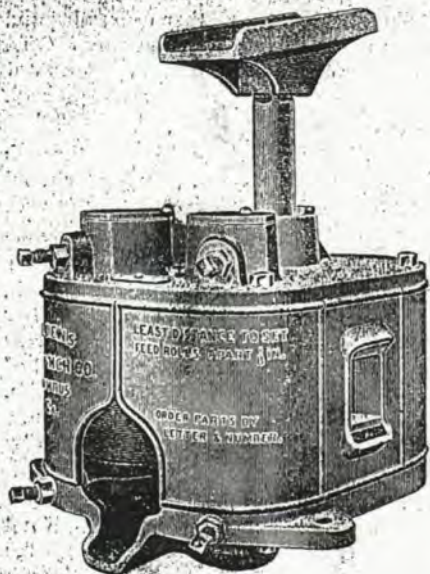


CATALOGUE No. 35.



**GOLDEN  
CANE MILLS,  
EVAPORATORS**

AND

**KETTLES.**

MANUFACTURED BY

**GOLDENS' FOUNDRY AND MACHINE CO.,  
COLUMBUS, GA., U. S. A.**

# Goldens' NEW MODEL Two and Three-Roller Vertical Cane Mills. 2

(PATENTED)

I N presenting Goldens' NEW MODEL Two and Three-Roller Vertical Cane Mills to cane syrup makers, we would call attention to the following facts upon which we base our claims to the best mill on the market to-day:

Having had many years' experience in studying the needs of cane syrup makers, coupled with the best equipped and most up-to-date plant in the South, we are confident that our NEW MODEL MILLS are the strongest, most mechanical and modern mills on the market. They are new mills throughout; all new patterns and new ideas, except where we have embodied points of proven worth in our old mill. We have machine molded gears, rolls, etc., to bring the mill to the point aimed at: "The best mill on the market."

Not only is the mill mechanically correct, but we have thoroughly tested its workings in the cane field in connection with our strongest competitors' mill, and proven that practically, as well as in theory, we have the best mill made. To those who look only for the cheapest mill, there may be cane mill manufacturers who can furnish them with a cheaper mill, but "for value received," Goldens' NEW MODEL is the cheapest in the end.

## TOP OF MILL:

Of plain, strong construction, with adjustable babbitted bearings, with cavities which can be filled with waste, so as to prevent waste of oil and keep bearings well lubricated.

## COMBINED UPRIGHT AND CASINGS

Are made in four pieces, with broad bearings at the top and bottom. The mill is tied rigidly together with four steel bolts, with nuts on bottom, after removing which the mill may be easily taken apart. These casings, with the Feed Boxes, enclose the mill so completely that it is perfectly safe for any one to feed them.

### BOTTOM OF MILL

Is so constructed as to prevent any possibility of oil getting into the juice, at the same time giving the freest flow of juice with the least chance of clogging. Oil channels and oil tubes are not satisfactory, both of which clog and

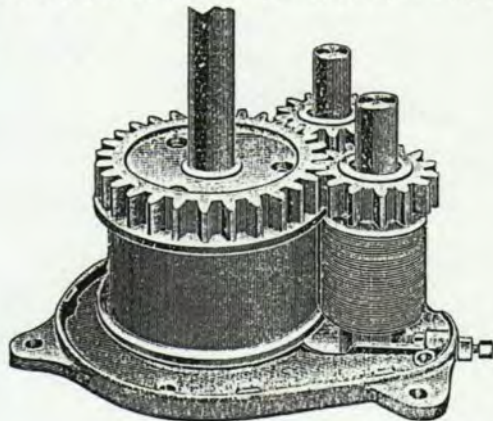


prevent the oil reaching the bearings. Our bearings are so made that it is impossible for the juice or cane to become mixed with the oil. All bearings can be oiled with a common oil can, which we furnish. Ample room is provided at each end of the mill to remove cane chips if necessary.

## ROLLS

Are machine molded, insuring the most perfect roll made and equalizing the pull on the clutches. All rolls have large steel shafts, and the ends of the king shafts are milled to fit lever cap, making a better fit than possible with the common forged end. Bottom or bearing end is also machined and runs in an oil bath. Large roll is turned to exact pitch of gear on same, and perfectly smooth, with flange above and below to keep the cane from working off

the rolls. The two small rolls are grooved for the purpose of making a positive feed. An original feature of the first small roll of our mill is the diameter being  $\frac{1}{8}$ " to  $\frac{1}{4}$ " smaller than the second small roll, which brings both gears in correct working pitch with the proper opening between the large and first small roll. (See cut A.) This opening in other mills can only be obtained by running the gear out of pitch line, which makes the mill work hard and the rolls work with a jerk.



Cut A.

(see cut A), instead of the common form of tooth as in other mills. The gears are made separate from the rolls, with three clutches engaging like clutches on the rolls, and are easily removable.

## GEARS

Are not only made from iron, machine cut patterns, but are machine molded as well, equalizing the pull on clutches. We have adopted Brown & Sharpe's involute tooth, specially designed for gears whose centers vary, as in cane mills

## LEVER CAP

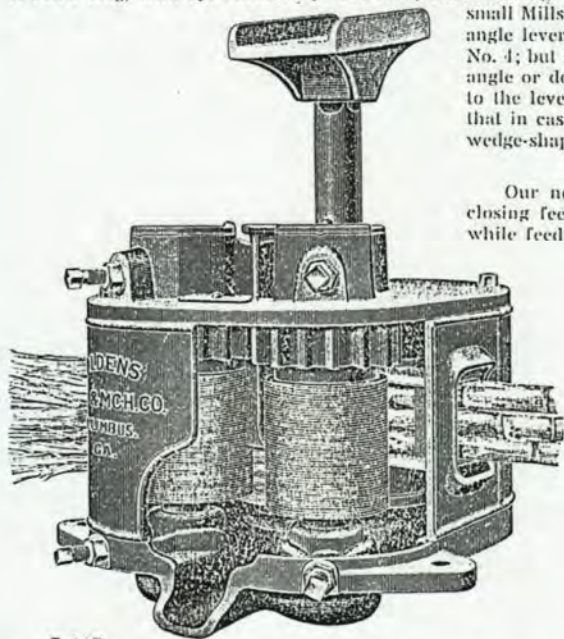
Is extra long, with eye formed by cast chill, thus insuring a perfect fit on the milled end of the king shaft. For the small Mills, No. 1 and No. 2, we furnish and recommend the single angle lever, and furnish the double angle lever cap for No. 3 and No. 4; but if it is desired we will furnish either the straight, single angle or double angle lever cap with these mills. In fitting sweep to the lever cap, it should touch the sides but not the bottom, so that in case of the wood shrinking it may be pulled tightly to the wedge-shaped sides of the cap, thus always being a tight fit.

## FEED BOX.

Our new Feed Box (patented) is of special design, entirely closing feed side of mill and preventing juice from spurting out while feeding, thereby saving a good deal of juice, usually lost in other mills.

It has a projecting lip which catches the juice and turns it back into the mill through opening made for this purpose. All our mills are fitted with this new Feed Box which is a great improvement over the old style mill, as it saves a large amount of juice from being lost. This Feed Box is quickly reversible, the lips and opening being made at top and bottom, so it can be used in case it is desired to run the mill in the opposite direction from which the mill was originally set to run.

It will be noticed that the opening in the Feed Box is smaller when compared with other mills on the market, and also mills formerly made by us. On the old style Feed Box, where the opening extends the length of the rolls, the operator in feeding the mill will invariably place the cane as far down or as far up as the opening in the Feed Box will allow. The cane spreads in crushing which causes the cane to turn under the flanges of the large roller or get in the gearing. This is obviated in our Feed Box by having this opening smaller, making it impossible in feeding for the cane to get into the gearing or turn in under the flanges of the rolls. (See cut B.)



Cut B

## BEARINGS.

We consider that our experience in manufacturing cane mills, combined with experience in connection with bearings for transmission of power in the numerous manufacturing plants we have installed, places us in position to know the best form of bearings for a cane mill, and we furnish all our journal boxes with babbitted bearings, so in case of renewing the bearing the operator can do it himself, or have it done at any small shop, while in the case of brass it is necessary to send quite a distance and then have to wait some time for the foundry to cast brass, usually once or twice per week. As a matter of fact, the so-called brass bearings usually furnished are rough, thin shells poorly fitting the boxes, as can be easily seen upon examining.



## GUIDE KNIFE OR TURN PLATE

Is self-adjusting and can be removed without slacking up any bolts. Does not project lower than the face of the rolls, making it almost impossible to choke the mill. (See cut, C, page 2.)

## COMBINED GUIDE AND SCRAPER.

The mill is provided with two steel scrapers, which not only keep the rolls clean, but serve as guides for discharge of bagasse.

## SET SCREWS

Are large and made of steel, with case hardened points, and are provided with jamb nuts, which keep the rolls in position when set. Unlike other mills, our adjusting screws are above the base, where they can be easily reached.

We furnish with each mill a small box containing one wrench for adjusting mill, bolts and washers for lever cap, and also bolts and washers to fasten mill to foundation, and one oil can for oiling mill.

### BEARINGS.

We consider that our experience in manufacturing cane mills, combined with experience in connection with bearings for transmission of power in the numerous manufacturing plants we have installed, places us in position

to know the best form of bearings for a cane mill, and we furnish all our journal boxes with babbitted bearings, so in case of renewing the bearing the operator can do it himself, or have it done at any small shop, while in the case of brass it is necessary to send quite a distance and then have to wait some time for the foundry to cast brass, usually once or twice per week. As a matter of fact, the so-called brass bearings usually furnished are rough, thin shells poorly fitting the boxes, as can be easily seen upon examining.



### GUIDE KNIFE OR TURN PLATE

Is self-adjusting and can be removed without slacking up any bolts. Does not project lower than the face of the rolls, making it almost impossible to choke the mill. (See cut, C, page 2.)

### COMBINED GUIDE AND SCRAPER.

The mill is provided with two steel scrapers, which not only keep the rolls clean, but serve as guides for discharge of bagasse.

### SET SCREWS

Are large and made of steel, with case hardened points, and are provided with jamb nuts, which keep the rolls in position when set. Unlike other mills, our adjusting screws are above the base, where they can be easily reached.

We furnish with each mill a small box containing one wrench for adjusting mill, bolts and washers for lever cap, and also bolts and washers to fasten mill to foundation, and one oil can for oiling mill.

# INDEX

## Standard Three-Roller Horse Power Mills.

Size	Size		Size		Cap. Gals. Juice Per Hr.	Weight	Price	For Full Description See Pages	For Repair Parts See Pages
	Large Rolls	Small Rolls	Feed	Discharge					
No. 1...1 Horse Light	10" x 5 1/2"	4 1/2" x 5"	5" x 5"	35	375	\$ 30.00	8 and 9	14 and 15	
No. 2...1 Horse Heavy	12 x 6 3/8	5 1/2 x 6	6 x 6	45	570	40.00			
No. 3...2 Horse Light	14 x 7 1/2	6 1/2 x 7	7 x 7	65	770	60.00			
No. 4...2 Horse Heavy	16 x 8 3/8	7 1/2 x 8	8 x 8	100	1,100	80.00			

## X Three-Roller Horse Power Mills.

Size	Size		Size		Cap. Gals. Juice Per Hr.	Weight	Price	For Full Description See Pages	For Repair Parts See Pages
	Large Rolls	Small Rolls	Feed	Discharge					
No. 1 X...1 Horse Medium	10" x 7 1/4"	4 1/2" x 7 1/2"	5" x 7 1/2"	52	450	\$ 40.00	10 and 11	16 and 17	
No. 2 X...1 Horse Heavy	12 x 9 3/8	5 1/2 x 9	6 x 9	67	680	52.00			
No. 3 X...2 Horse Medium	14 x 10 1/2	6 1/2 x 10 1/2	7 x 10 1/2	97	930	77.00			
No. 4 X...2 Horse Heavy	16 x 12 3/8	7 1/2 x 12	8 x 12	150	1,300	100.00			

## XX Three-Roller Horse Power Mills.

Size	Size		Size		Weight	Gals. Juice Per Hr.	Price	For Full Description See Pages	For Repair Parts See Pages
	Large Rolls	Small Rolls	Feed	Discharge					
No. 2 XX...1 Horse Heavy	12" x 9 3/8"	5 1/2" x 9"	6" x 9"	730	67	\$ 80.00	12 and 13	18 and 19	
No. 3 XX...2 Horse Medium	14 x 10 1/2	6 1/2 x 10 1/2	7 x 10 1/2	990	97	105.00			
No. 4 XX...2 Horse Heavy	16 x 12 3/8	7 1/2 x 12	8 x 12	1,395	150	135.00			

## Horizontal Steam Power Three-Roller Cane Mills.

No. Mill	H. P. Required	Gals. Juice Per Hour	Tons Cane 12 Hours	Size		Small Rolls Feed	Discharge	Pulleys Inches	Rev. Per Min. of Pulley	Ratio Gear- ing	Wt. In Pounds	Price	For Full Description See Pages	For Repair Parts See Pages		
				Large Rolls	Small Rolls											
No. 27	4 to 6	125 to 175	10 to 12	9 x 12	5 1/2 x 12	6 x 12	24 x 6 1/2	175	16 to 18	1	1,650	\$175.00	38	43		
No. 36	6 to 8	175 to 225	15 to 20	12 x 15	7 1/2 x 15	8 x 15	30 x 8 1/2	145	18 to 20	1	2,750	275.00				
No. 45	8 to 12	225 to 325	20 to 30	15 x 20	9 1/2 x 20	10 x 20	40 x 8 1/2	135	19 to 21	1	4,700	450.00			10	10
No. 54	15 to 20	400 to 550	35 to 50	18 x 25	11 1/2 x 25	12 x 25	48 x 10 1/2	125	19 to 21	1	7,900	750.00				
No. 63	25 to 30	550 to 650	50 to 60	21 x 30	13 1/2 x 30	14 x 30	56 x 12 1/2	100	20 to 22	1	13,000	1,350.00	42	45		

No. 8 Horizontal Horse Power Three-Roller Mill, pages 34 and 35. For repair parts see pages 36 and 37.



# INDEX

## Standard Two-Roller Horse Power Mills.

Size	Size Both Rollers	Size Journals	Weight	Cap. Gals. Juice Per Hr.	Price	For Full Description See Pages	For Repair Parts See Pages
No. 12...1 Horse Heavy	12" x 6 <sup>7</sup> / <sub>16</sub> "	2 <sup>1</sup> / <sub>16</sub> "	605	45	\$ 44.00	20 and 21	28 and 29
No. 14...2 Horse Light	14 x 7 <sup>7</sup> / <sub>16</sub> "	2 <sup>1</sup> / <sub>16</sub> "	835	70	66.00		
No. 16...2 Horse Heavy	16 x 8 <sup>7</sup> / <sub>16</sub> "	2 <sup>1</sup> / <sub>16</sub> "	1,160	100	88.00		

## X Two-Roller Horse Power Mills.

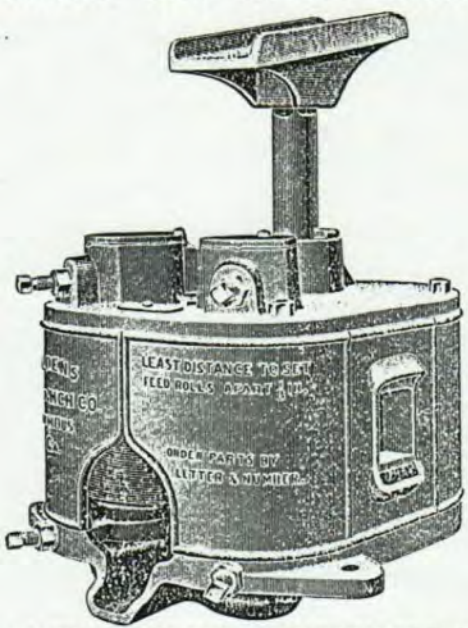
Size	Size Both Rollers	Size Journals	Weight	Cap. Gals. Juice Per Hr.	Price	For Full Description See Pages	For Repair Parts See Pages
No. 12 X..1 Horse Heavy	12" x 9 <sup>1</sup> / <sub>2</sub> "	2 <sup>1</sup> / <sub>16</sub> "	730	67	\$ 58.00	22 and 23	30 and 31
No. 14 X..2 Horse Medium	14 x 10 <sup>1</sup> / <sub>2</sub> "	2 <sup>1</sup> / <sub>16</sub> "	1,010	105	84.00		
No. 16 X..2 Horse Heavy	16 x 12 <sup>1</sup> / <sub>2</sub> "	2 <sup>1</sup> / <sub>16</sub> "	1,395	150	110.00		

## XX Two-Roller Horse Power Mills.

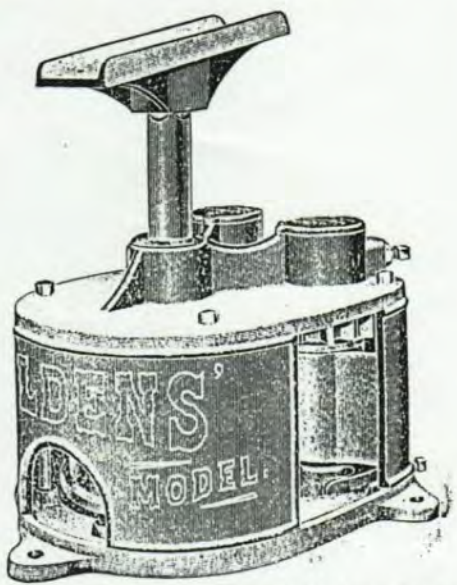
Size	Size Both Rollers	Size Journals	Weight	Cap. Gals. Juice per Hr.	Price	For Full Description see Pages	For Repair Parts See Pages
No. 18 XX.4 Horse Light	18" x 13 <sup>1</sup> / <sub>2</sub> "	3 <sup>1</sup> / <sub>16</sub> "	2,200	125 to 175	\$225.00	24 and 25	32 and 33
No. 20 XX.4 Horse Medium	20 x 15 <sup>1</sup> / <sub>2</sub> "	4 <sup>1</sup> / <sub>16</sub> "	2,930	150 to 200	285.00		
Two-Roller Mills Without Frames						26 and 27	
Golden-Cook Evaporator						48 to 50	
Steam Evaporator						52 to 60	
Bagasse Carrier						47	
Evaporator Furnace Fronts, Grates, Bearing Bar and Anchors, and Back Plate						51	
Steam Collector						61 and 62	
Kettles						63	
Standard Grate Bars						64 and 65	
Vertical Steam Power Cane Mills						66 to 75	

# Goldens' NEW MODEL Standard Three-Roller Horse Power Cane Mills.

(PATENTED)



SHOWING FEED BOX AND DISCHARGE SPOUT.



