .	PRICE.	Diameter	Face . .	PRICE.	Diameter	Face . .	PRICE.
28	14 1/2	\$19 77	36	6 1/2	\$13 60	42	12 1/2	\$30 44
30	4 1/2	10 45	36	8 1/2	17 18	42	14 1/2	35 05
30	5 1/2	10 90	36	10 1/2	20 76	42	16 1/2	. . .
30	6 1/2	11 35	36	12 1/2	24 34	42	20 1/2	. . .
30	8 1/2	13 73	36	14 1/2	27 92	44	6 1/2	. . .
30	10 1/2	16 77	36	16 1/2	. . .	44	8 1/2	22 55
30	12 1/2	19 81	36	18 1/2	. . .	44	10 1/2	27 70
30	14 1/2	22 85	36	20 1/2	. . .	44	12 1/2	32 85
30	16 1/2	. . .	38	6 1/2	14 68	44	14 1/2	38 00
30	18 1/2	. . .	38	8 1/2	16 85	44	16 1/2	. . .
30	20 1/2	. . .	38	10 1/2	22 62	44	20 1/2	. . .
32	6 1/2	12 19	38	12 1/2	26 59	46	6 1/2	. . .
32	8 1/2	15 34	38	14 1/2	30 56	46	8 1/2	24 34
32	10 1/2	18 49	38	16 1/2	. . .	46	10 1/2	30 11
32	12 1/2	21 64	38	20 1/2	. . .	46	12 1/2	35 88
32	14 1/2	24 79	40	4 1/2	. . .	46	14 1/2	41 65
32	16 1/2	. . .	40	6 1/2	. . .	46	16 1/2	. . .
32	20 1/2	. . .	40	8 1/2	19 55	46	20 1/2	. . .
34	6 1/2	12 97	40	10 1/2	24 06	48	6 1/2	. . .
34	8 1/2	16 22	40	12 1/2	28 57	48	8 1/2	25 73
34	10 1/2	19 47	40	14 1/2	33 08	48	10 1/2	32 22
34	12 1/2	22 72	40	16 1/2	. . .	48	12 1/2	38 71
34	14 1/2	25 97	40	20 1/2	. . .	48	14 1/2	45 20
34	16 1/2	. . .	42	6 1/2	16 61	48	16 1/2	51 69
34	20 1/2	. . .	42	8 1/2	21 22	48	20 1/2	. . .
36	4 1/2	. . .	42	10 1/2	25 83	. . .	. . .	. . .

WOOD-RIM PULLEYS.

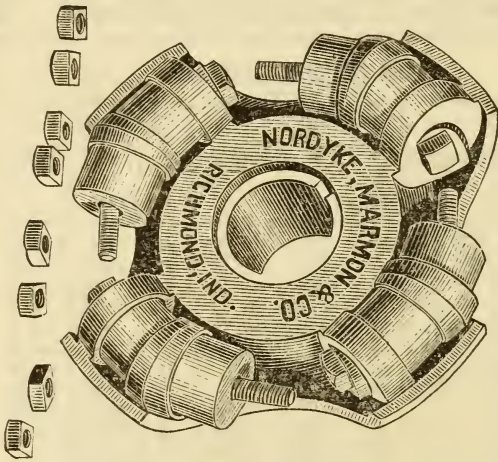
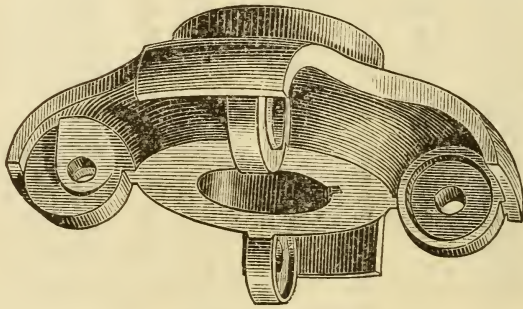
Turned, Painted, and Balanced, with Set-screw, or Key-seat.

Diameter	Face . .	PRICE.	Diameter	Face . .	PRICE.	Diameter	Face . .	PRICE.
38	5 1/2	\$14 04	44	8 1/2	\$20 24	52	12 1/2	\$39 42
38	8 1/2	16 66	44	12 1/2	28 26	56	8 1/2	38 25
38	12 1/2	22 74	46	5 1/2	18 50	56	12 1/2	44 60
40	5 1/2	15 10	46	8 1/2	21 43	60	8 1/2	42 30
40	8 1/2	17 86	46	12 1/2	30 44	60	12 1/2	48 70
40	12 1/2	24 74	48	5 1/2	19 62	66	8 1/2	46 40
42	5 1/2	16 00	48	8 1/2	22 61	66	12 1/2	52 10
42	8 1/2	19 05	48	12 1/2	32 52	72	8 1/2	51 60
42	12 1/2	26 08	52	8 1/2	29 50	72	12 1/2	56 80
44	5 1/2	17 30	. . .	. . .	. . .	. . .	. . .	. . .





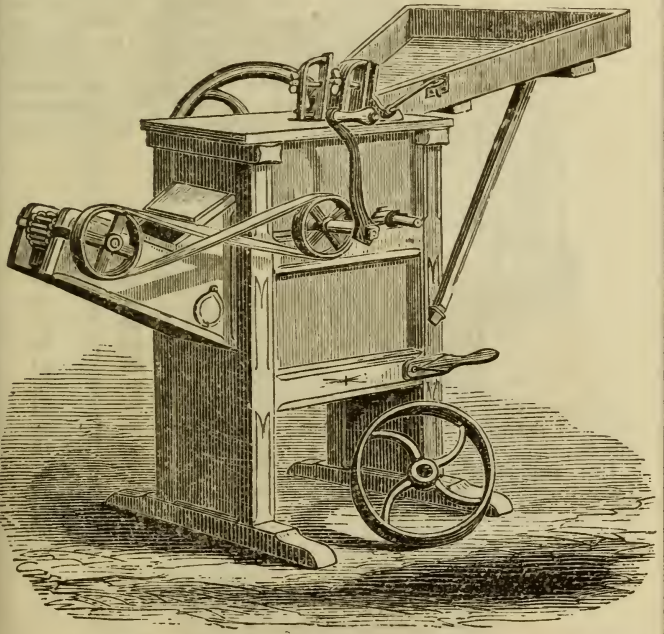
READY FOR USE.