SHOWING BACK AND ROLLS WITH SCRAPER.

Price List NEW MODEL Standard Three-Roller Mills on opposite page.

See pages 14 and 15 for cuts and Price List of parts of NEW MODEL Standard Three-Roller Mills.

PRICE LIST

10

# Goldens' NEW MODEL Standard Three-Roller Horse Power Cane Mills.

Size	Style of Lever Cap	Size Large Rolls	Size of Journals Large Rolls	Size of Journals Feed	Size Small Rolls Discharge	Size Journals Small Roll	Weight	Cap. Gals. Juice Per Hr.	Price
No. 1...1 Horse Light	No. 1	10" x 5 1/2"	2 1/8"	4 1/2" x 5"	5" x 5"	1 1/2"	375	35	\$ 30.00
No. 2...1 Horse Heavy	No. 1	12 x 6 1/2"	2 1/8"	5 1/2 x 6	6 x 6	2 1/8"	570	45	40.00
No. 3...2 Horse Light	No. 2	14 x 7 1/2"	2 1/4"	6 1/2 x 7	7 x 7	2 1/8"	770	65	60.00
No. 4...2 Horse Heavy	No. 2	16 x 8 1/2"	2 1/4"	7 1/2 x 8	8 x 8	2 1/4"	1,100	100	80.00

These Mills are all fitted with Steel Shafts, Anti-Friction Metal Bearings and Steel Set Screws with Jamb Nuts, so that Rollers can be positively set. Gears are separable from Rollers.

The capacity of Cane Mills depends upon how they are handled, size of cane to be ground, speed of horse or mule, length of lever, and how fed with cane. Therefore, it is impossible for us to be exact in the capacity of our Mills, and we have consequently placed capacity at about the average amount. WE DO NOT GUARANTEE CAPACITY FOR REASONS ABOVE STATED.

See pages 10 and 11, for Goldens' Three-Roller X Mills.

See pages 12 and 13, for Goldens' Three-Roller XX Mills.

See pages 48 and 50, for Goldens' Patented Cook Evaporator.

## STYLE OF LEVER CAPS.



No. 1

Single Angle  
Standard for Mills  
Nos. 1, 2, 12, 1x, 2x and 12x.



No. 2

Double Angle  
Standard for Mills  
Nos. 3, 4, 14, 16, 3x, 4x,  
14x, 16x, 2xx, 3xx and 1xx.



No. 3

Straight  
Sent in Place of  
Nos. 1 and 2 if Order  
Particularly Specifies Same.

# Goldens' NEW MODEL Three-Roller Horse Power X Cane Mills.

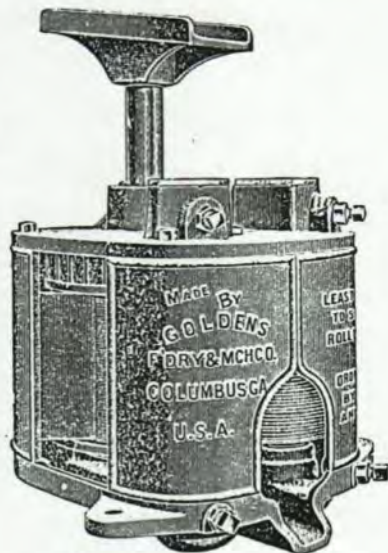
(PATENTED)

## LONG BARREL MILLS

The Golden New Model Two and Three-Roller Vertical Horse Power X Cane Mills are of the same general design as our Goldens' Standard New Model Two and Three-Roller Horse Power Cane Mills, except they are heavier and the Rolls, Feed Box, Guide Knife, etc., are 50 per cent. longer than the Standard Golden New Model Mills. These Mills are fitted with Steel Shafts, Anti-Friction Metal Bearings and Steel Set Screws with Jam Nuts, so that Rolls can be positively set. Gears are separable from Rolls. These X Mills are not suitable for grinding stubble, Japanese or tropical cane.



SHOWING FEED BOX AND DISCHARGE SPOUT.



SHOWING STEEL SCRAPER AND DISCHARGE SPOUT.

PRICE LIST

Goldens' NEW MODEL Three-Roller Horse Power X Cane Mills.

No.	Size	Style of Lever Cap	Size Large Rolls	Size Journals Large Rolls	Size Small Rolls Feed	Size Journals Small Rolls Discharge	Wt. Juice Per Hr.	Cap. Gals.	Price
No. 1	X.1 Horse Medium	No. 1	10" x 7 1/2"	2 3/4" x 4 1/2"	7 1/2" x 5"	7 1/2" x 7 1/2"	450	52	\$ 40.00
No. 2	X.1 Horse Heavy	No. 1	12 x 9 1/2"	2 3/4" x 5"	9" x 6"	9" x 7 1/2"	680	67	52.00
No. 3	X.2 Horse Medium	No. 2	14 x 10 1/2"	2 1/2" x 6"	10 1/2" x 7"	10 1/2" x 7 1/2"	930	97	77.00
No. 4	X.2 Horse Heavy	No. 2	16 x 12 1/2"	2 1/2" x 7 1/2"	12" x 8"	12" x 8"	1,300	150	100.00

These Mills are all fitted with Steel Shafts, Anti-Friction Metal Bearings and Steel Set Screws with Jam Nut, so that Rollers can be positively set. Gears are separable from Rollers.

The capacity of Cane Mills depends upon how they are handled, size of cane to be ground, speed of horse or mule, length of lever, and how fed with cane. Therefore, it is impossible for us to be exact in the capacity of our Mills, and we have, consequently, placed capacity at about the average amount. WE DO NOT GUARANTEE CAPACITY FOR REASONS ABOVE STATED.

See pages 8 and 9 for Goldens' Three-Roller Standard Mills. See pages 12 and 13 for Goldens' Three-Roller XX Mills. See pages 48 and 50 for Goldens' Patented Cook Evaporator.

Note—These X Mills are not suitable for grinding stubble or tropical cane. Where stubble, Japanese or tropical cane is to be ground use our Standard or XX Mills.

STYLE OF LEVER CAPS.



No. 1

Single Angle  
Standard for Mills  
Nos. 1, 2, 12, 18, 28 and 12x.



No. 2

Double Angle  
Standard for Mills  
Nos. 3, 4, 14, 16, 38, 48,  
118, 168, 288, 388 and 488.

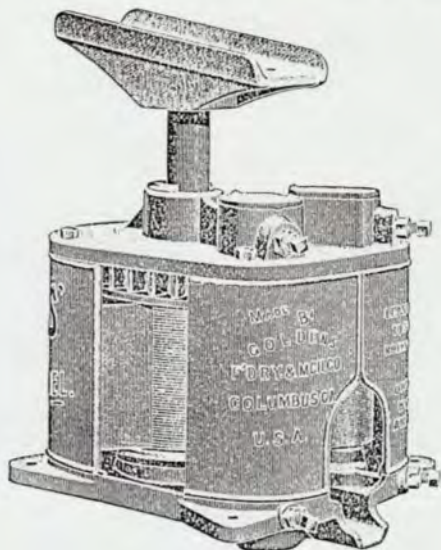


No. 3

Straight  
Sent in place of  
Nos. 1 and 2 if Order  
Particularly Specifies Same.

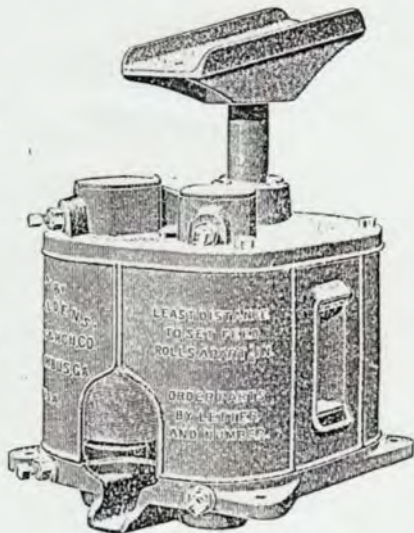
# Goldens' NEW MODEL Three-Roller Horse Power XX Cane Mills.

(PATENTED)



SHOWING STEEL SCRAPERS, DISCHARGE SPOUT AND ADJUSTING SCREWS.

LONG BARREL MILLS  
SPECIALLY  
DESIGNED  
FOR  
GRINDING  
HARD  
STUBBLE AND  
TROPICAL  
CANE.



SHOWING FEED BOX AND DISCHARGE SPOUT.

PRICE LIST

Goldens' NEW MODEL Three-Roller Horse Power **XX** Cane Mills.

Size	Style of Lever Cap	Size Large Rolls	Size Shaft Large Rolls	Size Small Rolls Feed	Size Shaft Discharge Small Rolls	Gals. Juice Per Hr.	Price				
No. 2 <b>XX</b> ...1 Horse Heavy ..	No. 2	12" x 9 3/8" ... 2 1/4"	5 1/2" x 9"	6" x 9"	2 3/8"	730...	67... \$ 80.00				
No. 3 <b>XX</b> ...2 Horse Medium.						14 x 10 1/4" ... 2 1/4"	6 1/2 x 10 1/2"	7 x 10 1/2"	2 1/8"	990...	97... 105.00
No. 4 <b>XX</b> ...2 Horse Heavy ..						16 x 12 1/8" ... 3 1/8"	7 1/2 x 12"	8 x 12"	2 1/4"	1,395...	150... 135.00

While our standard two and three roll, and X Cane Mills have given perfect satisfaction; there has been a demand among some of our customers for a heavier mill, specially adapted for the hard stubble, and tropical cane. We have been meeting this demand for some time, and furnishing a mill of special design for this purpose, known as our **XX** Mills.

These mills have the same general design and patented features, as in our other mills; in addition, they are heavier and stronger, having larger journals for large roll, with solid brass bearings, and heavy brass linings for small rolls. Large roll gear, is bored and attached to roll, which prevents cane from getting beneath gear, and clogging mill. The rolls are 50 per cent. longer than the standard mill. Mills are fitted with steel journals, and steel set screws, with jamb nuts, so that rolls can be positively set. Mills are furnished with four holding down bolts.

The capacity of cane mills, depends upon how they are handled, size of cane to be ground, speed of horse or mule, length of lever, and how fed with cane. Therefore, it is impossible for us to give exact capacity of our mills, consequently we have given capacity at about the average amount. WE DO NOT GUARANTEE CAPACITY OF MILLS, FOR REASONS ABOVE STATED.

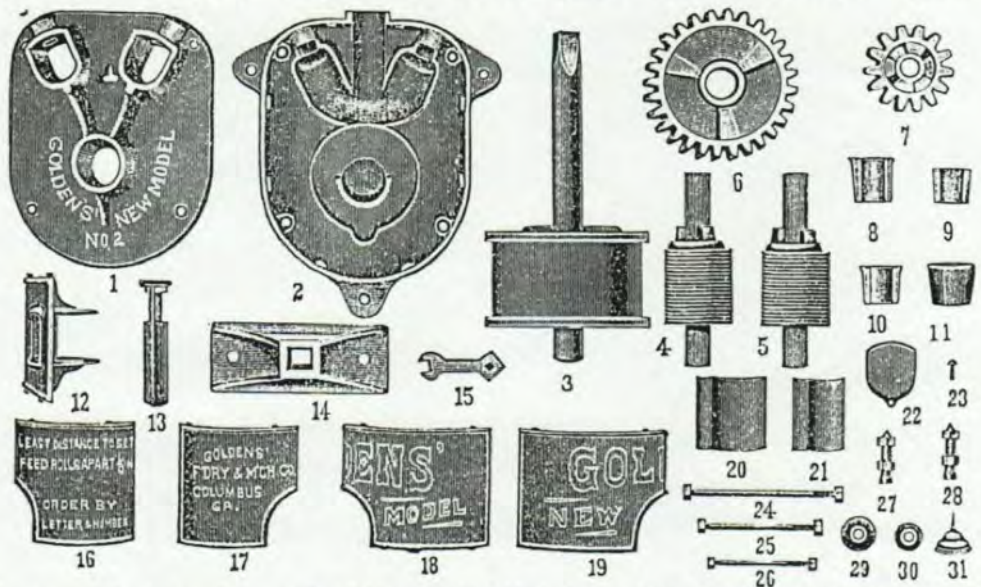
See pages 8 and 9, for Goldens' Three-Roller Standard Mills.

See pages 10 and 11, for Goldens' Three-Roller X Mills.

See pages 48 and 50, for Goldens' Patent Cook Evaporator.

We can furnish Single Angle or Straight Lever Cap in place of Double Angle if order particularly specifies same.

# PARTS OF Goldens' NEW MODEL Standard Three-Roller Horse Power Cane Mills.



Order by Letters and Numbers and state "for Goldens' NEW MODEL Standard Three-Roller Mill," giving size also of Mill.  
 All parts of these Mills have letters and numbers cast on them. For parts of Standard Two-Roller Mills, see pages 28 and 29.



# PARTS OF Goldens' NEW MODEL Standard Three-Roller Horse Power Cane Mills.

[See cuts on opposite page.]

## PRICE LIST.

No. of Cut		No. 1 Mill	No. 2 Mill	No. 3 Mill	No. 4 Mill
1	Top Plate	\$ 4.00	\$ 6.25	\$ 7.75	\$11.00
2	Bottom Plate	5.50	7.75	9.75	15.00
3	Large Roller	12.00	17.00	21.00	35.00
4	Small Grooved Feed or First Roller	7.00	9.50	13.00	19.00
5	Small Grooved Second or Discharge Roller	7.00	9.50	13.00	19.00
6	Large Gear	2.50	3.25	4.25	6.00
7	Small Gears, each	1.75	2.25	3.00	3.75
8	Top Box for Large Roller	1.00	1.15	1.40	1.75
9	Bottom Box for Large Roller	1.15	1.30	1.60	2.00
10	Top Box for Small Roller	.85	1.00	1.25	1.60
11	Bottom Box for Small Roller	1.50	1.65	2.00	2.40
12	Feed Box	1.25	1.70	2.20	2.50
13	Guide Knife	1.00	1.10	1.30	1.50
14	Lever Cap	2.50	3.25	4.25	5.50
15	Cast Iron Wrench	.25	.25	.30	.35
16	Left Hand Front Housing Panel	1.10	1.60	2.25	3.00
17	Left Hand Back Housing Panel	1.10	1.60	2.25	3.00
18	Right Hand Back Housing Panel	1.30	1.80	2.50	3.40
19	Right Hand Front Housing Panel	1.30	1.80	2.50	3.40
20	Steel Scraper for Large Roller	.65	.80	1.00	1.25
21	Steel Scraper for Small Roller	.50	.60	.80	1.00
22 } 23 }	Lids and Nut Screws for Journals, Small Rollers, each	.25	.30	.35	.40
24	Bolts for Housings, each	.20	.25	.30	.35
25	Bolt for Frame Timbers, each	.20	.25	.30	.35
26	Bolts for Lever Caps, each	.15	.20	.25	.30
27	Top Set Screws and Jamb Nuts, each	.90	1.00	1.10	1.20
28	Bottom Set Screws and Jamb Nuts, each	.90	1.00	1.10	1.20
29	Washers for Frame Timbers, each	.08	.10	.12	.15
30	Washers for Lever Cap, each	.08	.10	.12	.15
31	Oil Can	.60	.60	.60	.60

Order by Letters and Numbers and state "for Goldens' NEW MODEL Standard Three-Roller Mill," giving size also of Mill. All parts of these mills have letters and numbers cast on them. For parts of Standard Two-Roller Mills, see pages 28 and 29.

# PARTS OF Goldens' NEW MODEL Three-Roller Horse Power X Cane Mills.



Order by Letters and Numbers and state "for Goldens' NEW MODEL Three-Roller X Mill," giving size also of Mill.  
 All parts of these mills have letters and numbers cast on them. For parts of Two-Roller X Mills, see pages 30 and 31.

# PARTS OF Goldens' NEW MODEL Three-Roller Horse Power X Cane Mills.

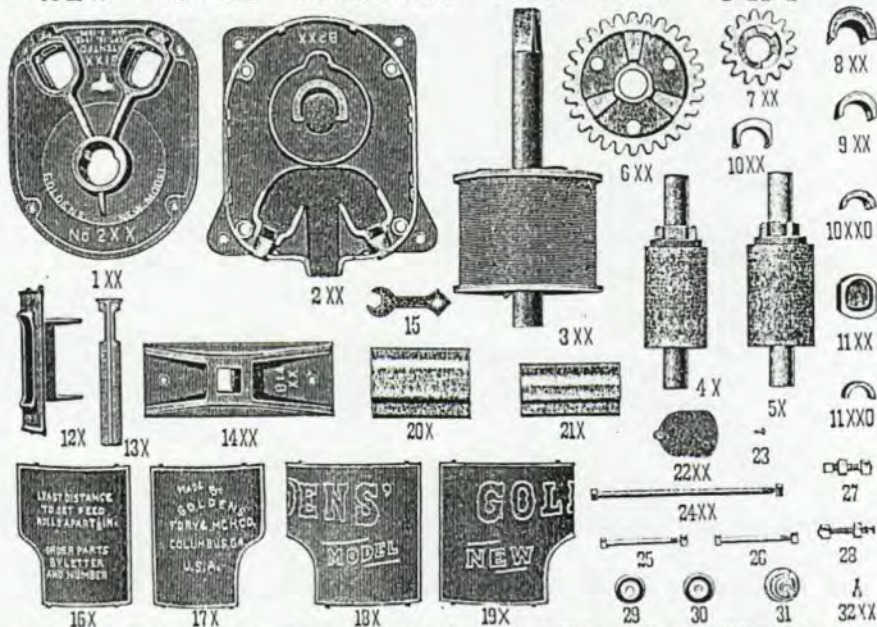
[See cuts on opposite page.]

## PRICE LIST.

No. of Cut		No. 1 X Mill	No. 2 X Mill	No. 3 X Mill	No. 4 X Mill
1	Top Plate	\$ 4.00	\$ 6.25	\$ 7.75	\$11.00
2	Bottom Plate	5.50	7.75	9.75	15.00
3 X	Large Roller	15.60	22.10	31.20	45.50
4 X	Small Grooved Feed or Front Roller	9.10	12.35	16.90	24.70
5 X	Small Grooved Second or Discharge Roller	9.10	12.35	16.90	24.70
6	Large Gear	2.50	3.25	4.25	6.00
7	Small Gears, each	1.75	2.25	3.00	3.75
8	Top Box for Large Roller	1.00	1.15	1.40	1.75
9	Bottom Box for Large Roller	1.15	1.30	1.60	2.00
10	Top Box for Small Roller	.85	1.00	1.25	1.60
11	Bottom Box for Small Roller	1.50	1.65	2.00	2.40
12 X	Feed Box	1.50	2.00	2.80	3.40
13 X	Guide Knife	1.10	1.30	1.55	1.90
14	Lever Cap	2.50	3.25	4.25	5.50
15	Cast Iron Wrench	.25	.25	.30	.35
16 X	Left Hand Front Housing Panel	1.40	2.05	2.85	3.80
17 X	Left Hand Back Housing Panel	1.40	2.05	2.85	3.80
18 X	Right Hand Back Housing Panel	1.65	2.30	3.20	4.35
19 X	Right Hand Front Housing Panel	1.65	2.30	3.20	4.35
20 X	Steel Scraper for Large Roller	.75	1.00	1.25	1.50
21 X	Steel Scraper for Small Roller	.62	.75	1.00	1.25
22 }	Lids and Nut Screws for Journals, Small Rollers, each	.25	.30	.35	.40
23 }					
24 X	Bolts for Housings, each	.25	.32	.40	.45
25	Bolts for Frame Timbers, each	.20	.25	.30	.35
26	Bolts for Lever Cap, each	.15	.20	.25	.30
27	Top Set Screws and Jamb Nuts, each	.90	1.00	1.10	1.20
28	Bottom Set Screws and Jamb Nuts, each	.90	1.00	1.10	1.20
29	Washers for Frame Timbers, each	.08	.10	.12	.15
30	Washers for Lever Cap, each	.08	.10	.12	.15
31	Oil Can	.60	.60	.60	.60

Order by Letters and Numbers and state "for Goldens' NEW MODEL Three-Roller X Mill," giving size also of Mill. All parts of these Mills have letters and numbers cast on them. For parts of Two-Roller X Mills, see pages 30 and 31.

# PARTS OF Goldens' NEW MODEL Three-Roller Horse Power XX Cane Mills.



Order by Letters and Numbers and state "for Goldens' NEW MODEL Three-Roller XX Mill," giving size also of Mill. All parts of these Mills have letters and numbers cast on them. The large rolls on these Mills are turned smooth and the two small rolls are grooved. When ordered, these Mills will be furnished with Feed Box having division strip in center.

# PARTS OF Goldens' NEW MODEL Three-Roller Horse Power **XX** Cane Mills.

20

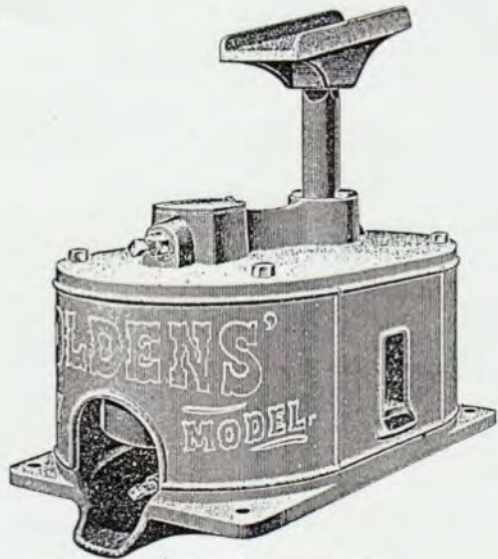
[See cuts on opposite page.]

No. of Cut	PRICE LIST.			
	No. 2 XX Mill	No. 3 XX Mill	No. 4 XX Mill	
1XX	Top Plate .....	\$ 7.10	\$ 9.50	\$13.65
2XX	Bottom Plate .....	9.00	13.00	19.50
3XX	Large Roller .....	24.00	34.00	46.50
4X	Small Grooved Feed or Front Roller .....	12.50	17.00	25.00
5X	Small Grooved Second or Discharge Roller .....	12.50	17.00	25.00
6XX	Large Gear .....	4.75	6.00	8.00
7XX	Small Gears, each .....	2.50	3.25	4.00
8XX	Top Box for Large Roller, Solid Brass .....	4.75	6.00	8.00
9XX	Bottom Box for Large Roller, Solid Brass .....	4.40	5.30	6.75
10XX	Top Box for Small Roller, Cast Iron, Without Brass .....	1.00	1.25	1.60
10XX0	Top Brass, Small Roll Fits C. I. Top Box .....	3.30	5.25	7.30
11XX	Bottom Box for Small Roller, Cast Iron, Without Brass .....	1.65	2.00	2.40
11XX0	Bottom Brass, Small Roll Fits C. I. Bottom Box .....	3.30	5.25	6.30
12X	Feed Box .....	2.00	2.80	3.40
13X	Guide Knife .....	1.30	1.55	1.90
14XX	Lever Cap .....	6.00	7.80	11.00
15	Cast Iron Wrench .....	.25	.30	.35
16X	Left Hand Front Housing Panel .....	2.05	2.85	3.80
17X	Left Hand Back Housing Panel .....	2.05	2.85	3.80
18X	Right Hand Back Housing Panel .....	2.30	3.20	4.35
19X	Right Hand Front Housing Panel .....	2.30	3.20	4.35
20X	Steel Scraper for Large Roller .....	1.25	1.50	1.75
21X	Steel Scraper for Small Roller .....	1.00	1.25	1.50
22XX	Lids and Nut Screws for Journals, Small Rollers, each	.30	.35	.40
23				
24XX	Bolts for Housings, each .....	.35	.40	.45
25	Bolts for Frame Timbers, each .....	.25	.30	.35
26	Bolts for Lever Caps, each .....	.25	.30	.35
27	Top Set Screws and Jamb Nuts, each .....	1.00	1.10	1.20
28	Bottom Set Screws and Jamb Nuts, each .....	1.00	1.10	1.20
29	Washers for Frame Timbers, each .....	.10	.12	.15
30	Washers for Lever Cap, each .....	.10	.12	.15
31	Oil Can .....	.60	.60	.60
32XX	Cap Screw for Large Gear, each .....	.30	.35	.40

Order by Letters and Numbers and state "for Goldens' NEW MODEL Three-Roller XX Mill," giving size also of Mill. All parts of these mills have letters and numbers cast on them. The large rolls on these Mills are turned smooth and the two small rolls are grooved. When ordered, these Mills will be furnished with Feed Box having division strip in center.

# Goldens' NEW MODEL Standard Two-Roller Horse Power Cane Mills.

(PATENTED)



SHOWING FRONT AND FEED BOX.



SHOWING END AND ADJUSTING SCREW.

Price List for NEW MODEL Standard Two-Roller Mills on opposite page.

See pages 28 and 29 for cuts and Price List of parts of NEW MODEL Standard Two-Roller Mills.

## PRICE LIST

## Goldens' NEW MODEL Standard Two-Roller Horse Power Cane Mills.

	Size	Style of Lever Cap	Size of Both Rollers	Size of Journals	Weight	Cap. Gals. Juice Per Hr.	Price
No. 12.....	1 Horse Heavy	No. 1.....	12" x 6 1/2"	2 1/2"	605.....	45 .....	\$ 44.00
No. 14.....	2 Horse Light	No. 2.....	14 x 7 1/2	2 1/2	835.....	70 .....	66.00
No. 16.....	2 Horse Heavy	No. 2.....	16 x 8 1/2	2 1/2	1,160.....	100 .....	88.00

These Mills are all fitted with Steel Shafts, Anti-Friction Metal Bearings and Steel Set Screws with Jam Nuts, so that Rollers can be positively set. Gears are separable from Rollers.

The capacity of Cane Mills depends upon how they are handled, size of cane to be ground, speed of horse or mule, length of lever, and how fed with cane. Therefore, it is impossible for us to be exact in the capacity of our Mills, and we have consequently, placed capacity at about the average amount. WE DO NOT GUARANTEE THE CAPACITY FOR REASONS ABOVE STATED.

Note Specially: That our Two-Roller Mills have long driving shafts which allows the lever or sweep to pass over the head of one feeding the Mills and thus lessens the danger of getting injured.

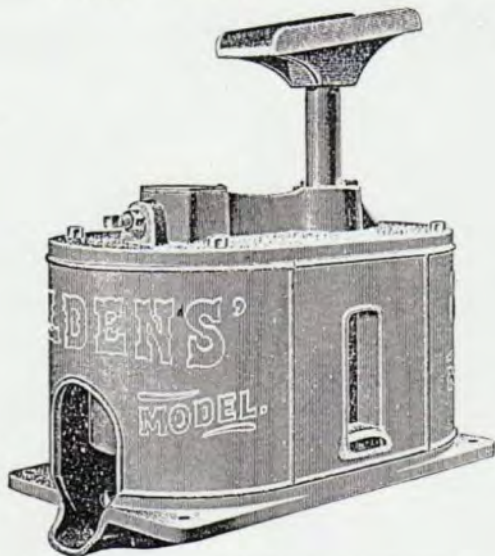
See pages 22 and 23 for Goldens' Two-Roller X Mills.

See pages 24 and 25 for Goldens' Two-Roller XX Mills.

See pages 48 and 50 for Goldens' Patented Cook Evaporator.

For cuts of Lever Caps see pages 9, 11 and 76.

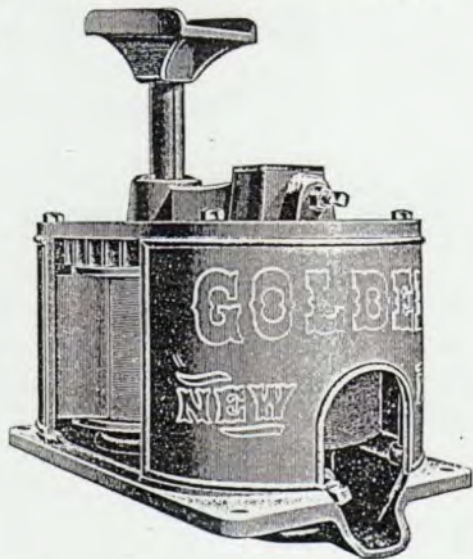
Goldens' NEW MODEL Two-Roller Horse Power X Cane Mills. 23



SHOWING FEED BOX AND DISCHARGE SPOUT.

(PATENTED)

LONG  
BARREL  
MILLS.



SHOWING STEEL SCRAPERS, DISCHARGE SPOUT  
AND ADJUSTING SCREWS.



24

## PRICE LIST

## Goldens' NEW MODEL Two-Roller Horse Power X Cane Mills.

	Size	Style of Lever Cap	Size of Both Rollers	Size of Journals	Weight	Cap. Gals. Juice per Hr.	Price
No. 12 X.....	1 Horse	Heavy	No. 1.....12" x 9 7/8"	2 1/2"	730	67.....	\$ 58.00
No. 14 X.....	2 Horse	Medium	No. 2.....14 x 10 1/2"	2 1/2"	1,010	105.....	84.00
No. 16 X.....	2 Horse	Heavy	No. 2.....16 x 12 1/2"	2 1/2"	1,395	150.....	110.00

These mills are all fitted with Steel Shafts, Anti-Friction Metal Bearings and Steel Screws with Jamb Nuts, so that Rollers can be positively set. Gears are separable from Rollers.

The capacity of Cane Mills depends upon how they are handled, size of cane to be ground, speed of horse or mule, length of lever, and how fed with cane. Therefore, it is impossible for us to be exact in the capacity of our Mills, and we have consequently, placed capacity at about the average amount. WE DO NOT GUARANTEE THE CAPACITY FOR REASONS ABOVE STATED.

Note Specially: That our Two-Roller Mills have long driving shafts, which allows the lever or sweep to pass over the head of one feeding the mill, and thus lessens the danger of getting injured.

See pages 20 and 21 for Goldens' Two-Roller Standard Mill.

See pages 24 and 25 for Goldens' Two-Roller XX Mills.

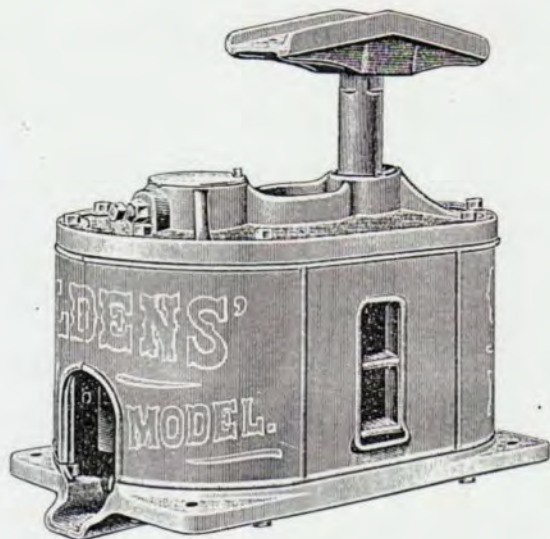
See pages 48 and 50 for Goldens' Patented Cook Evaporator.

For cuts of Lever Caps, see pages 9, 11 and 76.

Goldens' NEW MODEL Two-Roller Horse Power **XX** Cane Mills.

25

(PATENTED)



SHOWING FEED BOX AND DISCHARGE SPOUT.

L  
O  
N  
G

B  
A  
R  
R  
E  
L

M  
I  
L  
L  
S



SHOWING DISCHARGE SPOUT AND ADJ. SCREWS.

## PRICE LIST

Goldens' NEW MODEL Two-Roller Horse Power **XX** Cane Mills.

	Size	Size of Both Rollers	Size of Journals	Weight	Cap. Gals. Juice per Hr.	Price
No. 18 <b>XX</b> .....	4 Horse Light	18" x 13 $\frac{1}{8}$ "	3 $\frac{1}{2}$ "	2,200.....	125 to 175.....	\$225.00
No. 20 <b>XX</b> .....	4 Horse Medium	20 x 15 $\frac{1}{8}$ "	4 $\frac{1}{2}$ "	2,930.....	150 to 200.....	285.00

[As per cuts on opposite page.]

While our Two and Three Roller Standard and **X** Cane Mills are heavier than the ordinary Two and Three-Roller Mills on the market, we find a call for a double extra heavy Two-Roller Mill for very heavy duty—"a mill in a class by itself." So we have designed and gotten up patterns for these **XX** Two-Roller Mills, with rolls 18 inch and 20 inch diameter, with all parts double extra heavy as will be noticed by cuts on opposite page.

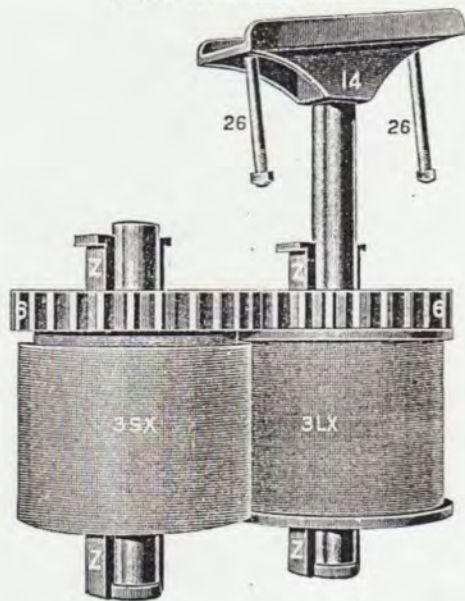
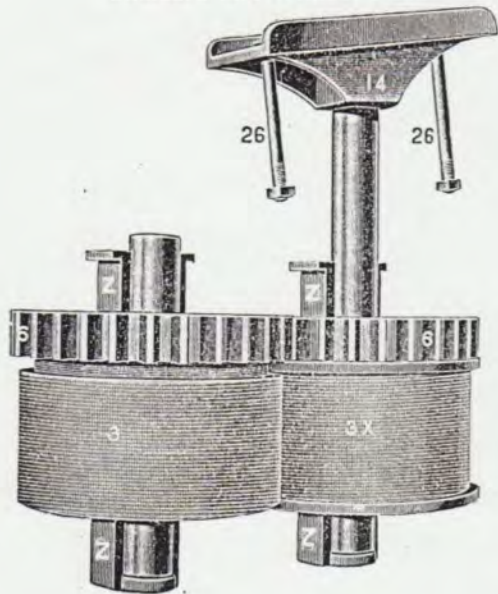
The top is connected between bearings by two ribs, instead of one, with extra side braces on box bearings. The adjusting screws are extra large and the brass bearings for rolls are extra long with large diameter journals. The square of driving roll journal is planed to fit cap, which is extra long and strongly braced to prevent breakage.

The bolts tying frame together have been increased in number from four to eight, making a very rigid and strong Mill capable of standing the increased strain due to large diameter of rolls and height of Mill necessary for extra length rolls.

# Goldens' NEW MODEL Two-Roller Horse Power Cane Mills. WITHOUT FRAMES.

Standard Mill Without Frame.

X Mill Without Frame.



# Goldens' NEW MODEL Two-Roller Horse Power Cane Mills. WITHOUT FRAMES.

The cut on opposite page shows our Standard X and XX Two-Roller Mills, without the Frames or Housings. Cane Mills all ready for use are so cheap that we do not think it economy to purchase the Rollers and then make the Frame. Yet, to those who think otherwise, we will say that they will find these Mills equal to any, and will give entire satisfaction if Frames are properly made.

### PRICE LIST.

#### GOLDENS' NEW MODEL TWO-ROLLER STANDARD CANE MILLS.—Without Frames.

No.	Size of Both Rollers	Style of Lever Cap	Size of Journals	Weight of Two Rollers with Cap, Gear and Boxes	Price
No. 24	12" x 6 1/2"	No. 1	2 1/8"	365	\$30.00
No. 28	14 x 7 1/2	No. 2	2 1/8	475	46.00
No. 32	16 x 8 1/2	No. 2	2 1/8	650	60.00

### PRICE LIST.

#### GOLDENS' NEW MODEL TWO-ROLLER X CANE MILLS.—Without Frames.

No.	Size of Both Rollers	Style of Lever Cap	Size of Journals	Weight of Two Rollers with Cap, Gear and Boxes	Price
No. 24 X	12" x 9 1/8"	No. 1	2 1/8"	400	\$40.00
No. 28 X	14 x 10 1/8	No. 2	2 1/8	600	60.00
No. 32 X	16 x 12 1/8	No. 2	2 1/8	830	80.00

### PRICE LIST.

#### GOLDENS' NEW MODEL TWO-ROLLER XX CANE MILLS.—Without Frames.

No.	Size of Both Rollers	Style of Lever Cap	Size of Journals	Weight of Two Rollers with Cap, Gear and Boxes	Price
No. 37 XX	18" x 13 1/4"	No. 2	3 1/4"	1,220	\$125.00
No. 40 XX	20 x 15 1/4	No. 2	4 1/4	1,725	175.00

Boxes are always shipped with above Mills.