TAKEN APART.

SPRING COUPLING. (SEE PAGE 32.)





POWER AND HAND SHELLERS. (SEE PAGE 14.)

**STANDARD LIST GENUINE OAK-TANNED LEATHER BELTING.**

Width in inches.	Price per foot.
1	\$0 06
1½	12
2	18
2½	24
3	30
3½	36
4	42
4½	48
5	54
5½	60
6	66
7	78
8	90
9	1 02
10	1 14
11	1 26
12	1 38
13	1 50
14	1 62
15	1 78

Subject to usual discount.  
 Light Double Belts add 50 per cent.  
 Cut and Tipped Lacings, Lace-Leather, and all sizes of Belt-Hooks on hand.

**RUBBER BELTING.**

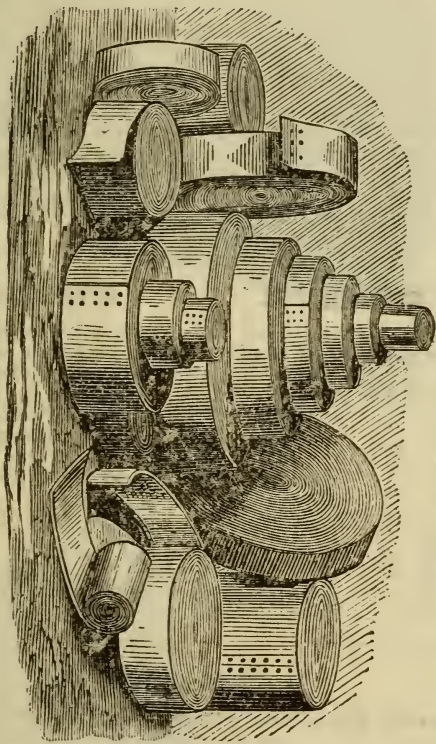
*With Smooth Metallic Rubber Surface.*

This is made of Cotton Duck weighing 2 lbs. per yard, woven expressly for the purpose, and is vulcanized between layers of a patent metallic alloy, by which process the stretch is entirely taken out, the surface is made perfectly smooth, and the substance is thoroughly and evenly vulcanized.

Width.	3-ply.	4-ply.
3 in.	\$0 26	\$0 31
4 in.	34	42
5 in.	43	52
6 in.	52	62
7 in.	60	73
8 in.	70	84
9 in.	80	95
10 in.	90	1 07
11 in.	1 00	1 18
12 in.	1 08	1 30
13 in.	1 18	1 42
14 in.	1 28	1 54
15 in.	1 38	1 66

**SOLID COTTON BELT—EXTRA QUALITY.**

Width.	3-ply.	4-ply.
3 inch.	15c. per ft.	.....
3½ inch.	18c. per ft.	.....
4 inch.	21c. per ft.	27c. per ft.
4½ inch.	24c. per ft.	30c. per ft.
5 inch.	30c. per ft.	33c. per ft.
6 inch.	36c. per ft.	39c. per ft.
7 inch.	.....	45c. per ft.
8 inch.	.....	52c. per ft.
9 inch.	.....	60c. per ft.
10 inch.	.....	75c. per ft.



**BELTING.**

ALL KINDS, OF THE MOST DURABLE QUALITY.

**CANVAS ELEVATOR BELTING.**

3-PLY COTTON DUCK.

4 inches wide, per foot . . . . .	20C.
4½ " " " " . . . . .	22C.
5 " " " " . . . . .	24C.
6 " " " " . . . . .	28C.

**ELEVATOR HEAD AND FOOT.**

Ready to attach the Trunking and put in Belts and Cups, with Shafts and Turned Pulleys which are 16 inches diameter and 5½-inch face (an outside Receiving-Pulley or Gear-Wheel is also furnished), price . . . . . \$20  
 With 6½-inch Face-Pulleys for 5½ or 6-inch Belt, price 22

**ELEVATOR CUPS.**

*Made of Extra Heavy Tin, Soldered Iron Band.*

3½x3 inches . . . . .	16c.
4 x3 " . . . . .	18c.
4½x3 " . . . . .	19c.
5 x3 " . . . . .	20c.
5 x4 " . . . . .	22c.
5½x4 " . . . . .	24c.
6 x4 " . . . . .	26c.
6 x4½ " . . . . .	32c.
6½x4½ " . . . . .	33c.
7 x4½ " . . . . .	35c.
8 x4½ " . . . . .	38c.

**WOVEN STEEL WIRE.**

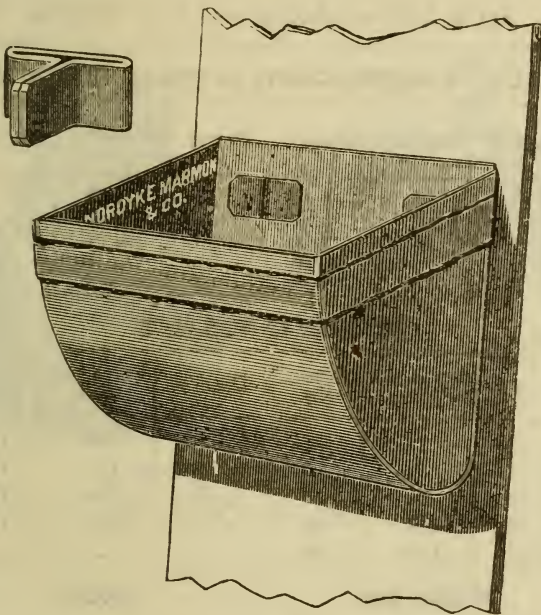
4 to 16 Meshes to the inch, per sq. ft. . . . .	12c.
16 to 24 Meshes to the inch, per sq. ft. . . . .	18c.
24 to 30 Meshes to the inch, per sq. ft. . . . .	22c.
Duster Wire, per sq. ft. . . . .	70c. to \$1.20
Keep most sizes on hand.	
<hr/>	
Copper Clasp Fastenings, per 100 . . . . .	\$1

**GEAR CUTTING.**

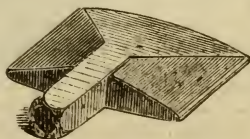
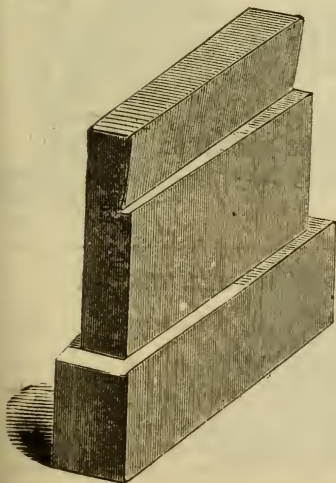
*Accurately Spaced and Properly Shaped Teeth, either Bevel or Spur Iron Gear.*

4 inch face, per cog . . . . .	40c.
5 " " " " . . . . .	45c.
6 " " " " . . . . .	50c.
7 " " " " . . . . .	55c.
8 " " " " . . . . .	60c.
9 " " " " . . . . .	65c.
10 " " " " . . . . .	70c.

For both sides, 50 per cent. additional. Above does not include turning or any fitting on the gear other than that required to space and dress.



PATENTED JULY 7, 1874.





30 Price List of Richmond Mill Works.

**PRICE LIST OF GROOVED PULLEYS, OR WHEELS FOR WIRE ROPE.**

Diam'r.	PRICE.	Diam'r.	PRICE.	Diam'r.	PRICE.
2 ft.	\$8	7 ft.	\$95	12 ft.	. . .
3 ft.	25	8 ft.	125	13 ft.	. . .
4 ft.	30	9 ft.	. . .	14 ft.	. . .
5 ft.	50	10 ft.	. . .	15 ft.	. . .
6 ft.	70	11 ft.	. . .	. . .	. . .

**PRICE LIST OF WIRE ROPES.**

Diam'r.	Price per foot.	Trade No.	Diam'r.	Price per foot.	Trade No.
$\frac{9}{32}$ in.	7c.	24	$\frac{5}{8}$ in.	14c.	19
$\frac{5}{16}$ in.	8c.	23	$\frac{11}{16}$ in.	17c.	18
$\frac{3}{8}$ in.	9c.	22	$\frac{3}{4}$ in.	20c.	17
$\frac{7}{16}$ in.	10c.	21	$\frac{7}{8}$ in.	25c.	16
$\frac{1}{2}$ in.	12c.	20	.....	.....	.....

**WOODEN COGS.**

*Shanked to Order for Spur or Bevel Wheels.*

4 inch face, per cog . . .	8c.
5 " " " . . .	10c.
6 " " " . . .	12c.
7 " " " . . .	14c.
8 " " " . . .	16c.
9 " " " . . .	18c.

**COGGING.**

*Spur or Bevel Wheels.*

4 inch face, per cog . . .	30c.
5 " " " . . .	35c.
6 " " " . . .	40c.
7 " " " . . .	45c.
8 " " " . . .	50c.
9 " " " . . .	55c.

**SELF-TRAM-DRIVING MILL-IRONS.**

8½ inches diameter, including Driver . . . . .	\$20
10 " " " " " . . . . .	25
12 " " " " " . . . . .	30

**MARMON'S SELF-ADJUSTING MILL-IRONS.**

Diam. of Eye.	8½ in.	10 in.	12 in.
Cone Bail	\$5 00	\$5 50	\$6 00
St'l Driv.	4 00	4 50	5 00
Adj. Ring	1 00	1 50	2 00
<b>Total .</b>	<b>\$10 00</b>	<b>\$11 50</b>	<b>\$13 00</b>

**MILL SPINDLES.**

5 foot, 3 inch iron . . .	\$20
6 " 3¼ " " . . .	25
7 " 3½ " " . . .	31
8 " 4 " " . . .	42

Of plain wrought iron, with inserted steel points. Length of spindles is from face of bed-stone to top of wood bridge-tree.



FIG 1

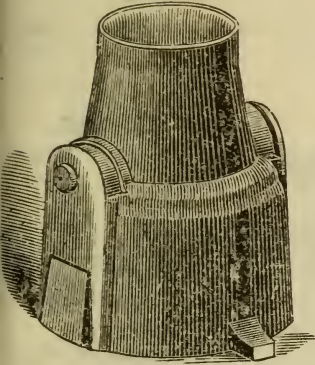
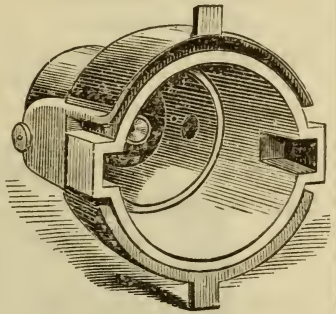
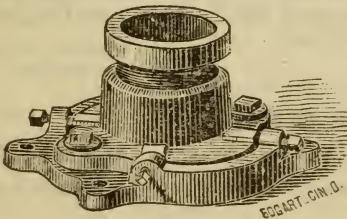
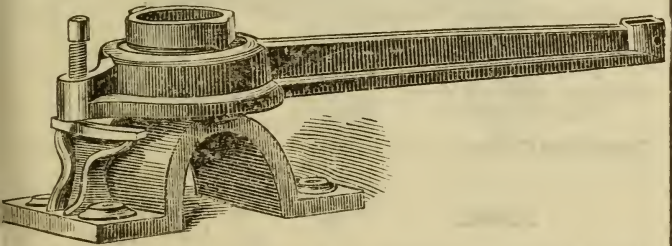


FIG 2



SELF-TRAM-DRIVING IRONS.

PATENTED SEPTEMBER 4, 1866, AND AUGUST 1, 1871.



**ROUND MILL-BUSHES.**

*Three Followers.*

Casting 8½ inches diam. \$2 00  
 " 10 " " 2 50

*With Wood Followers.*

8½ inches diameter . . \$4 00  
 10 to 12 " " . . 5 00

Square Mill-Bushes, same price.