The Top and Bottom Boxes for Rolls for this style of Mill have Square Sides and Back for the purpose of adjusting with wooden wedges as used in the old style wooden framing.

Box Z-1 is used for Top Box of Long or Short Roll of No. 24 and 24 X Mill. Z-2 is Bottom Box for same.

Box Z-3 is used for Top Box of Long or Short Roll of No. 28 and 28 X Mill. Z-4 is Bottom Box for same.

Box Z-5 is used for Top Box of Long or Short Roll of No. 32 and 32 X Mill. Z-6 is Bottom Box for same.

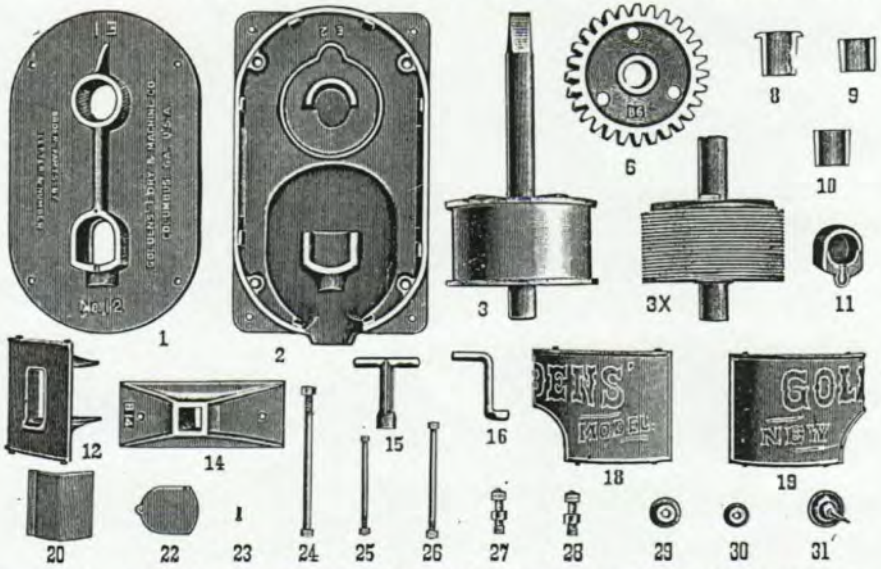
Box Z-7 is used for Top Box of Long or Short Roll of No. 37 XX Mill. Z-8 is Bottom Box for same.

Box Z-9 is used for Top Box of Long or Short Roll of No. 40 XX Mill. Z-10 is Bottom Box for same.

These Mills are fitted with Steel Shafts, and Boxes are lined with Anti-Friction Metal. Gears are separate from Rollers.

PARTS OF

Goldens' NEW MODEL Standard Two-Roller Horse Power Cane Mills.



Order by Letters and Numbers and state "for Goldens' NEW MODEL Standard Two-Roller Mill," giving size also of Mill. All parts of these Mills have letters and numbers cast on them. For parts of Standard Three-Roller Mills, see pages 14 and 15.

## PARTS OF

## Goldens' NEW MODEL Standard Two-Roller Horse Power Cane Mills.

[See cuts on opposite page]

## PRICE LIST.

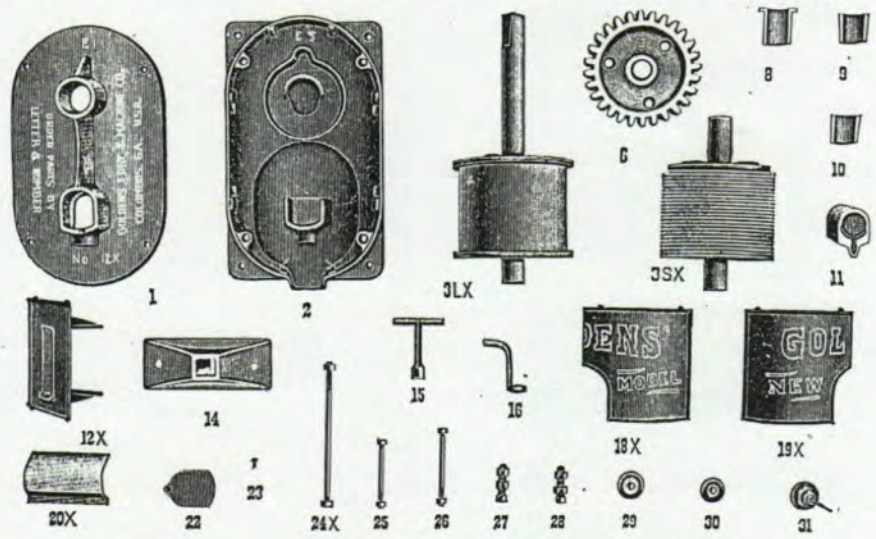
No. of Cut		No. 12 MILL	No. 14 MILL	No. 16 MILL
1	Top Plate .....	\$ 7.00	\$ 9.50	\$13.50
2	Bottom Plate .....	10.00	13.50	19.50
3	Long Journal or King Roller .....	17.00	24.00	35.00
3 X	Short Journal Roller .....	14.50	20.50	31.00
6	Gear for either Roller, each .....	3.25	4.25	6.00
8	Top Box for Long Journal Roller .....	1.15	1.40	1.75
9	Bottom Box for Long Journal Roller .....	1.30	1.60	2.00
10	Top Box for Short Journal Roller .....	1.10	1.35	1.70
11	Bottom Box for Short Journal Roller .....	1.75	2.10	2.50
12	Feed Box .....	2.30	2.80	3.40
14	Lever Cap .....	3.25	4.25	5.50
15	Cast Iron T Wrench .....	.45	.60	.70
16	Cast Iron S Wrench .....	.30	.35	.50
18	Front and Back Panels for Housings, each .....	2.00	2.75	3.60
19	Front and Back Panels for Housings, each .....	2.00	2.75	3.60
20	Steel Scrapers for either Roller, each .....	.80	1.00	1.25
22 } 23 }	Lids with Screw for Short Journal Roller .....	.35	.40	.45
24	Bolts for Housings, each .....	.25	.30	.35
25	Bolts for Lever Cap, each .....	.29	.25	.30
26	Bolts for Frame Timbers, each .....	.25	.30	.35
27	Top Set Screw and Jamb Nuts .....	1.00	1.10	1.20
28	Bottom Set Screw and Jamb Nuts .....	1.00	1.10	1.20
29	Washers for Frame Timbers, each .....	.10	.12	.15
30	Washers for Lever Cap .....	.10	.12	.15
31	Oil Can .....	.60	.60	.60

Order by Letters and Numbers and state "for Goldens' NEW MODEL Standard Two-Roller Mill," giving size also of Mill.

All parts of these Mills have letters and numbers cast on them.

For parts of Standard Three-Roller Mills, see pages 14 and 15.

# PARTS OF Goldens' NEW MODEL Two-Roller Horse Power X Cane Mills.



Order by Letters and Numbers and state "for Goldens' NEW MODEL Two-Roller X Mill," giving size also of Mill. All parts of these Mills have letters and numbers cast on them. For parts of Three-Roller X Mills, see pages 16 and 17.



# PARTS OF Goldens' NEW MODEL Two-Roller Horse Power X Cane Mills.

[See cuts on opposite page.]

## PRICE LIST.

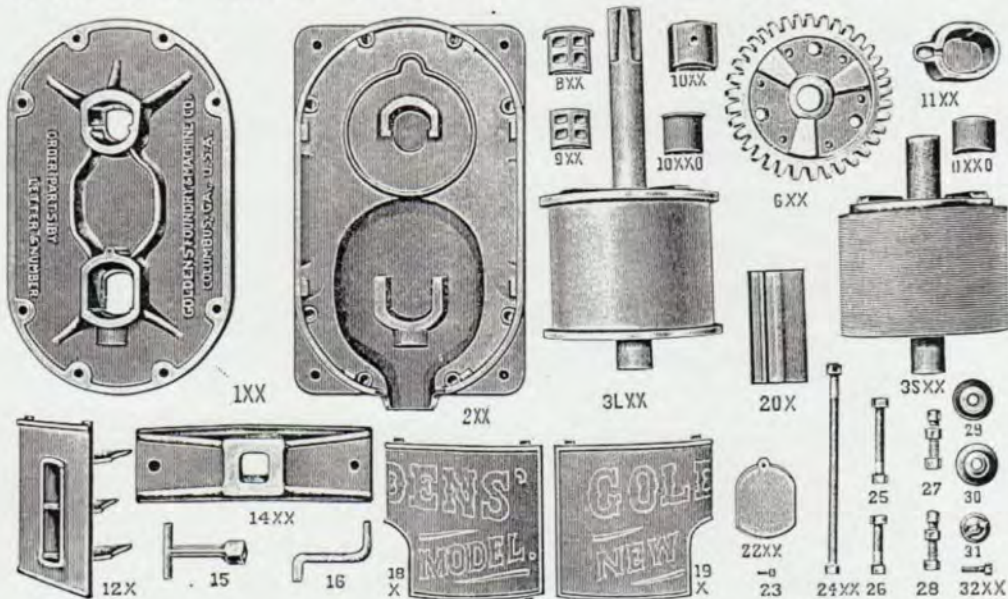
No. of Cut	No. 12 X Mill	No. 14 X Mill	No. 16 X Mill	
1	Top Plate .....	\$ 7.00	\$ 9.50	\$13.50
2	Bottom Plate .....	10.00	13.50	19.50
3 LX	Long Journal or King Roller.....	22.10	31.20	45.50
3 SX	Short Journal Roller.....	18.85	26.65	40.30
6	Gear for either Roller, each.....	3.25	4.25	6.00
8	Top Box for Long Journal Roller.....	1.15	1.40	1.75
9	Bottom Box for Long Journal Roller.....	1.30	1.60	2.00
10	Top Box for Short Journal Roller.....	1.10	1.35	1.70
11	Bottom Box for Short Journal Roller.....	1.75	2.10	2.50
12 X	Feed Box .....	2.90	3.55	4.00
14	Lever Cap .....	2.25	4.25	5.50
15	Cast Iron T Wrench.....	.45	.60	.70
16	Cast Iron S Wrench.....	.30	.35	.50
18 X	Front and Back Panels for Housings, each.....	2.55	3.50	4.60
19 X	Front and Back Panels for Housings, each.....	2.55	3.50	4.60
20 X	Steel Scrapers for either Roller, each.....	1.00	1.25	1.55
22	Lids with Screw for Short Journal Roller.....	.35	.40	.45
23				
24 X	Bolts for Housings, each.....	.35	.40	.45
25	Bolts for Lever Cap, each.....	.20	.25	.30
26	Bolts for Frame Timbers, each.....	.25	.30	.35
27	Top Set Screw and Jamb Nuts.....	1.00	1.10	1.20
28	Bottom Set Screw and Jamb Nuts.....	1.00	1.10	1.20
29	Washers for Frame Timbers, each.....	.10	.12	.15
30	Washers for Lever Cap.....	.10	.12	.15
31	Oil Can .....	.60	.60	.60

Order by Letters and Numbers, and state "for Goldens' NEW MODEL Two-Roller X Mill," giving size also of Mill.

All parts of these Mills have letters and numbers cast on them. For parts of Three-Roller X Mills, see pages 16 and 17.

## PARTS OF

## Goldens' NEW MODEL Two-Roller Horse Power XX Cane Mills.



Order by Letters and Numbers and state "for Goldens' NEW MODEL Two-Roller XX Mill," giving size also of Mill. All parts of these Mills have letters and numbers cast on them. For parts of Two-Roller X Mills, see pages 30 and 31.

34

PARTS OF

**Goldens' NEW MODEL Two-Roller Horse Power XX Cane Mills.**

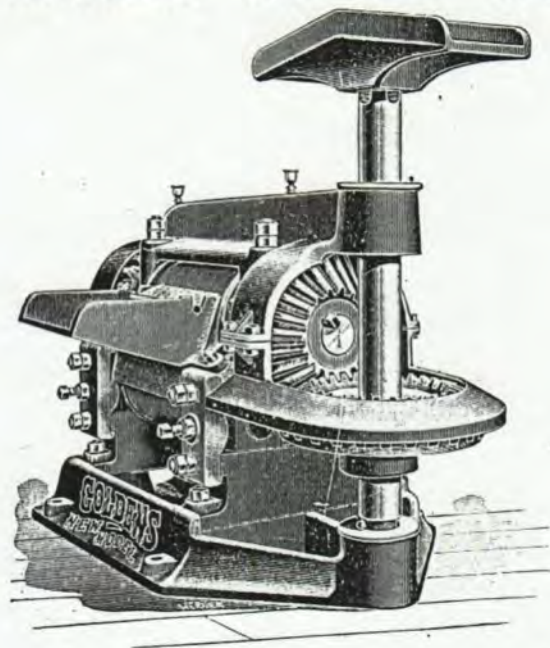
[See cuts on opposite page.]

PRICE LIST.

No. of Cut	No. 18 XX Mill	No. 20 XX Mill
1XX Top Plate .....	\$26.00	\$34.00
2XX Bottom Plate .....	38.00	41.00
3LXX Long Journal or King Roller .....	70.00	90.00
3SXX Short Journal Roller .....	60.00	75.00
6XX Gear for either Roller, each .....	9.00	11.75
8XX Brass Top Box for Long Journal Roller .....	9.50	11.00
9XX Brass Bottom Box for Long Journal Roller .....	8.75	9.50
10XX Cast Iron Top Box for Short Journal Roller .....	2.00	3.00
10XXO Top Brass for Short Journal fits Cast Iron Box 10 XX .....	5.00	6.25
11XX Cast Iron Bottom Box for Short Journal Roller .....	3.25	4.00
11XXO Bottom Brass for Short Journal fits Cast Iron Box 11 XX .....	5.00	6.25
12X Feed Box .....	5.20	6.60
14XX Lever Cap .....	10.50	14.00
15 Cast Iron T Wrench .....	.75	.90
16 Cast Iron S Wrench .....	.50	.60
18X Front and Back Panels for Housings, each .....	8.40	10.60
19X Front and Back Panels for Housings, each .....	8.40	10.60
20X Steel Scrapers for either Roller, each .....	1.60	1.90
22XX } Lids with Screw for Short Journal Roller .....	.60	.75
23 } .....		
24XX Bolts for Housings, each .....	.50	.60
25 Bolts for Lever Cap, each .....	.40	.50
26 Bolts for Frame Timbers, each .....	.45	.55
27 Top Set Screw and Jamb Nuts .....	1.20	1.40
28 Bottom Set Screw and Jamb Nuts .....	1.20	1.40
29 Washers for Frame Timbers, each .....	.20	.25
30 Washers for Lever Cap .....	.20	.25
31 Oil Can .....	.60	.60
32XX Cap Screw for Gear, each .....	.50	.50

Order by Letters and Numbers and state "for Goldens' NEW MODEL Two-Roller XX Mill," giving size also of Mill. All parts of these Mills have letters and numbers cast on them. For parts of Two Roller X Mills, see pages 30 and 31.

# GOLDENS' NEW MODEL Self-Contained Three-Roller Horizontal Horse Power Cane Mills.



(PATENTED)

The Horizontal Steam Power Cane Mills of any size are conceded to be superior to the Vertical Style Mills of that size as it is possible to make a more rigid Mill with finer and more positive adjustments in the Horizontal Mill than in the Vertical Mill.

Our New Model Steam Power Cane Mills of different sizes have been designed and patented to supply the demands for this style of Mills, and where the Mills can be run by belts are preferable. There is, however, a demand for Horizontal Mills to be run by Horse Power, and in our New Model Self-contained Horizontal Horse Power Mills we can supply this demand.

The rolls, as in our Steam Power Mills, are held in rigid housings, with adjustable boxes for journals. The housings are mounted on a heavy bed plate with a ribbed extension containing a babbitted bearing for driving shaft journals.

The upper end of the shaft is supported by a yoke which attaches both top boxes for roll and shaft bearings in one rigid piece, which piece is firmly bolted to the housing.

The rolls are driven by bevel Gears, with a proportion of one and one-half to one, which gives a faster surface speed of rolls, than where the driving shaft is attached direct to roll as in Vertical Mills, thus giving a greater production for the same size and length of rolls, with the same speed of horse.

All parts having bearings are machined, where necessary, as is the case of our regular Steam Power Mills. Our New Style of Feed Box is used, with guard to prevent juice from being wasted from above, and a guard below to prevent the juice from squirting out, also the reversible guide knife and the discharge chute with scrapers for rolls and provision for leading juice back into the mill, as in our Horizontal Steam Power Mills. This juice is usually lost by running out with bagasse in other makes of mills. The feed box and discharge chute are reversible. This in fact, is our No. 27 Horizontal Steam Power Mill, adapted to run by Horse Power.

While it might be possible to feed a Vertical Mill fast enough to obtain the same production as on a Horizontal Mill, for a short time, with the same surface speed the average man would feed much more cane in a day to the Horizontal Mill, and with the rolls geared one and one-half to one, produce a much greater quantity of juice, than is possible in the same size Vertical Mill.

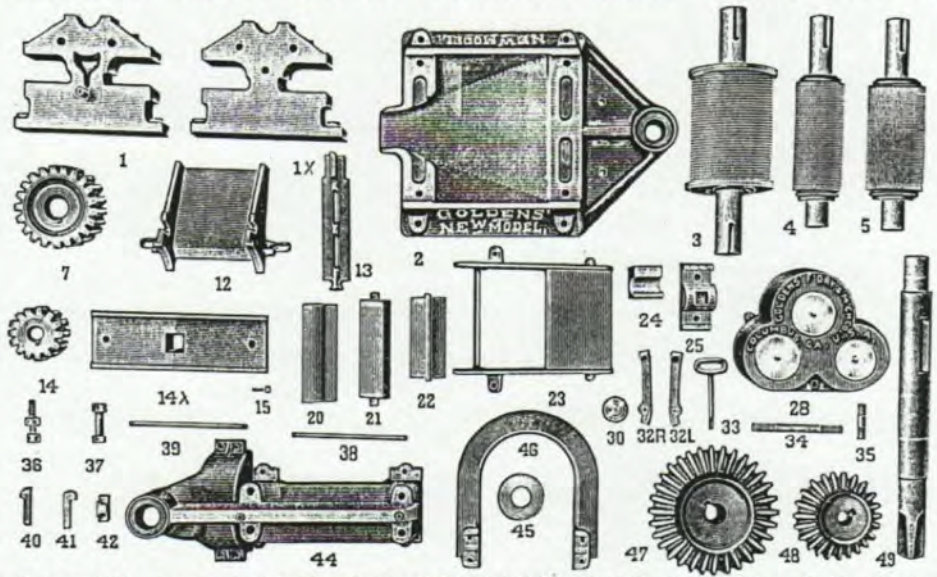
As in our other NEW MODEL Cane Mills, this Mill has been thoroughly tested before putting it on the market, and we feel confident that it will prove entirely satisfactory to those wanting and buying this Mill.