**PINION JACKS.**

*For Raising Pinions Out of Gear.*

With Hand-wheel, Screw, Cross-bar, Uprights, and Ring under Pinion . . . . . \$16

With Hand-wheel, Ratchet, Shaft, Hangers, Chains, and Hooks . 10

**MILL-STEPS, OR TRAM-POTS.**

*Adjustable with Set-screw.*

For 30 and 36 in. Stones. \$14 00  
 " 42 to 54 in. " 16 50

Arched and Tunnel Steps . . . . . 18 50

Copper-lined Tram-pot, price . \$20

**DAMSELS.**

Three Beaters, for 3 and 3½ foot Stones . . \$3 00

Four Beaters, for 4 and 4½ foot Stones . . 3 50

Cast-iron . . . . . 1 50

**MILL-CURBS, OR HOOPS.**

*Made of Pine Staves.*

For 36 inch Stone . . . . \$20  
 " 42 " " . . . . 22  
 " 48 " " . . . . 25  
 " 54 " " . . . . 29

**OIL-BUSH.**

8½ inches diameter . . \$20  
 10 " " . . 22

**MARMON'S MILL-BUSH.**

8½ inches diam. . . \$9 00  
 10 to 12 " " . . 10 00

**SPRING COUPLING.**

*To Overcome Back-lash.*

For Stone Pinions, including attachm'ts . \$35  
 For Engine-shafts. \$35 to 120

**LIGHTER-LEVERS.**

*With Open Centers.*

For 30 inch Stones . . \$3 00  
 " 36 " " . . 3 50  
 " 42 " " . . 4 00  
 " 48 " " . . 4 50

**LIGHTER-SCREWS.**

With Iron Hand-wheel and Cap, plain . . \$3 50

With Iron Hand-wheel and Cap, turned . 5 00

With Iron Hand-wheel and Cap, nickel-plated . . . . . 8 00

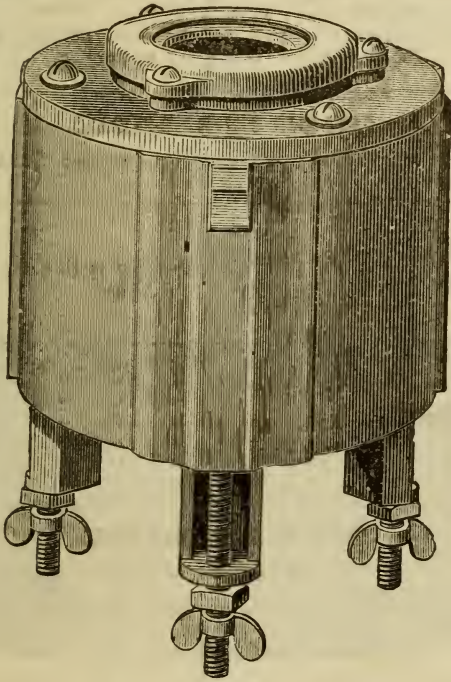
With Brass Hand-wh'l and Cap, polished . 13 00

Washer furnished with every Screw.

**HOPPERS AND FRAMES.**

For 36 inch Stone . . \$5 00  
 " 42 " " . . 5 50  
 " 48 " " . . 6 00

If Shoe is wanted, add 2 00



MARMCN'S MILL-BUSH.

SELF-OILING, AND ADJUSTABLE FROM BELOW BED-STONE.

34 Price List of Richmond Mill Works.

**SILENT FEEDERS.**

Bracket Rig, without Hopper . . . . .	\$7 00
Bracket Rig, with Iron or Tin Hopper . . .	9 00
Bracket Rig, with Brass Hopper and Nickel-plated Feed-wheel .	12 50
Tripod, with Glass Globe	20 00
“ “ Brass Hopper	20 00

**BAG TRUCKS.**

Price, each . . . . . \$5 00

**CONVEYOR FLIGHTS.**

*Of Hard, Well-seasoned Wood.*

Per 100, 2<sup>3</sup>/<sub>4</sub> x 2<sup>3</sup>/<sub>4</sub> and under . . . . . \$1 25

**CAST-IRON CONVEYOR-SPIRALS.**

Those marked (\*) are for eight square Shafts. The others are for round Shafts.

Number of Pattern .	Diam'r of Shaft . .	Diameter of Screw outside .	Pitch of Screw . .	Right-hand is like an Auger.	Price per ft.
1	2 <sup>1</sup> / <sub>4</sub>	6 <sup>3</sup> / <sub>4</sub>	4 <sup>1</sup> / <sub>2</sub>	Right and Left.	\$0 30
2	3 <sup>1</sup> / <sub>2</sub>	7 <sup>1</sup> / <sub>2</sub>	8	“ “ “	30
3	4	9	7	“ “ “	40
4*	5 <sup>1</sup> / <sub>2</sub>	10	11	“ “ “	40
5	5	10	8	“ “ “	50
6*	7	13	8	“ “ “	70
7	6	12	9	“ “ “	65

**WOOD OR IRON BOLT-REELS.**

*Taken Apart and Boxed.*

18 feet and over, for 30 or 32 inch Reels, per foot length of Reel . . . . .	\$2 40
36 and 40 inch Reels, per foot . . . . .	2 60

**BUCKWHEAT BOLTS.**

*Without Elevator.*

Inclosed in tight chest, with Conveyor, cloth to fit Reel, etc., complete. Will bolt 10 to 15 bushels per hour.

8 feet long, price . . . . .	\$55
10 “ “ “ . . . . .	75

**CORN-MEAL BOLTS.**

*Without Elevator.*

Inclosed in tight chest, with Conveyor, cloth or iron wire, etc., complete. Will bolt 12 to 20 bu. per hour.

5 <sup>1</sup> / <sub>2</sub> feet long, price . . . . .	\$45
7 “ “ “ . . . . .	60

Fifteen per cent. added if brass-woven wire is used.



GLASS GLOBE TRIPOD FEEDER AND MILL-CURB.



**CONVEYORS IN BOX.**

10x10 inches inside, 8 feet and over in length, with  
 Wood Flights, per foot . . . . . \$1 75  
 With Cast Spiral Flights . . . . . 2 00  
 12x12 inches, with Wood Flights . . . . . 2 00  
 " " " Cast Spiral Flights . . . . . 2 25

**PROOF-STAFFS.**

*Warranted True, Boxed.*

3½ feet long . . . . . \$12  
 4 " " . . . . . 14  
 4½ " " . . . . . 16

**MILL-PICKS.**

Cracking, each . . . . \$1 50  
 Furrowing, " . . . . 2 00  
 All warranted and with eyes.  
 For Tempering and Draw-  
 ing Picks, each . . . . 30c.  
 For Drawing from Center  
 and Tempering . . . . 40c.  
 Patent Adj. Handle, each . \$1 00

**RED-STAFFS.**

*Made of Pieces and Boxed.*

For 30 inch Burr . . \$5 00  
 " 3 foot " . . 6 00  
 " 3½ " " . . 7 00  
 " 4 " " . . 8 00

**HOISTING-SCREWS.**

*With Wrench, Bails, and Pins.*

For 3 foot Burr . . . \$11  
 " 3½ " " . . . 12  
 " 4 " " . . . 14  
 " 4½ " " . . . 16

**WAY'S ECCENTRIC MILL-PICKS.**

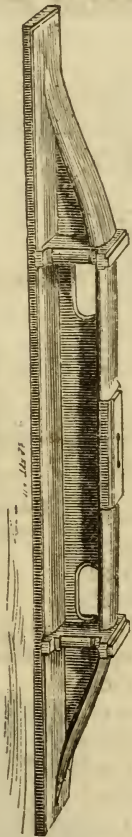
*Best and cheapest in use.* Holds the Blades firm as a vise, allowing them to be removed and replaced in an instant, without the use of tools. Five inches of temper in each Blade.

No. 1. 1¼ lb. Pick, with six Blades . . . . . \$5 00  
 No. 2. 1¾ " " " " " . . . . . 5 50  
 No. 3. 2½ " " " " " . . . . . 6 50  
 Extra Blades, per doz.—No. 1 . . . . . 4 00  
 " " " No. 2 . . . . . 5 00  
 " " " No. 3 . . . . . 6 00

**CUMMINGS' MILL-PICK.**

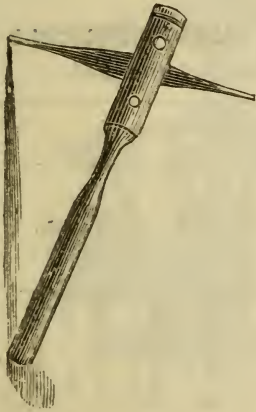
With 10 Blades . . . . . \$10 00  
 Extra Blades, each . . . . . 40

Mansfield's Mill-Stone Dressing-Machine, complete . . . \$65 00

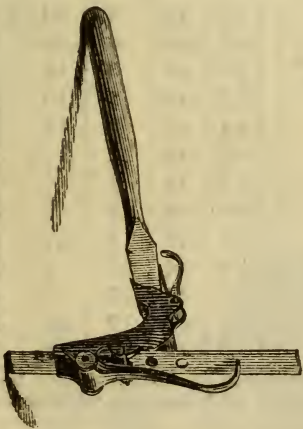


**PROOF-STAFFS.**

*Warranted True.*



**PATENT ADJUSTABLE HANDLE.**

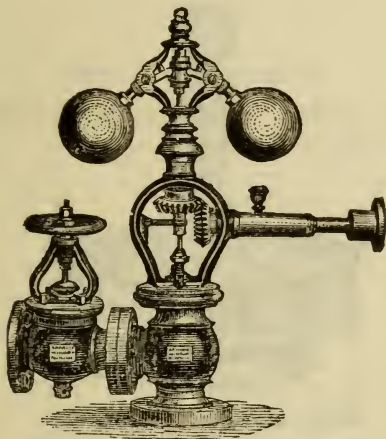


**WAY'S ECCENTRIC PICK.**

STATIONARY ENGINES AND BOILERS FOR FLOURING MILLS.

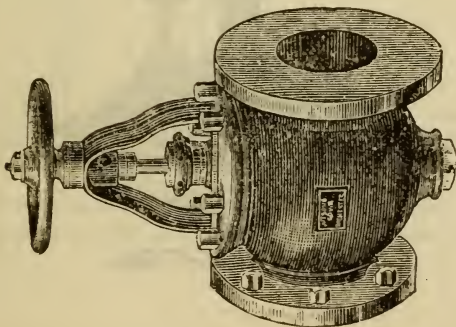
*On Heavy Improved Iron Bed.*

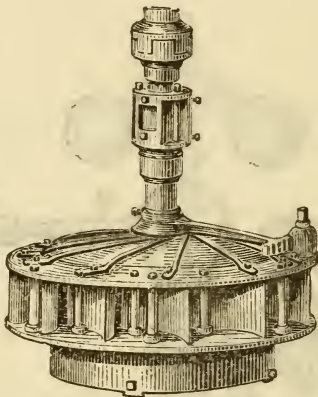
HORSE POWER . . . . .	SIZE OF CYLINDER.		DIMENSIONS OF BOILERS.				Price of Engine and Boiler, with usual Fixtures and Judson Governor . . . . .	
	Length Stroke, in. . . . .	Diameter, in. . . . .	KIND OF BOILER.	SIZE.		FLUES.		
				Length, ft. . . . .	Diameter, in. . . . .	Number . . . . .		Diameter, in. . . . .
20	9	16	} Double Re- turn Flues. }	16	42	2	14	\$1,750
25	10	16		18	42	2	14	1,900
30	10	20		20	42	2	14	2,000
35	12	20		22	42	2	14	2,150
40	12	24		24	42	2	14	2,300
25	10	16	} Five Return Flues . . . }	16	44	5	<sup>2</sup> / <sub>9</sub> <sup>3</sup> / <sub>10</sub>	2,050
30	10	20		18	44	5	"	2,200
35	12	20		20	44	5	"	2,400
40	12	24		22	48	5	<sup>2</sup> / <sub>10</sub> <sup>3</sup> / <sub>11</sub>	2,550
25	10	16	} Tubular . . }	12	44	32	3	2,000
30	10	20		12	44	32	3	2,050
35	12	20		14	44	32	3	2,250
40	12	24		16	48	36	3	2,400
55	14	24	} Prices of these sizes of Engines given on appli- cation, varying with amount of boiler-room.					
70	16	32						



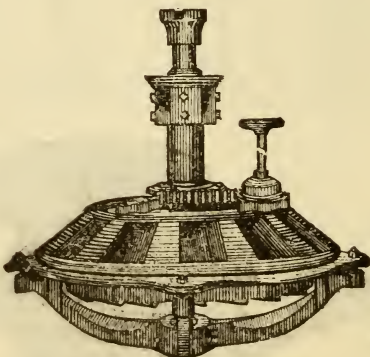
JUDSON'S PATENT IMPROVED STEAM GOVERNOR.

Size.	Black.	Finished.	Extra for Lever.	Extra for Stop-valve.
1½	\$34 00	\$38 00	\$2 50	\$8 50
2	41 00	46 00	2 75	11 50
2¼	47 00	54 00	3 25	16 00
2½	50 00	57 00	3 50	17 00
2¾	55 00	62 00	3 75	19 00
3	62 00	70 00	4 25	22 00
3½	71 00	80 00	4 50	27 00
4	81 00	92 00	5 00	32 00





JAMES LEFFEL WATER-WHEEL.