---

PRICE LIST.

No. 8.....	Diam. Large Rolls	Diam. Small Rolls	Length of Rolls	Weight	Cap. Gals. Juice per Hr.	Price
2 Horse Extra Heavy.....	9"	6"	12".....	1,350.....	125.....	\$190.00

# PARTS OF GOLDENS' NEW MODEL Self-Contained Three-Roller Horizontal Horse Power Cane Mills.



Order by Letters and Numbers and state "for Golden's NEW MODEL Self-Contained Three-Roller Horizontal Ho Power Cane Mill."

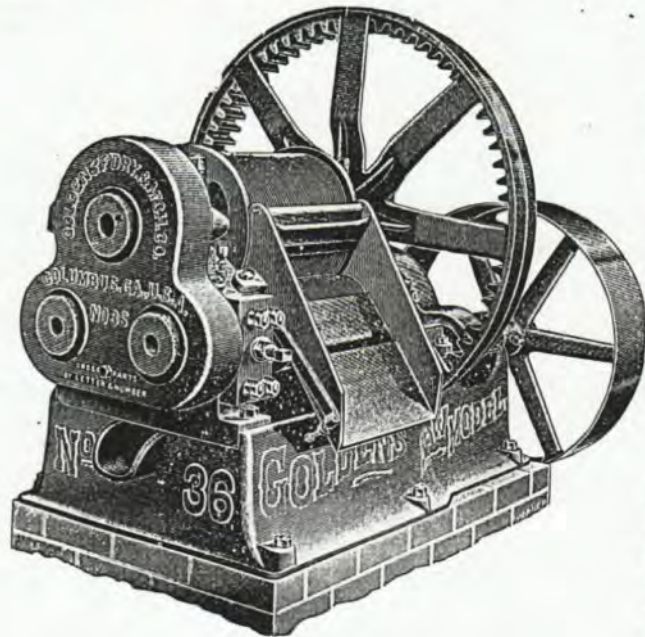
All parts of these Mills have letters and numbers cast on them.  
See page 37.

PARTS OF  
**GOLDENS' NEW MODEL**  
**Self-Contained Three-Roller Horizontal Horse Power Cane Mills.**

[See cuts on opposite page]

No. of Cut	Name of Piece	Price	No. of Cut	Name of Piece	Price
1	R. H. Housing.....	\$18.00	28	Triple Gear Guard.....	\$ 6.00
1 X	L. H. Housing.....	18.00	30	Oil Can .....	.50
2	Base .....	29.00	32R	R. H. Adj. Lever for Small Roll Scraper.....	.50
3	Large Roll .....	30.00	32L	L. H. Adj. Lever for Small Roll Scraper....	.50
4	First Small Roll, 5 1/2" diameter x 12" long..	20.00	33	Guide Knife Handle.....	1.00
5	Second Small Roll, 6" diameter x 12" long..	20.00	34	Vertical Frame Stud, four pieces, each.....	.60
7	Large Roll Plain Spur Gear.....	7.00	35	Horizontal Frame Stud, eight pieces, each...	.60
12	Feed Box .....	6.00	36	Adj. Set Screw for Small Rolls, four pcs., each	.60
13	Guide Knife .....	1.50	37	Bolts for attaching housing to base, four pcs., each .....	.60
14	Small Roll Gear, two pieces, each.....	4.80	38	Large Roll Scraper Rod.....	.50
14 C	Lever Cap .....	4.25	39	Small Roll Scraper Rod.....	.50
15	Adjusting Screw for Scraper Lever, two pieces, each .....	.20	40	Special Gib Key for Large Roll Spur Gear...	2.00
20	Large Roll Scraper.....	1.50	41	Special Gib Key for Small Roll Spur Gear...	1.50
21	Small Roll Scraper .....	1.00	42	Turn Plate Bar.....	.40
22	Movable Juice Guard.....	1.50	44	Top Bearing and Caps Combined.....	24.00
23	Bagasse Discharge Chute.....	7.20	45	Cover for Top and Bottom Bearings of Upright Shaft, two pieces, each.....	1.00
24	Small Roll Journal Box, four pieces, each...	1.80	46	Bevel Gear and Pinion Cover.....	2.50
25	Side Housing Cap, four pieces, each.....	2.30	47	Large Bevel Gear (specify number teeth wanted) .....	13.00
			48	Small Bevel Gear (specify number teeth wanted) .....	8.50
			49	Upright Shaft .....	12.00

# Goldens' NEW MODEL Horizontal Steam Power Three-Roller Cane Mills.



SELF-CONTAINED, WITH SELF-OILING BEARINGS.

(PATENTED)

THE MILL is extra heavy and is designed somewhat after the lines of large mills used in sugar manufacturing plants. The smallest size mill has an approximate capacity of 150 gallons per hour, while the largest has an approximate capacity of 600, and require approximately 5, 7, 10, 20 and 30 H. P. for the five sizes.

## BED PLATE.

The Bed Plate is massive and supports the housings, rolls, gears, driving pulleys, etc., and is machined where housings rest on same, making a rigid, self-contained mill, which once set up ready for running at our shops, remains so and can be shipped anywhere and started up without the trouble usually experienced where the mill and driving gear have separate supports. One heretofore objectionable feature in other power mills has been the exposed gearing, which allows dirt and dust to accumulate in the gearing, making them wear fast, and dangerous



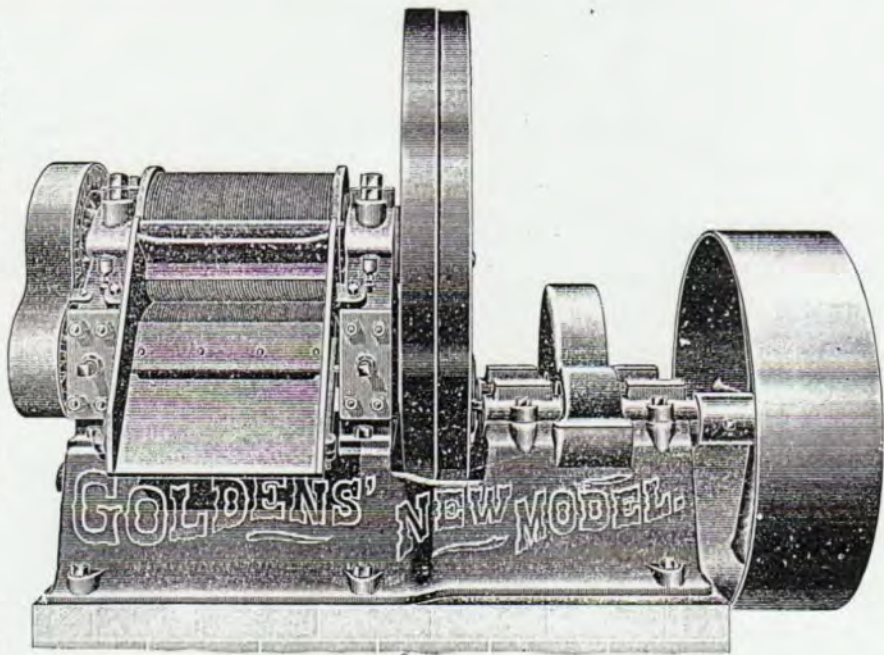
to operate. This feature we remedy by using a system of gearing enclosed in gear covers, except the large gear, which being an internal gear makes its own guard besides making a close, compact and safe mill to operate.

### HOUSINGS OR UPRIGHTS

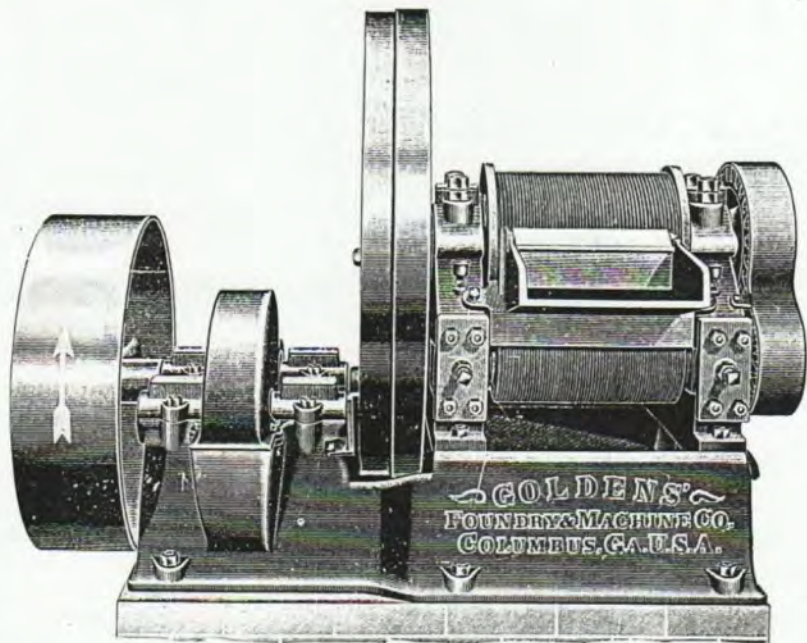
Are heavy and machined top and bottom, and also the roll journal caps. They are tied with horizontal and vertical bolts.

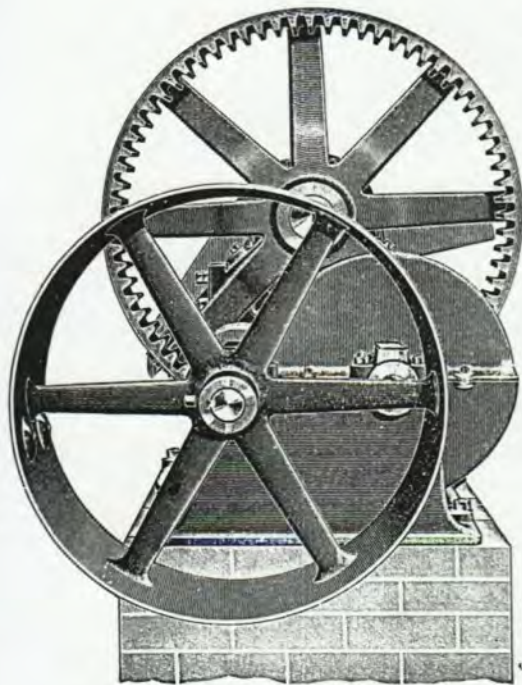
### ROLLS.

The Rolls are relatively longer than mills with the same



diameter, thus giving greater capacity. The large roll shell is extra heavy with extra large journals resting in babbitted boxes or bearings, while the small rolls are solid, with extra large journals in babbitted bearings. All the rolls are grooved, and their journal boxes have horizontal screw adjustment. The first small roll can be adjusted to give any opening desired from  $\frac{1}{4}$ " up to  $\frac{1}{2}$ " between the first feed roll and the large roll, there always being  $\frac{1}{4}$ " opening when roll driving gears are in proper position, as the first small roll is  $\frac{1}{2}$ " smaller in diameter than the pitch circle of its driving gear. The second small roll is the same diameter as the pitch circle of the gear driving roll, and is always





screwed tightly against the face of large roll. This arrangement brings the gear in proper working position when feed roll is set out from large roll.

### REVERSIBLE FEED.

By changing the position of the first and second feed rolls, and changing feed box and discharge chute to opposite sides, the mill may be fed from opposite side, thus enabling the operator to put mill in any desired position, avoiding using crossed belt for driving, if desirable.

### GUIDE KNIFE OR TURNPLATE.

The Guide Knife is self-adjusting whichever side the mill is fed from without regard to the adjustment of the rolls, and can be removed through gear teeth by removing gear cover, screwing handle into knife and drawing out. To remove the plate in other mills it can only be done by taking off main roll caps and lifting large roll, gear and shaft from housings, requiring considerable power and time.

### FEED BOX.

A great deal of juice is usually lost in power mills by squirting outside of mill, above and below feed box. Our new feed box saves the juice heretofore lost by a self-adjusting guard in the top of the box in combination with a projection on the bottom of box, making it practically impossible for the juice to get outside of mill.

### DISCHARGE CHUTE.

Our New Sheet Steel Scraper is attached to the top of discharge chute, to clean the large roll, while another scraper is attached to the bottom, cleaning second small roll, this scraper being furnished with a screw adjustment for roll contact, and also leads escaping juice from discharge chute back into trough of mill.

### SELF-OILING DEVICES.

The adjustable journal boxes are supplied with oil from top of housings by Brass oil cups with wicking through tubes, while the journals for large roll and pulley and pinion shaft journals are supplied with wick oiling caps of large capacity. This self-oiling arrangement for cane mills is a new feature, not used on other mills.

### GEARING.

We use the involute style of gearing, with ample width of face for the power required throughout; this style being specially adapted for transmission where the rolls which gear drive need to be adjusted, as in the first feed roll. All gearing and driving pulley is keyed to shafts.

### SET SCREWS.

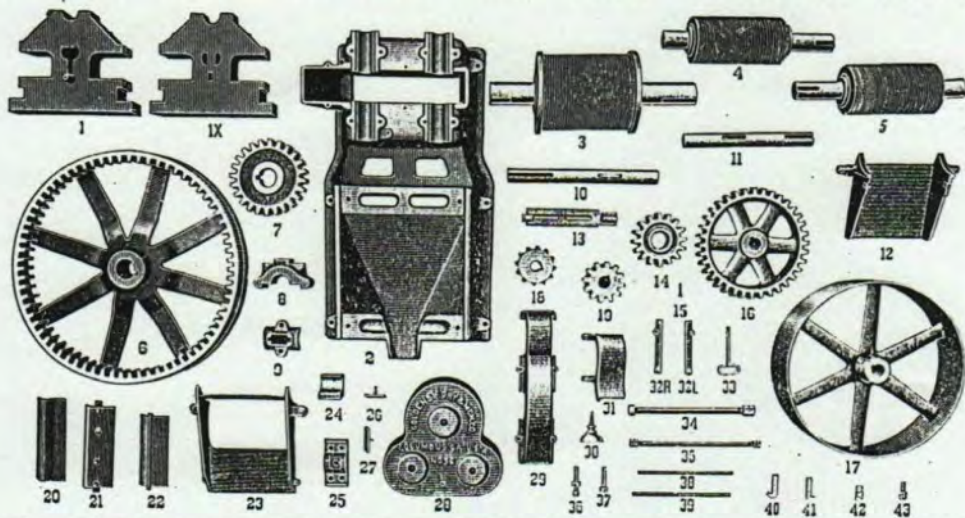
Are large and made of steel, with case hardened point, and with jamb nuts which hold the rolls in positive position.

### MACHINED SURFACES.

All surfaces that have bearings on other surfaces are machined, where necessary.

No. of Mill	Horse Power Required	Gallons of Juice Per Hour	Tons Cane 12 Hours	Diameter of Rolls			Length of Rolls	Size of Pulley	Rev. Per Minute of Pulley	Ratio of Gearing	Weight in Pounds	Price
				Large	Small	Feed Dis.						
No. 27	4 to 6	125 to 175	10 to 12	9"	5½"	6"	12"	24" x 6½"	175	16 to 1	1,650	\$ 175.00
No. 36	6 to 8	175 to 225	15 to 20	12	7½"	8	15	30 x 8½"	145	18 to 1	2,750	275.00
No. 45	8 to 12	225 to 325	20 to 30	15	9½"	10	20	40 x 8½"	135	19 to 1	4,700	450.00
No. 54	15 to 20	400 to 550	35 to 50	18	11½"	12	25	48 x 10½"	125	19 to 1	7,900	750.00
No. 63	25 to 30	550 to 650	50 to 60	21	13½"	14	30	56 x 12½"	100	20 to 1	13,000	1,350.00

PARTS OF  
**Goldens' NEW MODEL Horizontal Steam Power Three-Roller Cane Mills.**



Order by Letters and Numbers and state "for Goldens' NEW MODEL Horizontal Steam Power Three-Roller Mill," and Give Number of Mill.

See pages 44 and 45 for repair pieces.

PARTS OF

Goldens' NEW MODEL Horizontal Steam Power Three-Roller Cane Mills.

[See cuts on page 43.]

No. of Cut	Name of piece	No. 27 Mill	No. 30 Mill	No. 45 Mill	No. 54 Mill	No. 63 Mill
1	R. H. Housing	\$18.00	\$24.20	\$ 39.00	\$ 63.50	\$119.00
1 X	L. H. Housing	18.00	24.20	39.00	63.50	119.00
2	Base	48.00	75.50	112.70	163.00	236.00
3	Large Roll	30.00	49.50	94.00	160.00	272.00
4	First Small Roll	20.00	38.40	74.00	130.00	230.00
5	Second Small Roll	20.00	38.40	74.00	130.00	230.00
6	Internal Gear	37.00	57.30	99.50	147.50	236.00
7	Large Roll Plain Spur Gear	7.00	10.50	17.75	30.00	50.00
8	Cap for Large Roll, two pieces, each	4.00	5.00	7.30	12.25	20.00
9	Cap for Bedplate Housing, four pieces, each	2.10	2.70	3.75	5.50	8.00
10	Pulley Shaft with two Keys	4.50	5.50	7.00	8.60	10.60
11	Pinion Shaft with two Keys	4.50	5.00	6.50	9.20	13.00
12	Feed Box	6.00	9.50	13.30	21.20	34.00
13	Guide Knife	1.50	2.70	4.20	9.00	19.35
14	Small Roll Gear, two pieces, each	4.80	7.00	11.00	16.00	23.20
15	Adjusting Screw for Scraper Lever, two pieces, each	.20	.40	.60	.80	1.10
16	Spur Gear on Pinion Shaft	10.00	13.50	18.60	34.50	63.85
17	Driving Pulley	12.00	19.00	31.40	46.00	67.25
18	Double Shrouded Pinion	4.80	6.70	10.60	17.00	27.00
19	Single Shrouded Pinion	5.00	6.80	9.60	14.50	21.90
20	Large Roll Scraper	1.50	2.00	3.00	4.50	6.75
21	Small Roll Scraper	1.00	1.50	2.50	4.00	6.40
22	Movable Juice Guard	1.50	1.80	3.30	9.80	29.00
23	Bagasse Discharge Chute	7.20	9.60	13.40	20.60	31.50
24	Small Roll Journal Box, four pieces, each	1.80	2.20	3.30	6.85	14.20
25	Side Housing Cap, four pieces, each	2.30	2.60	3.80	6.00	9.60
26	Oil Cover for Large Roll Cap, two pieces, each	.20	.40	.60	.80	1.10
27	Oil Cover for Bed Plate, four pieces, each	.20	.40	.60	.80	1.10

See cuts on page 43.