HOUSTON WATER-WHEEL.

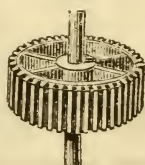
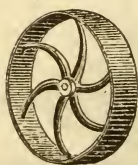
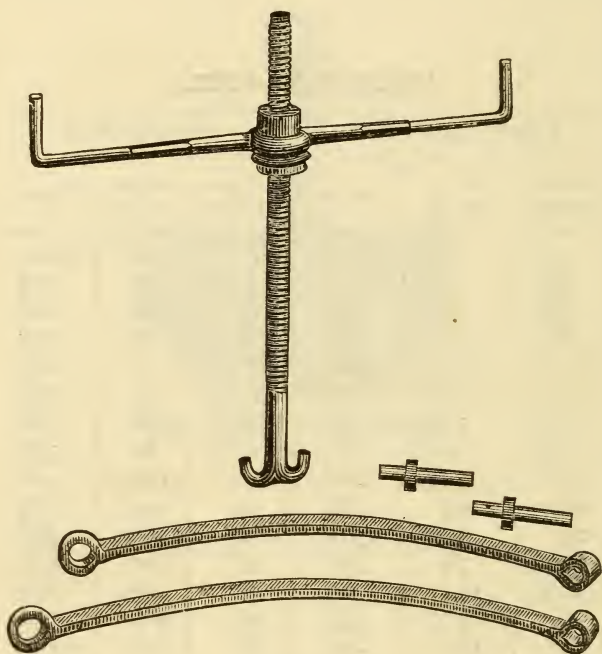


## TURBINE WATER-WHEELS.

JAMES LEFFEL'S.			HOUSTON'S.		
Size, inches.	Vent, sq. in.	PRICE.	Size, inches.	Vent, sq. in.	PRICE.
5 $\frac{3}{4}$	3 $\frac{3}{4}$	\$226	10	10	\$150
6 $\frac{5}{8}$	4 $\frac{9}{10}$	234	12 $\frac{1}{2}$	15	175
7 $\frac{5}{8}$	6 $\frac{1}{2}$	242	15	22	200
8 $\frac{3}{4}$	8 $\frac{3}{5}$	251	17 $\frac{1}{2}$	30	225
10	11 $\frac{1}{4}$	260	20	40	250
11 $\frac{1}{2}$	14 $\frac{2}{3}$	270	22 $\frac{1}{2}$	50	275
13 $\frac{1}{4}$	19 $\frac{3}{4}$	280	25	60	300
15 $\frac{1}{4}$	26 $\frac{1}{6}$	253	27 $\frac{1}{2}$	80	350
17 $\frac{1}{2}$	34 $\frac{1}{2}$	264	30	105	400
20	45	280	35	145	475
23	59 $\frac{1}{2}$	310	40	200	550
26 $\frac{1}{2}$	79	342	45	260	650
30 $\frac{1}{2}$	104	385	50	320	775
35	137	437	55	400	900
40	180	490	60	500	1,100
44	217	547	65	600	1,300
48	259	625			
52	338	803			
56	441	982			
61	518	1,150			
66	624	1,303			
74	769	1,690			
84	991	2,242			
96	1,295	2,840			

See description-book of Richmond Mill Works for data concerning Water-powers, Plans, and Attachments.

*We are prepared to furnish all other first-class  
Wheels, and allow our customers to select.*



DESCRIPTIVE BOOK of over 100 pages, with Engravings and Plans, size 8vo, sent, postage prepaid, for 35c.

# MILL GEARING.

---

*Neatness of Design,*

*Excellence of Proportion,*

*Strength without Waste.*

---

IN ORDERING to fit a certain shaft, send a stiff wire, pointed at the ends, indicating the exact diameter.

DIAMETERS of all the wheels given here are measured at pitch-lines, and given in inches and hundredths.

BEVEL GEAR work together in pairs, as indicated by braces in the margin, thus: {

## MILLWRIGHTS, MILL-OWNERS, AND OTHERS

intending to build mills of any kind, will find it profitable to carefully examine our list.

Having a large force of pattern-makers constantly at work on new gearing, parties will remember, should they not find here what they want, that we can supply it from those made since the issue of this list; or, if an exceptional case, will procure it or make the pattern of the size and proportion required.

We have various styles of Couplings, Gudgeons, Pillow-blocks, Hangers, etc.

PULLEYS (*see list on pages 22, 23, and 30*).—Of late years we have produced a stock of desirable Gearing, which has no superior, and is adapted to the special needs of flour-mills.

OUR GEAR-CUTTING ENGINE, for Bevel and Spur Wheels of any size or face, is not surpassed by any for accuracy and efficiency.

## SPUR-CORE-WHEELS.

Pat'n, No.	Teeth, No.	Face, inches.	Pitch, inches.	Diam., inches.	Depth of Eye, in.	Weight, lbs.
1	96	6	1 $\frac{3}{4}$	53.76	9 $\frac{1}{4}$	
2	72	6	1 $\frac{3}{4}$	40.32	8 $\frac{3}{4}$	
3	84	6	1 $\frac{3}{4}$	47.04	9	
4	60	6	1 $\frac{3}{4}$	36.60	8 $\frac{1}{8}$	
5	78	6	1 $\frac{3}{4}$	43.68	8 $\frac{3}{4}$	
6	55	6	1 $\frac{3}{4}$	30.80	8 $\frac{1}{8}$	
7	40	6	1 $\frac{3}{4}$	22.40	8 $\frac{1}{8}$	
8	66	6	1 $\frac{3}{4}$	36.96	8 $\frac{1}{4}$	
9	50	6	1 $\frac{3}{4}$	28	8 $\frac{1}{8}$	
10	90	6	1 $\frac{3}{4}$	50.40	9	
11	36	6	1 $\frac{3}{4}$	20.16	8 $\frac{1}{8}$	
12	104	6	1 $\frac{3}{4}$	58.24	9 $\frac{3}{4}$	
13	45	6	1 $\frac{3}{4}$	25.20	8 $\frac{1}{8}$	
14	120	6	1 $\frac{3}{4}$	67.20	10 $\frac{3}{4}$	
15	112	6	1 $\frac{3}{4}$	62.72	10 $\frac{1}{4}$	