PARTS OF

Goldens' NEW MODEL Horizontal Steam Power Three-Roller Cane Mills.

(Continued)

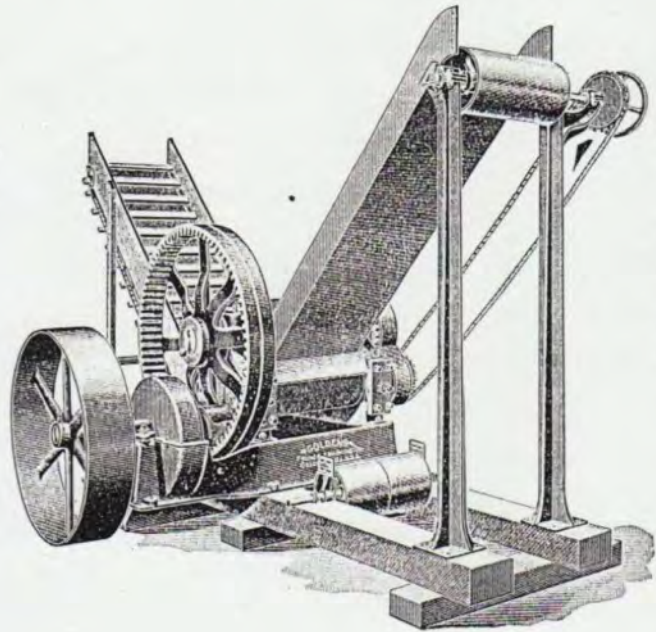
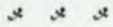
No. of Cut	Name of Piece	No. 27 Mill	No. 36 Mill	No. 45 Mill	No. 64 Mill	No. 63 Mill
28	Triple Gear Guard.....	\$ 6.00	\$ 9.70	\$14.00	\$26.60	\$50.50
29	Double Gear Guard .....	8.00	8.60	12.80	21.75	37.00
30	Oil Can .....	.50	.50	.50	.50	.50
31	Gear Guard for Internal Gear and Pinion.....	1.70	2.00	2.50	4.00	6.40
32R	R. H. Adj. Lever for Small Roll Scraper.....	.50	.60	.70	.80	.95
32L	L. H. Adj. Lever for Small Roll Scraper.....	.50	.60	.70	.80	.95
33	Guide Knife Handle.....	1.00	1.50	2.30	3.50	5.30
34	Vertical Frame Bolts or Studs, four pieces, each....	.60	.80	1.20	1.60	2.15
35	Horizontal Frame Bolts or Studs, eight pieces, each..	.60	.80	1.10	1.30	1.50
36	Adj. Set Screw for Small Rolls, four pieces, each....	.60	.80	1.00	1.20	1.40
37	StudBolts for attaching housing to base, four pcs. each	.60	.80	1.00	1.20	1.40
38	Large Roll Scraper Rod.....	.50	.70	1.00	1.30	1.50
39	Small Roll Scraper Rod.....	.50	.70	1.00	1.30	1.50
40	Special Gib Key for Large Roll Spur Gear.....	2.00	2.50	3.50	5.00	7.15
41	Special Gib Key for Small Roll Spur Gear.....	1.50	2.00	2.80	4.00	5.75
42	Turn Plate Bar .....	.40	.50	.60	.80	1.10
43	Stud for Bed Plate Cap, eight pieces, each.....	.60	.70	1.00	1.50	2.25
Extra Pieces Not Numbered, Being Standard:						
4	Brass Oil Cups, each.....	.50	.50	.70	.80	.95
4	Cap Bolts for Feed and Discharge Boxes, each.....	.30	.40	.50	.70	.95
2	Cap Bolts for Triple Gear Guard, each.....	.20	.30	.40	.60	.90
2	Cap Bolts for Internal Gear Guard, each.....	.20	.30	.40	.60	.90
4	Cap Bolts for Double Gear Guard, each.....	.20	.30	.40	.60	.90
1	Cap Bolt for Triple Gear Guard.....	.50	.60	.75	.90	1.10

See cuts on page 43.

**No. 63 MILL.**

Price page 42. Price does not include Feed Carrier and Bagasse Carrier shown in cut. For price on these see page 47.

Having had calls for a larger mill than our No. 54, we have gotten up patterns for our No. 63 mill shown on this page. This mill is made in the same way and of the same design as our Nos. 27, 36, 45 and 54, which are described on pages 38 to 42.

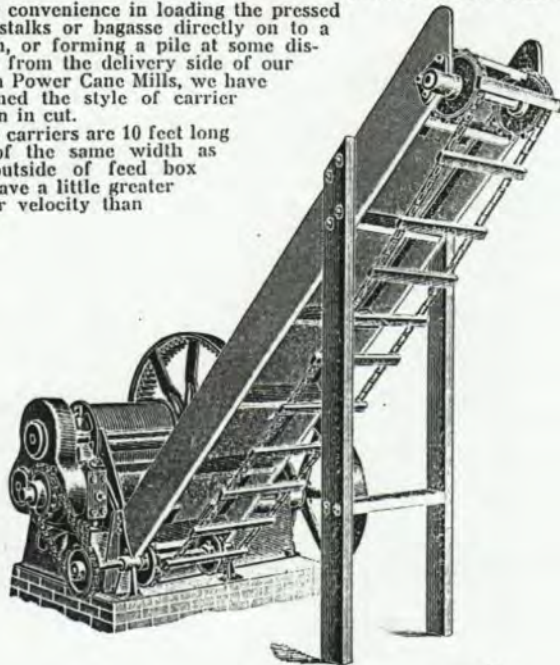




### BAGASSE CARRIER FOR STEAM POWER CANE MILLS.

For convenience in loading the pressed cane stalks or bagasse directly on to a wagon, or forming a pile at some distance from the delivery side of our Steam Power Cane Mills, we have designed the style of carrier shown in cut.

The carriers are 10 feet long and of the same width as the outside of feed box and have a little greater linear velocity than rolls.



Our Standard No. 27 and No. 36 Mills are not made with small Roller Shaft extended for sprocket for driving Bagasse Carrier, as Mills being small we think Bagasse Carriers are not needed.

For customers wishing No. 27 or 36 Mill made special with shaft extended, we are willing to make same.

#### Net Prices to be Added to Price of Mill.

- For extending small shaft, No. 27 Mill...\$ 3.00
- For extending small shaft, No. 36 Mill.... 3.50
- Extra charge for drive sprocket if wanted.

---

#### LIST PRICE FOR BAGASSE CARRIER.

(Including driving sprocket and chain.)

- 10' Carrier complete for No. 27 Mill.....\$ 85.00
- 10' Carrier complete for No. 36 Mill..... 105.00
- 10' Bagasse Carrier complete for No. 45 Mill 125.00
- 10' Bagasse Carrier complete for No. 54 Mill 145.00
- 10' Bagasse Carrier complete for No. 63 Mill 180.00
- Iron Trough Feed Carrier for No. 63 Mill as shown in cut on page 46—without belt... 390.00

# GOLDENS' PATENTED GOLDEN-COOK EVAPORATORS.

THE ordinary style Cook Evaporator is made with 18" sections, with a length equal to the width of pan, and one section is connected to another by simply turning the top of one section over another as shown in Figure 1.

Three rods are generally used to tie pan together, without regard to length of pan, one rod in center near a joint as in Figure 1, and one at each end, none of which rods support the sections, which have a tendency to sag in the middle, the whole making a cheap as well as poor construction.

In the Golden-Cook Patented Evaporator (see cut on opposite page) the patented connection is constructed as shown in Figure 2. A, being one section to be connected to section C, by clip or thimble D, as shown connected at B.

The rod E supports both sections and clip, passing through side of pan as shown in Figure 3, and in connection with clip or thimble D, between wooden sides of pan, holds pan rigidly at top, while the bottom of pan is securely nailed to side in the usual maner, as shown in figure 3.

In addition to making a stronger, neater joint at the joining of all sections EVERY section has a tie rod, as well as rods at each end of pan.

This gives a much stiffer, more durable pan in all sizes than the old pans, being proportionately stiffer as length of pan increases.



FIG. 1.  
OLD STYLE  
CONNECTION

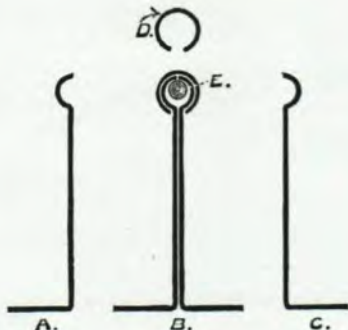


FIG. 2.  
GOLDENS' PATENTED .06  
CONNECTION.

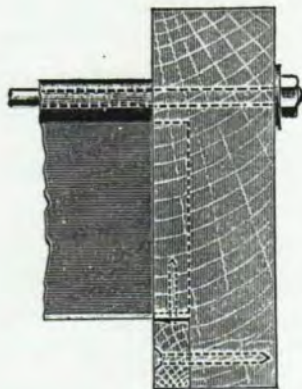


FIG. 3.



Showing Cross-Section of Pan.

While most other manufacturers bend the sections by hand, our sections are made entirely by machinery, which gives a better and more uniform pan throughout. Instead of being bolted together at each end and the middle only, our pans have a rod bolt at the joint of all sections (18 inches apart) as well as rod bolts at each end of pan. Two Copper Skimmers are furnished with each Copper Pan, and two Tin Skimmers with each Galvanized Pan. See following page for Price List.

51

# GOLDEN-COOK EVAPORATORS.

MADE OF GALVANIZED IRON AND COPPER.

(PATENTED)



The Golden-Cook Evaporator, while similar to the Cook model in general, is better and stronger, and is not equaled by any on the market.

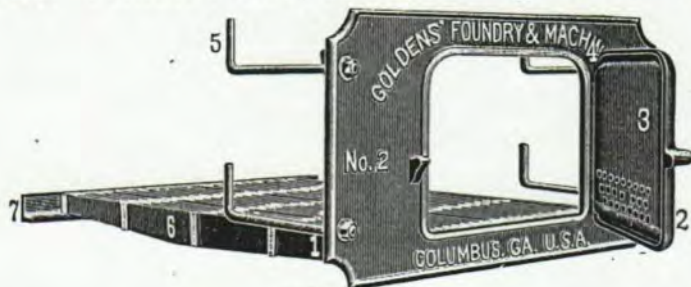
## PRICE LIST GOLDEN-COOK EVAPORATORS.

No.	Size In Inches	Capacity, Gallons per Day	Weight Copper Pans	Weight Galvanized Pans	No. and Approximate Weight of Slats Necessary to Strip in Accordance with Sou. Class. No. 39.		
					Number	Weight	
2	44 x 72	35 to 50	74	62	14	23 lbs.	Weight of Slats to be added to Weight of Pan when Necessary to put them on.
3	44 x 90	50 to 75	84	78	16	28 lbs.	
4	44 x 108	65 to 100	100	92	19	31 lbs.	
5	44 x 126	80 to 125	118	109	22	36 lbs.	
6	44 x 144	100 to 175	135	128	25	40 lbs.	
7	44 x 180	125 to 200	170	150	31	49 lbs.	

**Note**—With each Copper Evaporator is furnished two Copper Skimmers and with each Galvanized Evaporator is furnished two Tin Skimmers.

If Evaporator is ordered and kind of metal not specified, we always ship Galvanized Evaporator.

# Evaporator Furnace Fronts, Grates, Bearing Bar and Anchors.



## PRICE LIST.

No.	Size of Fronts		Size of Door Opening		Size of Grates		No. of Bars	Total Weight	Price Complete with Grate Bars	Price Complete without Grate Bars
	Height	Length	Height	Length	Width	Length				
1	15"	26½"	10"	12"	20"	30"	5	180	\$14.00	\$ 7.50
2	16	30½"	11	15	24	36	6	245	19.00	9.00
3	18	35½"	12	18	28	42	7	343	27.00	12.00

## EVAPORATOR GRATE BARS



## PRICE LIST.

Length	Width	Depth	Openings	Weight	Price
30"	4"	2½"	¾"	21	\$1.65
36	4	2½"	¾"	26	2.05
42	4	2½"	¾"	32	2.60

## BACK PLATE (With Collar for Pipe)

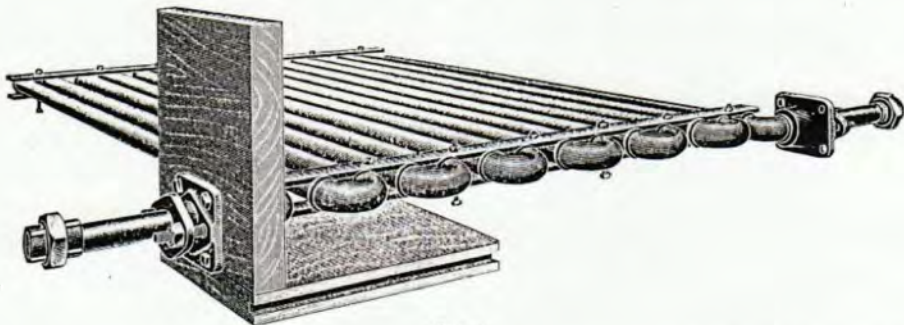


Price, \$3.25.

Weight 40 pounds.

# Section for Goldens' Improved Steam Evaporator No. 1.

1" PIPE.



Cut A.

The above cut shows a section for our No. 1 Steam Evaporator, composed of 1" Galvanized Iron Pipe and Fittings.

These sections are made up in lengths of 4', 5', 6', 7', 8', 10', 12' and 14', all 39½" wide to elbows that bear against stuffing boxes.

In this style Evaporator connections are made for inlet and outlet for waste pipe or collector and for inlet valves to control steam.

The following articles compose a section, 14 pieces 1" Galvanized Pipe, 13—1" Galvanized Return Bends, 2—1" Galvanized Elbows, 2—1" Unions, 2—1" Nipples 7½" long, 2 Stuffing Boxes with Glands and Studs, 4 Galvanized Iron Straps and Bolts, and 8—¾"x2" Lag Screws.

☛ For Price List see opposite page.

# Price List of One Inch Single Pipe Sections as Shown on Opposite Page

## AND PRICE AND SIZE OF POPLAR EVAPORATOR BOX.

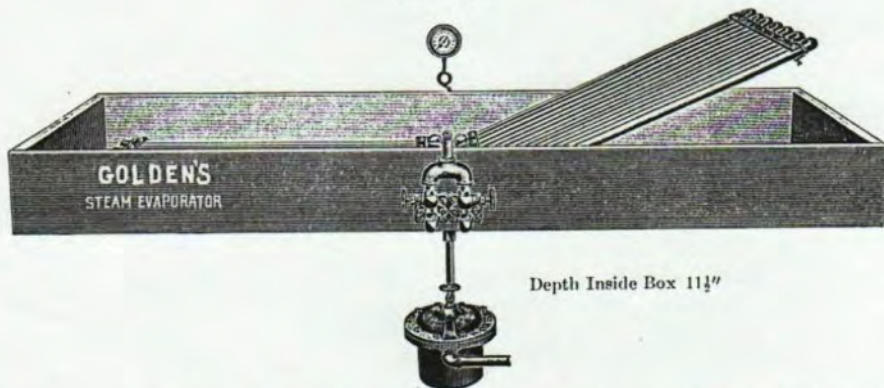
Size of Box	Holds Standard Sections of Pipe	Price of Poplar Evaporator Box only	Length of Sections	Price of Pipe Sections Complete without Evaporator Box	Price of Pipe Sections Complete with Extra Valves and Evaporator Box	Price of Pipe Sections Complete with Extra Valves and Evaporator Box Bottom Lined with Galvanized Iron	Price of Pipe Sections Complete with Extra Valves and Evaporator Box Bottom Lined with Copper
5' x 44"	4' 0"	\$25.00	4' 0"	\$43.00	\$ 71.00	\$ 79.00	\$ 94.00
6 x 44	5 0	30.00	5 0	44.25	77.25	86.25	105.25
7 x 44	6 0	35.00	6 0	45.50	83.50	94.00	116.50
8 x 44	7 0	40.00	7 0	47.00	90.00	102.00	128.00
9 x 44	8 0	45.00	8 0	48.50	96.50	110.50	140.50
11 x 44	10 0	55.00	10 0	52.00	110.00	127.00	163.00
13 x 44	12 0	65.00	12 0	56.00	124.00	144.00	187.00
15 x 44	14 0	75.00	14 0	60.00	138.00	161.00	210.00

Add for Collector and Fittings, if wanted..... \$45.00  
 Add for Steam Gage and Fittings, if wanted ..... 7.00  
 Add for Saccharometer, if wanted..... 2.00

The above price list includes the straps, bolts, lag screws, pipe, return bends, elbows, nipples, unions, and stuffing boxes complete, as shown in Cut A, and enumerated on page 52. These sections are used in making Steam Evaporators containing one section only, or two sections as desired. If single section Evaporator, as shown in Cut A, is wanted, or complete in poplar box with Fittings and Collector, price would be as above.

# GOLDENS' IMPROVED STEAM EVAPORATOR No. 1. TWO SECTIONS.

1" PIPE.



Depth Inside Box 11½"

Where an Evaporator of greater capacity than the one shown on the preceding page is desired, we make an Evaporator composed of two sections, each section being independent of the other; section located 5" on center of trunions. With this style of Evaporator the operator can boil a part of the juice if he so desires, or all of it at one time. This style Evaporator can be made up in any length by using two standard sections. Each section includes the fittings given for a single section. This Evaporator can be used either with or without the collector shown in cut.

☛ For price see page 55.



# Price List of Two One Inch Single Pipe Sections as Shown on Opposite Page AND PRICE AND SIZE OF POPLAR EVAPORATOR BOX.

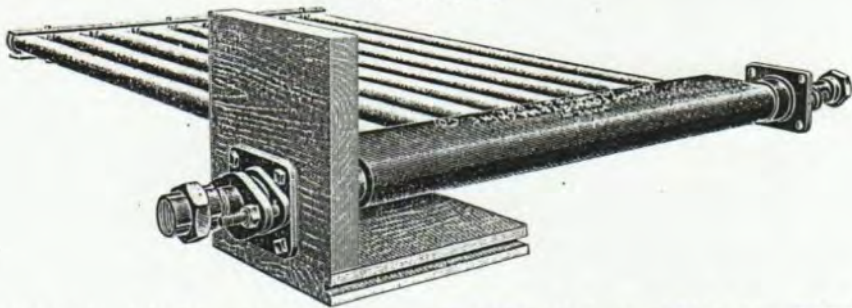
Size of Box	Holds Two Sections of Pipe	Price of Poplar Evaporator Box only	Length of Each Section	Price of Two Pipe Sections complete, without Evaporator Box	Price of Two Pipe Sections complete with Extra Valves and Evaporator Box	Price of Two Pipe Sections complete with Extra Valves and Evaporator Box. Bottom Lined with Galvanized Iron	Price of Two Pipe Sections Complete with Extra Valves and Evaporator Box. Bottom Lined with Copper
9' x 44"	4' 0" Each	\$45.00	4' 0"	\$86.00	\$138.00	\$152.00	\$182.00
11 x 44	5 0 "	55.00	5 0	88.50	150.50	167.50	203.50
13 x 44	6 0 "	65.00	6 0	91.00	163.00	183.00	226.00
15 x 44	7 0 "	75.00	7 0	94.00	176.00	199.00	248.00

Add for Collector and Fittings, if wanted. ....	\$45.00
Add for Steam Gage and Fittings, if wanted.....	7.00
Add for Saccharometer, if wanted.....	2.00

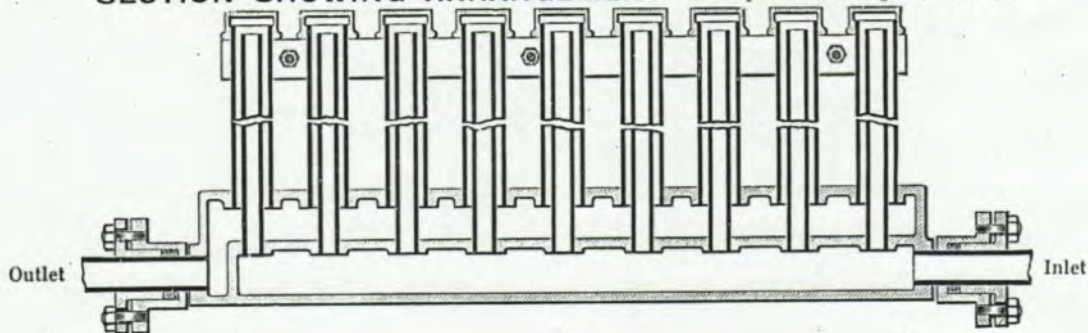
## OPERATION OF No. 1 STEAM EVAPORATOR.

The regulation of heat in this Evaporator is effected by control of the steam at the inlet, and by opening the valves wider or closing them, more or less heat can be obtained. The piping of this Evaporator is connected with plain return bends, and the steam that is admitted at the inlet traverses the entire length of each pipe of the section. When first starting up the Evaporator it is well to turn in just enough steam to heat the juice without boiling for when the juice becomes heated the scum rises to the top, and if it is not allowed to boil the scum can be easily removed with skimmers, which we furnish with the Evaporator. After all the skum has been removed then turn on steam sufficient to boil the juice as much as necessary. One advantage the Steam Evaporator has over old style fired Evaporator, is there is no danger of burning or scorching the juice as long as pipes are well covered. Should this occur it ruins the syrup.

# Section of Goldens' Improved Steam Evaporator No. 1 1/2. 1 1/2" PIPE.



## SECTION SHOWING ARRANGEMENT OF 3/4" AND 1 1/2" PIPES.



# Price List of 1½ inch Single Section as Shown on Opposite Page.

AND

## PRICE AND SIZE OF POPLAR EVAPORATOR BOX.

Size of Box	Holds Standard Section of Pipe	Price of Poplar Evaporator Box only	Length of Section	Price of Pipe Sections Complete without Evaporator Box	Price of Pipe Sections Complete with Extra Valves and Evaporator Box	Price of Pipe Sections Complete with Extra Valves and Evaporator Box. Bottom Lined with Galvanized Iron	Price of Pipe Sections Complete with Extra Valves and Evaporator Box. Bottom Lined with Copper
5' x 44"	4' 0"	\$25.00	4' 0"	\$65.00	\$ 97.00	\$105.00	\$120.00
6 x 44	5 0	30.00	5 0	68.25	105.25	114.25	133.25
7 x 44	6 0	35.00	6 0	71.50	113.50	124.00	146.50
8 x 44	7 0	40.00	7 0	74.75	121.75	133.75	159.75
9 x 44	8 0	45.00	8 0	78.00	130.00	144.00	174.00
11 x 44	10 0	55.00	10 0	84.50	146.50	163.50	199.50
13 x 44	12 0	65.00	12 0	91.00	163.00	183.00	226.00
15 x 44	14 0	75.00	14 0	97.50	179.50	202.50	251.50

Add for Collector and Fittings, if wanted..... \$55.00

Add for Steam Gage and Fittings, if wanted..... 7.00

Add for Saccharometer, if wanted..... 2.00

This Evaporator is of very different construction from our No. 1 Evaporator, as will be noted. Each section consists of a Cast Iron Manifold with nine 1½" Galvanized pipes, and inside of each Galvanized pipe there is a ¾" black pipe running nearly the full length of the larger pipe. Steam is admitted into the manifold and conveyed through the ¾" pipe nearly to the end of the large pipe, then returning on inside of large pipe and over the hot ¾" pipe reduces condensation to a minimum and gives more uniform heat. These sections are made up in lengths of 4', 5', 6', 7', 8', 9', 10', 11' and 12', all 40" wide. Connections are made for inlet or outlet and to waste pipe, or to Collector and waste pipe, with valves to control steam.

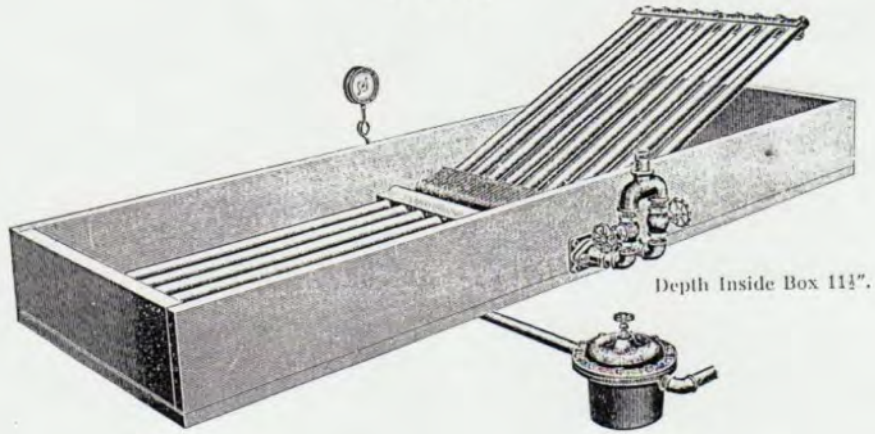
The following articles compose a section: 9 pieces 1½" Galvanized pipe, 9 pieces ¾" Black pipe (inside 1½" pipe), 2 short pieces Galvanized pipe for Trunions, 9—1½" Galvanized caps, 1 Cast Iron Manifold, 2 Galvanized iron straps and bolts, 2—1½" Stuffing Boxes and Glands, complete with 8 Lag Screws to Bolt Stuffing Box to Evaporator, 2—1½" Unions.

59

# GOLDENS' IMPROVED STEAM EVAPORATOR No. 1½.

## TWO SECTIONS.

1½" PIPE.



Depth Inside Box 11¼".

This Evaporator is composed of two sections, each section being similar to the one described on the preceding page. Each section is pivoted on a trunion and can be easily raised to allow the Evaporator to be cleaned. These Evaporators can be used with or without the collector shown in cut. Evaporators can be made any length desired by using two sections the proper length.

# Price List of Two 1½ Inch Double Pipe Sections as Shown on Opposite Page

60

AND

## PRICE AND SIZE OF POPLAR EVAPORATOR BOX.

Size of Box	Holds Two Sections of Pipe	Price of Poplar Evaporator Box only	Length of each Section	Price of Two Pipe Sections Complete without Evaporator Box	Price of Two Pipe Sections Complete with Extra Valves and Evaporator Box	Price of Two Pipe Sections Complete with Extra Valves and Evaporator Box, Bottom Lined with Galvanized Iron	Price of Two Pipe Sections Complete with Extra Valves and Evaporator Box, Bottom Lined with Copper
9' x 44"	4' 0" Each	\$45.00	4' 0"	\$130.00	\$189.00	\$203.00	\$233.00
11 x 44	5 0 "	55.00	5 0	136.50	205.50	222.50	258.50
13 x 44	6 0 "	65.00	6 0	143.00	222.00	242.00	285.00
15 x 44	7 0 "	75.00	7 0	149.50	238.50	261.50	310.50

Add for Collector and Fittings, if wanted..... \$55.00  
 Add for Steam Gage and Fittings, if wanted..... 7.00  
 Add for Saccharometer, if wanted ..... 2.00

## SACCHAROMETER.

This is a delicate instrument, consisting of a weighted bulb and a stem five or six inches long, so graduated as to indicate in figures the strength or density in any solution, according to the scale suggested by Mr. Baume. It is used by dropping it into a deep test cup, containing liquid to be tested. It will sink to a certain point and there remain at rest. The number of degrees of the scale which appear above the surface of the fluid marks the density in degrees. In soft water the Saccharometer will sink to zero; in cane juice it will mark from 5 to 10 degrees, according to the richness of the juice, the higher figures indicating the richer juice; in syrup it will mark from 6 to 40 degrees. Boiling hot juice will show from 2 to 3 degrees less than cold juice, and boiling hot syrup about 4 degrees less density than when cold. The temperature for which the scale is graduated is 60 degrees.

## OPERATION OF No. 1½ STEAM EVAPORATOR.

THE control of heat in this Evaporator is effected in the same manner as in the No. 1 Evaporator, that is by valves located at the inlet. The arrangement of the piping in this Evaporator is very different from our No. 1. The steam is admitted into a manifold having nine outlets. This Manifold has two sections—the inner section into which the steam is admitted has ¾" outlets; and the outer section which carries the steam to the outlet, has 1½" openings. The ¾" openings are in line with the 1½" openings so that when fitted up, the ¾" pipe is inside the 1½" pipe. The steam is conveyed through the ¾" pipe nearly to the end of the 1½" pipe and then returns on the outside of the small pipe and inside the large pipe. The large pipe being in contact with the cold juice, has a tendency to condense the steam, but the ¾" pipe, over which the steam passes, being very hot, counteracts, in a great measure, the effect of the cold pipe and reduces loss by condensation to a minimum. The pipe in contact with the juice being larger than the other Evaporator, gives a greater heating surface, giving quicker results.

Care should be used in starting operation, not to boil the juice before the scum is all taken off. By heating the juice, without boiling, the scum rises to the top and can be easily removed with skimmers which we furnish. Be very careful to have ample juice in box, so when boiled to syrup pipe coils will be well covered by finished syrup. If coils are not well covered syrup will burn.

# GOLDENS' CONDENSED STEAM COLLECTOR.



These Collectors are made in two sizes, No. 1 for the No. 1 Steam Evaporator, and No. 1½ for the No. 1½ Steam Evaporator. The object of this Collector is to discharge the water condensed from the steam, and at the same time retain the live steam in the pipes. By using these Collectors in connection with the Steam Evaporators, a more uniform heat is obtained, the efficiency of the Evaporator is increased, and the fuel consumption is reduced. Detailed description will be found on the next page.

No. 1, for 1" pipe.....	\$37.50
No. 1½, for 1½" pipe.....	50.00

## OPERATION OF GOLDENS' CONDENSED STEAM COLLECTOR.

THE Collector consists of a cast-iron pot with two holes near the top—one connects to discharge from Evaporator and the other is for waste pipe discharging water from Collector. There is a plug in bottom of Collector for draining. The cap is securely bolted to the bottom with rubber packing ring between, making a water and steam tight joint. In the center of Cap a guide tube is screwed, with an opening in the center connecting with hole in Cap which leads to outlet. A valve slides up and down in the guide tube, to the bottom of which is bolted a float with open top. In the operation of the Collector, the bottom is partially filled with water, to bring valve stem in guide tube up against seat at top, which prevents steam or water from passing from inlet to outlet. As the condensed water runs into the Collector ahead of the steam, it gradually fills up bottom above the level of top of float and runs into the float. This causes the float to sink lower, opening the valve at the top of guide tube and allowing the steam behind the water to force the water out through this valve. When a sufficient amount of water has been thus forced out to cause the float to rise again, it automatically closes the valve and prevents the escape of steam. This operation is repeated automatically as often as enough water collects to cause float to sink. The valve in the Cap is a by-pass, and is kept closed during the operation of the Collector. The object of this valve is to blow any obstruction out of waste pipe by direct steam pressure and does not affect the working of the Collector.

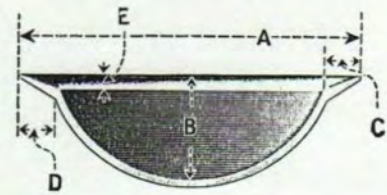


# KETTLES.



New York Pattern.

## GENERAL DIMENSIONS



## PRICE LIST OF KETTLES.

No.	Capacity	Weight	Price
0	30 Gallons	120	\$ 9.00
1	40 Gallons	160	11.00
1½	50 Gallons	240	13.00
2	60 Gallons	290	15.00
3	80 Gallons	380	20.00
4	100 Gallons	420	25.00

Capacity	A	B	C	D	E
30 Gallons	3' 4"	..13½"	..4"	..3"	..1½"
40 Gallons	..3 8½"	..14½"	..4½"	..3½"	..1½"
50 Gallons	..4 0½"	..14½"	..4½"	..3½"	..1½"
60 Gallons	..4 3½"	..15½"	..4½"	..3½"	..1½"
80 Gallons	..4 8½"	..16½"	..4½"	..3½"	..1½"
100 Gallons	..5 0½"	..17½"	..5"	..4"	..1½"

Our Kettles are of the New York Pattern, and are good, smooth and sound Castings, and hold full capacity in gallons as listed.

# STANDARD GRATE BARS.

65

No. 8—TWO FINGER BAR.



Width 21 in.

Opening  $\frac{1}{2}$  in.

No. 9—FIVE FINGER BAR.



Width 6 in.

Openings  $\frac{1}{2}$  in.

No. 10.—FISH-GILL BAR.



Width 6 in.

Openings  $\frac{1}{2}$  in.

PRICE LIST ON OPPOSITE PAGE.

# PRICE LIST STANDARD GRATE BARS.

## No. 8—TWO FINGER BARS.

Length	Width	Depth	Openings	Wt.	Price	Length	Width	Depth	Openings	Wt.	Price
3 ft. 0 in.....	2½ in.	4½ in.	⅜ in.	38	\$2.30	5 ft. 0 in.....	2½ in.	5 in.	⅜ in.	71	\$4.25
3 ft. 6 in.....	2½ in.	4½ in.	⅜ in.	41	2.45	5 ft. 6 in.....	2½ in.	5½ in.	⅜ in.	83	5.00
4 ft. 0 in.....	2½ in.	4½ in.	⅜ in.	52	3.10	6 ft. 0 in.....	2½ in.	6 in.	⅜ in.	101	6.05
4 ft. 6 in.....	2½ in.	4½ in.	⅜ in.	60	3.60						

## No. 9—FIVE FINGER BARS.

Length	Width	Depth	Openings	Wt.	Price	Length	Width	Depth	Openings	Wt.	Price
2 ft. 6 in.....	6 in.	5 in.	⅜ in.	54	\$3.25	4 ft. 0 in.....	6 in.	5 in.	⅜ in.	84	\$5.05
3 ft. 0 in.....	6 in.	5 in.	⅜ in.	63	3.80	4 ft. 6 in.....	6 in.	5 in.	⅜ in.	99	5.95
3 ft. 6 in.....	6 in.	5 in.	⅜ in.	68	4.10	5 ft. 0 in.....	6 in.	5 in.	⅜ in.	112	6.70

## No. 10—FISH-GILL BARS.

Length	Width	Depth	Openings	Wt.	Price	Length	Width	Depth	Openings	Wt.	Price
2 ft. 6 in.....	6 in.	5 in.	⅜ in.	56	\$3.25	4 ft. 6 in.....	6 in.	5½ in.	⅜ in.	108	\$6.50
3 ft. 0 in.....	6 in.	5 in.	⅜ in.	67	4.00	5 ft. 0 in.....	6 in.	6 in.	⅜ in.	121	7.25
3 ft. 4 in.....	6 in.	5 in.	⅜ in.	80	4.80	5 ft. 6 in.....	6 in.	6½ in.	⅜ in.	135	8.10
3 ft. 6 in.....	6 in.	5 in.	⅜ in.	84	5.05	6 ft. 0 in.....	6 in.	6½ in.	⅜ in.	153	9.20
4 ft. 0 in.....	6 in.	5½ in.	⅜ in.	96	5.75						

# SUPPLEMENT

SHOWING OUR

## VERTICAL HORSE-POWER CANE MILLS

ARRANGED WITH GEARING TO MAKE THEM BELT DRIVEN.

---

### GOLDENS' NEW MODEL COMBINATION MILL.

FOR HORSE OR STEAM POWER.

Owing to the demand for a mill with vertical rolls which can be driven by either steam or horse power, as well as a demand for suitable gearing that can be adapted to horse power mills now in use, we have designed suitable gearing to single or double gear our Three-Roller Standard Mills, pages 8 and 9, our "XX" Three-Roller Mills, pages 12 and 13, and our "XX" Two-Roller Mills, pages 24 and 25, the two latter styles being extra heavy, with brass boxes, designed especially for the harder tropical cane.

These mills can be furnished complete with wood framing as per cuts, or the mills and gearing can be furnished alone, the customer doing the framing himself. The gearing is also suitable for driving any make of mill, according to size of rolls. In ordering gearing to fit customer's mill the diameter and length of rolls, as well as the diameter of the journals, should be specified. Key-seating of journal for large gear to be done by owner of mill.