## STONE PINIONS.

Pat'n, No.	Teeth, No.	Face, inches.	Pitch, inches.	Diam., inches.	Weight with Sleeve, lbs.
1	38	7 $\frac{1}{8}$	1 $\frac{3}{4}$	21.28	
2	32	7 $\frac{1}{8}$	1 $\frac{3}{4}$	17.92	
3	34	7 $\frac{1}{8}$	1 $\frac{3}{4}$	19.04	
4	30	7 $\frac{1}{8}$	1 $\frac{3}{4}$	16.80	
5	43	7 $\frac{1}{8}$	1 $\frac{3}{4}$	24.08	
6	28	7 $\frac{1}{8}$	1 $\frac{3}{4}$	15.68	
7	25	7 $\frac{1}{8}$	1 $\frac{3}{4}$	14	
8	49	7 $\frac{1}{8}$	1 $\frac{3}{4}$	27.44	
9	22	7 $\frac{1}{8}$	1 $\frac{3}{4}$	12.32	
10	33	7 $\frac{1}{8}$	1 $\frac{3}{4}$	18.48	
11	31	7 $\frac{1}{8}$	1 $\frac{3}{4}$	17.36	
12	36	7 $\frac{1}{8}$	1 $\frac{3}{4}$	20.16	
13	29	7 $\frac{1}{8}$	1 $\frac{3}{4}$	16.24	
14	35	7 $\frac{1}{8}$	1 $\frac{3}{4}$	19.60	
15	27	7 $\frac{1}{8}$	1 $\frac{3}{4}$	15.12	
16	40	7 $\frac{1}{8}$	1 $\frac{3}{4}$	22.40	
17	46	7 $\frac{1}{8}$	1 $\frac{3}{4}$	25.76	
18	53	7 $\frac{1}{8}$	1 $\frac{3}{4}$	29.68	

BEVEL CORE-WHEELS.

Pattern, No.	Teeth, No.	Face, in.	Pitch, in.	Diameter, in.	Backing, in.	Depth of Eye, in.	Weight, lbs.
1 {	40	3½	1¼	16	2¾	4⅞	} Mortise Wheel. Pinion.
	25	3½	1¼	10	1⅝	4½	
2 {	49	5	1½	23.52	3	5⅞	
	30	5	1½	14.40	1⅜	5½	
3 {	42	5	1½	20.16	2⅞	5⅞	
	33	5	1½	15.84	2⅛	5⅞	
4 {	43	6	1⅝	22.36	⅞	5⅞	
	47	6	1⅝	24.44	2⅛	6¼	
5 {	64	7⅛	2	40.96	3⅞	7⅞	
	40	7¼	2	25.60	2⅞	8¼	
6 {	79	6	1¾	44.24	5½	7½	
	26	6⅜	1¾	14.56	1⅛	7	
7 {	79	6	1¾	44.24	5⅞	7½	
	32	6⅛	1¾	17.92	1⅜	7½	
8 {	79	6⅛	1¾	44.24	4⅝	7½	
	39	6¼	1¾	21.84	2⅞	7½	
9 {	50	7	2	32	2¾	8	
	49	7⅛	2	31.36	3½	8⅝	
10 {	57	6	1¾	31.92	4⅛	7	
	28	6⅛	1¾	15.68	1½	7	
11 {	57	6	1¾	31.92	3⅝	7	
	35	6⅛	1¾	19.60	2⅝	7½	
12 {	57	6	1¾	31.92	3⅛	7	
	42	6⅛	1¾	23.52	2¾	7½	

## BEVEL CORE-WHEELS—Continued.

Pattern, No.	Teeth, No.	Face, in.	Pitch, in.	Diameter, in.	Backing, in.	Depth of Eye, in.	Weight, lbs.
13	68	8	2¼	48.96	4¾	9	
	45	8⅛	2¼	32.40	3	9½	
14	46	6	1¾	25.76	3½	6½	
	30	6⅛	1¾	16.80	2	7	
15	46	6	1¾	25.76	3	6½	
	37	6⅛	1¾	20.72	2⅞	7½	
16	46	6	1¾	25.76	2½	6½	
	45	6⅛	1¾	25.20	3¾	7½	
17	48	5	1½	23.04	2⅝	6	
	47	5⅛	1½	22.56	2½	6	
18	42	4	1⅜	18.48	..	5	
	41	4⅛	1⅜	18.08	..	5	
19	44	4	1⅜	19.36	3	5	
	29	4⅛	1⅜	12.76	1⅝	5	
20	57	7	2	36.48	3½	8	
	43	7⅛	2	27.52	2⅞	8¼	
21	55	4	1⅜	24.20	..	5	
	27	4⅛	1⅜	11.88	..	5	
22	63	4	1⅜	27.72	..	5	
	25	4⅛	1⅜	11	..	5	
23	70	4	1⅜	30.80	..	5	
	23	4⅛	1⅜	10.12	..	5	



## MITER WHEELS.

Pattern, No.	Teeth, No.	Face, in.	Pitch, in.	Diameter, in.	Backing, in.	Depth of Eye, in.	Weight, lbs.
A	30	$1\frac{1}{4}$	$1\frac{3}{16}$	7.50	$\frac{3}{4}$	$1\frac{3}{8}$	
B	36	$2\frac{1}{16}$	$\frac{7}{8}$	9.60	$\frac{5}{8}$	$2\frac{1}{4}$	
C	38	$2\frac{1}{2}$	1	12	$2\frac{1}{8}$	$3\frac{3}{4}$	
D	60	3	1	19.10	$\frac{3}{4}$	$3\frac{1}{2}$	
E	50	1	$2\frac{1}{2}$	15.92	$1\frac{3}{4}$	3	
F	54	1	$2\frac{1}{4}$	17.19	$2\frac{1}{8}$	$3\frac{1}{4}$	



BEVEL WHEELS.

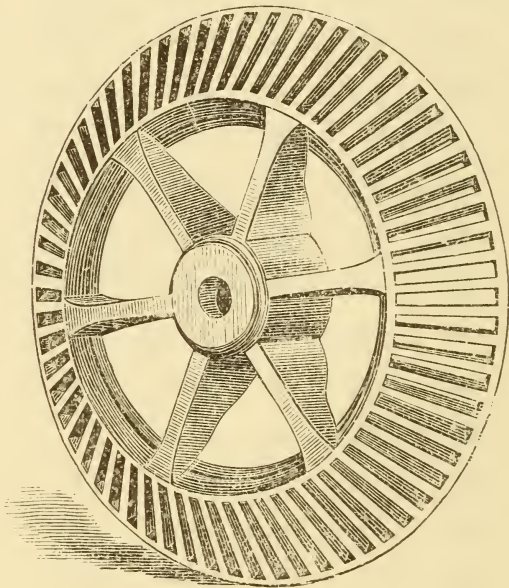
Pattern, No.	Teeth, No.	Face, in.	Pitch, in.	Diameter, in.	Backing, in.	Depth of Eye, in.	Weight, lbs.
A {	63	3	$\frac{3}{4}$	14.50	. .	. .	
	25	3	$\frac{3}{4}$	5.75	. .	. .	
B {	67	$3\frac{1}{4}$	$\frac{3}{4}$	15.75	. .	. .	
	35	$3\frac{1}{4}$	$\frac{3}{4}$	8.25	. .	. .	
C {	65	3	1	19.25	$2\frac{3}{4}$	$3\frac{1}{2}$	
	42	3	1	13.44	$\frac{7}{8}$	$3\frac{1}{4}$	
D {	43	2	1	13.76	$2\frac{1}{4}$	$2\frac{3}{4}$	
	28	2	1	8.93	$1\frac{1}{4}$	$1\frac{1}{2}$	
E {	41	$2\frac{1}{8}$	1	13.12	$1\frac{1}{16}$	3	
	35	$2\frac{1}{8}$	1	11.20	$1\frac{3}{8}$	$2\frac{7}{8}$	
F {	44	$2\frac{5}{8}$	$1\frac{1}{8}$	15.84	$2\frac{1}{4}$	$3\frac{3}{4}$	
	25	$2\frac{5}{8}$	$1\frac{1}{8}$	9	$1\frac{5}{16}$	$3\frac{3}{4}$	
G {	40	$2\frac{7}{8}$	$1\frac{1}{8}$	14.40	$2\frac{3}{4}$	$3\frac{3}{4}$	
	34	$2\frac{7}{8}$	$1\frac{1}{8}$	12.24	$1\frac{3}{4}$	$3\frac{3}{4}$	
H {	50	$2\frac{1}{2}$	1	16	$2\frac{3}{16}$	$3\frac{1}{4}$	
	30	$2\frac{1}{2}$	1	9.60	$1\frac{1}{8}$	$3\frac{1}{4}$	
J {	46	$2\frac{1}{4}$	1	14.72	$2\frac{3}{8}$	$3\frac{3}{8}$	
	32	$2\frac{1}{4}$	1	12.24	$1\frac{1}{2}$	$3\frac{1}{4}$	
K {	46	3	$1\frac{1}{8}$	16.56	$2\frac{3}{8}$	$4\frac{5}{8}$	
	45	3	$1\frac{1}{8}$	16.20	$2\frac{3}{8}$	$4\frac{3}{8}$	
L {	65	$2\frac{1}{2}$	1	21.12	$2\frac{1}{4}$	$3\frac{1}{4}$	
	26	$2\frac{1}{2}$	1	8.32	$\frac{7}{8}$	$3\frac{1}{4}$	
M {	48	3	$1\frac{1}{8}$	17.28	$2\frac{1}{16}$	$3\frac{1}{8}$	
	16	3	$1\frac{1}{8}$	5.76	$\frac{5}{16}$	3	

## BEVEL WHEELS—Continued.

Pattern, No.	Teeth, No.	Face, in.	Pitch, in.	Diameter, in.	Backing, in.	Depth of Eye, in.	Weight, lbs.
N {	90	2½	1	28.80	3¼	4	
	25	2½	1	8	7⁄8	3¾	
O {	60	2½	1	21.60	3 <sup>5</sup> / <sub>16</sub>	3½	
	15	2½	1	5.40	<sup>11</sup> / <sub>16</sub>	3¾	
P {	56	2¾	1	17.92	2 <sup>1</sup> / <sub>8</sub>	2¼	
	19	2¾	1	6.08	<sup>5</sup> / <sub>16</sub>	2¼	
R {	57	2½	1	18.24	2½	3¼	
	28	2½	1	8.96	1	3¼	

## SPUR WHEELS.

Pat'n, No.	Teeth, No.	Face, inches.	Pitch, inches.	Diam., inches.	Depth of Eye, in.	Weight, lbs.
A	44	$1\frac{1}{4}$	$\frac{1}{2}$	7.04	$1\frac{1}{4}$	
B	74	$1\frac{1}{4}$	$\frac{1}{2}$	11.84	$1\frac{3}{8}$	
C	114	$1\frac{1}{4}$	$\frac{1}{2}$	18.24	$1\frac{7}{8}$	
D	131	$1\frac{1}{4}$	$\frac{1}{2}$	20.96	$2\frac{1}{2}$	
E	13	2	$\frac{3}{4}$	3.12	2	
F	45	2	$\frac{3}{4}$	10.80	2	
G	59	2	$\frac{3}{4}$	14.16	2	
H	85	$1\frac{3}{4}$	$\frac{3}{4}$	20.40	$3\frac{5}{8}$	
J	110	$1\frac{3}{4}$	$\frac{3}{4}$	25.40	$3\frac{5}{8}$	
K	142	$1\frac{3}{4}$	$\frac{3}{4}$	34.08	$3\frac{3}{4}$	
L	168	$1\frac{3}{4}$	$\frac{3}{4}$	40.32	$3\frac{3}{4}$	
M	100	$1\frac{3}{4}$	$\frac{3}{4}$	24	$3\frac{5}{8}$	
N	76	$1\frac{3}{4}$	$\frac{3}{4}$	18.24	$3\frac{5}{8}$	
O	51	2	$\frac{3}{4}$	12.24	$2\frac{1}{2}$	
P	21	2	$\frac{3}{4}$	5.04	$2\frac{1}{2}$	
R	64	$2\frac{1}{2}$	1	20.48	3	
S	13	$2\frac{1}{2}$	1	4.16	$2\frac{1}{2}$	



MILL GEARING.

ADAPTED TO THE WANTS OF FLOURING MILLS.

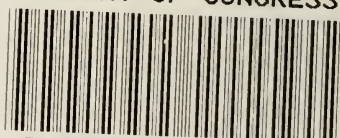








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