While a lighter type of single gearing is already on the market, it is not adapted to the small high speed gasoline engines so commonly used for farm purposes, nor high speed shafts, as it runs the mill too fast to extract the juice properly without wasting, or takes so small a pulley to drive it, that it is not practical.

Where the engine or driving shaft runs at the proper slow speed to give mill the right surface speed of rolls for getting the best extraction without waste of juice, the single gearing is satisfactory; otherwise the double gearing is preferable.

The double gearing is geared two and a half times as fast as the single gearing, which variation with the proper driving pulley on engine or driving shaft, makes these combination mills adapted to all ordinary conditions.

Blue prints for construction of wood work will be sent purchaser of gearing on application.

To run mills at the average proper surface speed of rolls, we recommend the following pulley diameter, face and revolutions per minute of pulley shaft:

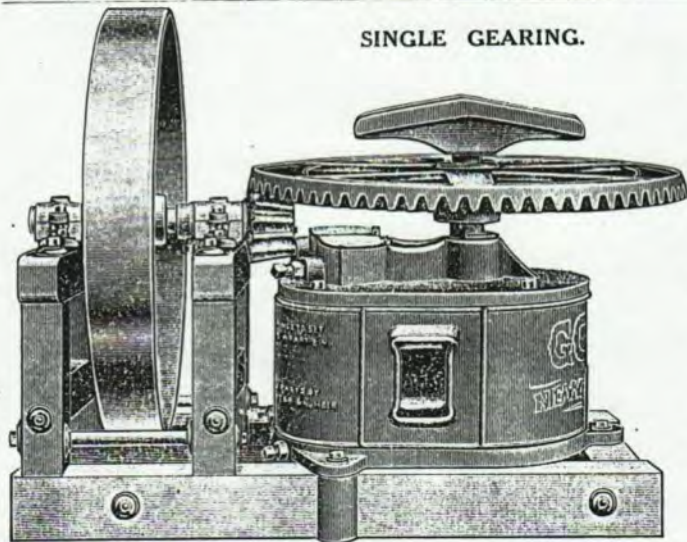
12" Rolls, Single Gearing, Pulley 30" Diameter, 6½" Face	} Pulley Shaft 50 R. P. M.
14" Rolls, Single Gearing, Pulley 36" Diameter, 7½" Face	
16" Rolls, Single Gearing, Pulley 40" Diameter, 8½" Face	
18" Rolls, Single Gearing, Pulley 44" Diameter, 10½" Face	
20" Rolls, Single Gearing, Pulley 48" Diameter, 12½" Face	
12" Rolls, Double Gearing, Pulley 30" Diameter, 6½" Face	} Pulley Shaft 125 R. P. M.
14" Rolls, Double Gearing, Pulley 36" Diameter, 7½" Face	
16" Rolls, Double Gearing, Pulley 40" Diameter, 8½" Face	
18" Rolls, Double Gearing, Pulley 44" Diameter, 10½" Face	
20" Rolls, Double Gearing, Pulley 48" Diameter, 12½" Face	

These combination mills are not intended to take the place of our regular Steam Power Mills, but are designed to fill the demand for a gearing that will permit the horse power mill to be changed to a steam power, and for this purpose they are the best combination mills upon the market, in this case we have followed our usual custom of making a heavier and stronger combination mill than our competitors.

# Goldens' Combination Mill, Adapting No. 2, No. 3 and No. 4 to Steam Power.

Number of Mill	Horse Power Required	Large Bevel Gear		Small Bevel Gear		Shaft		Size of S. B. Pulley	Rev. Per Min. Pulley Shaft	Weight	Price
		Diam.	Face	Diam.	Face	Diam.	Lgth				
2	2½ to 3½	30"	3"	6"	3"	1½"	20"	30 x 6½	} R. P. M.	952	\$114.00
3	3½ to 4½	36	3½	6	3½	1½	22	36 x 7½		1,349	155.00
4	4½ to 6	40	4	6.66	4	2¾	24	40 x 8½		1,834	200.00

## SINGLE GEARING.



Surface speed of Cane Mill Rolls should be about 27 feet per minute.

A Lever Cap is furnished as shown in cut, to allow Mills to be driven by horse power if necessary.

See pages 70 and 71 for combination single and double geared Mills, No. 2XX, No. 3XX, and No. 4XX.

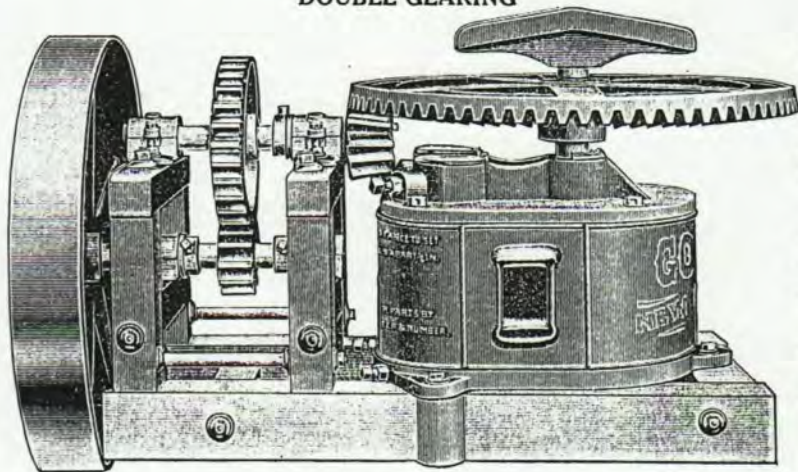
See pages 72-73 for combination single and double geared Mills, No. 18XX, and No. 20XX.

See pages 66 and 67 for description of gearing.

# Goldens' Combination Mill, Adapting Nos. 2, 3 and 4 to Steam Power.

Number of Mill	Horse Power Required	Large Bevel Gear Diam. Face		Small Bevel Gear Diam. Face		Large Spur Gear Diam. Face		Small Spur Gear Diam. Face		Top Shaft	Bottom Shaft	Size of S. R. Pulley	Rev. Per Minute Pulley Shaft	Weight	Price
2	2½ to 3½	30"	3"	6"	3"	11½"	21"	4½"	2½"	1½" x 20"	1½" x 25"	30 x 6½	} 125 R. P. M.	1,040	\$139.00
3	3½ to 4½	36	3½	6	3½	14½"	22"	5½"	3	1½" x 22	1½" x 25½	36 x 7½		1,464	187.00
4	4½ to 6	40	4	6.66	4	15½"	24"	6½"	3	2" x 24	2" x 29	40 x 8½		1,970	237.00

## DOUBLE GEARING



Surface speed of Cane Mill Rolls should be about 27 feet per minute.

A Lever Cap is furnished as shown in cut to allow Mills to be driven by horse power if necessary.

See pages 70 and 71 for Combination Single and Double Geared Mills No. 2XX, No. 3XX and No. 4XX.

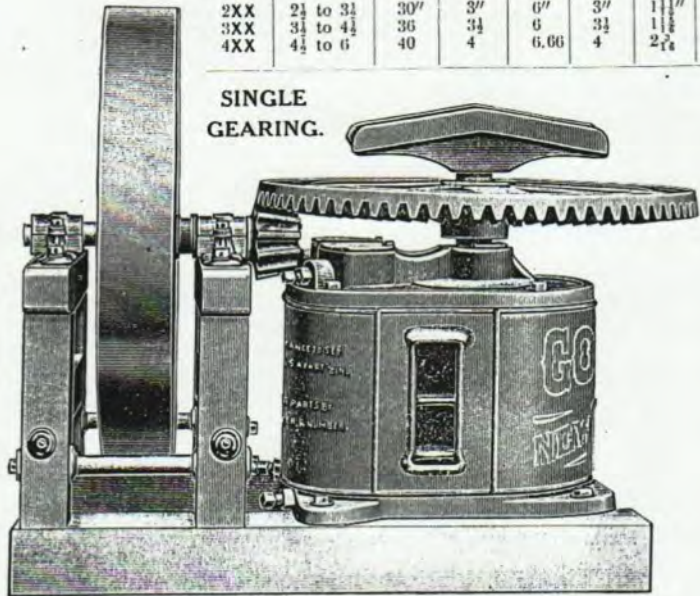
See pages 72 and 73 for Combination Single and Double Geared Mills, No. 18XX and No. 20XX.

See pages 66 and 67 for description of gearing.

# Goldens' Combination Mill, Adapting Nos. 2XX, 3XX and 4XX to Steam Power.

Number of Mill	Horse Power Required	Large Bevel Gear		Small Bevel Gear		Shaft		Size of S. B. Pulley	Rev. Per Minute Pulley Shaft	Weight	Price
		Diam.	Face	Diam.	Face	Diam.	Length				
2XX	2½ to 3½	30"	3"	6"	3"	1 1/8"	20"	30" x 6 1/2"	} 50 R. P. M.	1,139	\$154.00
3XX	3½ to 4½	36	3½	6	3½	1 1/8"	22	36 x 7 1/2"		1,552	200.00
4XX	4½ to 6	40	4	6.66	4	2 1/8"	24	40 x 8 1/2"		2,106	255.00

## SINGLE GEARING.



Surface speed of Cane Mill Rolls should be about 27 feet per minute.

A Lever Cap is furnished as shown in cut, to allow Mill to be driven by horse power if necessary.

See pages 68 and 69 for Combination Single and Double Geared Mills, No. 2, No. 3, No. 4.

See pages 72 and 73 for Combination Single and Double Geared Mills, No. 18XX and No. 20XX.

See pages 66 and 67 for description of gearing.

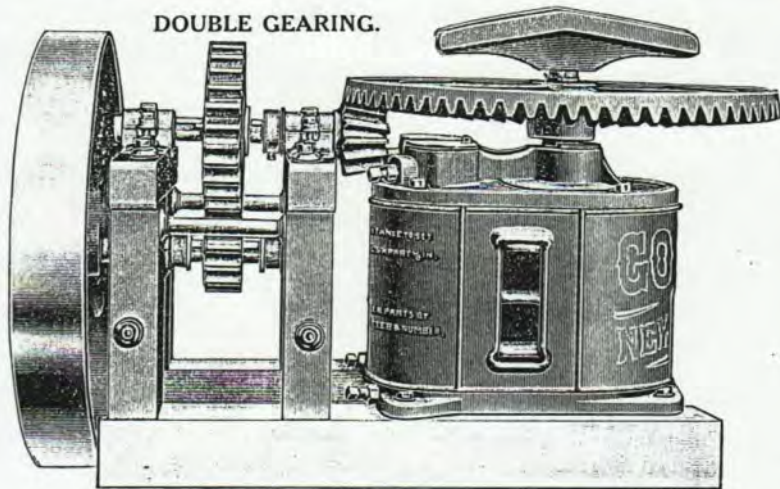


# Goldens' Combination Mill, Adapting Nos. 2XX, 3XX and 4XX to Steam Power.

72

Number of Mill	Horse Power Required	Large Bevel Gear Diam. Face	Small Bevel Gear Diam. Face	Large Spur Gear Diam. Face	Small Spur Gear Diam. Face	Top Shaft	Bottom Shaft	Size of S. R. Pulley	Rev. Per Minute Pulley Shaft	Weight	Price
2XX	2½ to 3½	50"	3"	6"	3"	11½"	2½"	30x6½	} 125 R. P. M.	1,227	\$180.00
3XX	3½ to 4½	36	3½	6	3½	14½"	2½"	36x7½		1,657	232.00
4XX	4½ to 6	40	4	6.66	4	15½"	2¾"	40x8½		2,292	292.00

DOUBLE GEARING.



A Lever Cap is furnished as shown in cut, to allow Mills to be driven by horse power if necessary.

See pages 68 and 69 for Combination Single and Double Geared Mills, No. 2, No. 3 and No. 4.

See pages 72 and 73 for Combination Single and Double Geared Mills, No. 18XX and 20XX.

See pages 66 and 67 for description of gearing.

Surface speed of Cane Mill Rolls should be about 27 feet per minute.

# Goldens' Combination Mill, Adapting Nos. 18XX and 20XX to Steam Power.

Number of Mill	Horse Power Required	Large Bevel Gear		Small Bevel Gear		Shaft		Size of S. B. Pulley	Rev. Per Minute Pulley Shaft	Weight	Price
		Diam.	Face	Diam.	Face	Diam.	Length				
18XX	6 to 8	42"	4½"	7"	4½"	2 7/8"	27"	44 x 10½	} 50 R. P. M.	3,130	\$377.00
20XX	8 to 10	44	5	7.33	5	2 1/4"	31	48 x 12½		4,247	450.00

## SINGLE GEARING.

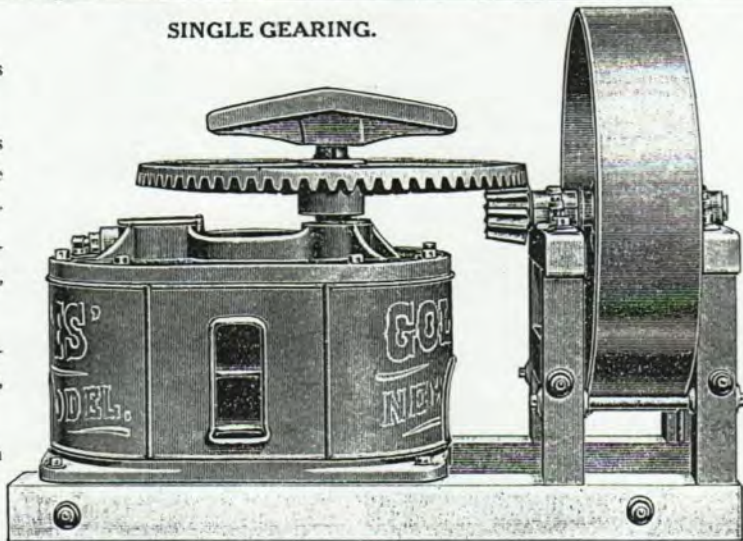
Surface speed of Cane Mill Rolls should be about 27 feet per minute.

A Lever Cap is furnished, as shown in cut, to allow Mill to be driven by horse power if necessary.

See pages 68 and 69 for Combination Single and Double Geared Mills, No. 2, No. 3, and No. 4.

See pages 70 and 71 for Combination Single and Double Geared Mills, No. 2XX, No. 3XX and No. 4XX.

See pages 66 and 67 for description of gearing.

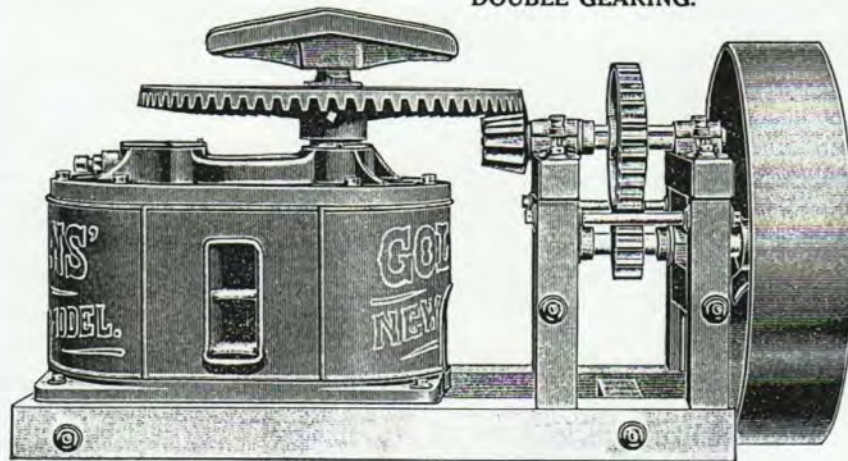


74

# Goldens' Combination Mill, Adapting Nos. 18XX and 20XX to Steam Power.

Number of Mill	Horse Power Required	Large Bevel Gear Diam. Face		Small Bevel Gear Diam. Face		Large Spur Gear Diam. Face		Small Spur Gear Diam. Face		Top Shaft	Bottom Shaft	Size of S. H. Pulley	Rev. Per Minute Pulley Shaft	Weight	Price
18XX	6 to 8	42"	44"	7"	4½"	16½"	3"	6½"	3½"	2 7/8" x 27"	2 1/4" x 33½"	44 x 10½	} 125 R. P. M	3,318	\$420.00
20XX	8 to 10	44	5	7.33	5	17 2/3"	3½	7 2/3"	3½	2 1/8" x 31	2 1/4" x 39	48 x 12½		4,475	528.00

## DOUBLE GEARING.



Surface speed of Cane Mill Rolls should be about 27 feet per minute.

A Lever Cap is furnished as shown in cut to allow Mills to be driven by horse power if necessary.

See pages 68 and 69 for Combination Single and Double Geared Mills, No. 2, No. 3 and No. 4.

See pages 70 and 71 for Combination Single and Double Geared Mills, No. 2XX, No. 3XX and No. 4XX.

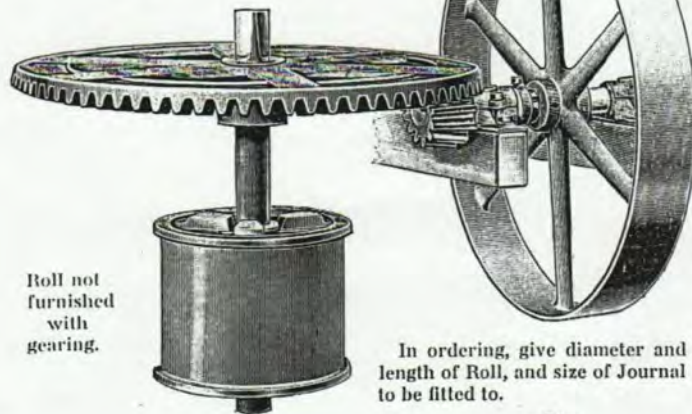
See pages 66 and 67 for description of gearing.

# General Dimensions, Price and Weights of Gearing for Cane Mills.

For Roll Diam.	Large Bevel Gear		Small Bevel Gear		Single Belt Pulley			Shaft		Rev. Per Minute Pulley Shaft	Weight Gearing Without Roll	Price Gearing Without Roll
	Diam.	Face	Diam.	Face	Diam.	Face	Bore	Diam.	Length			
12"	30"	3"	6"	3"	30"	6½"	1 1/8"	1 1/8"	20"	} 50 R. P. M.	298	\$ 49.00
14	36	3½	6	3½	36	7½"	1 1/8"	1 1/8"	22		436	65.00
16	40	4	6.66	4	40	8½"	2 1/8"	2 1/8"	24		589	82.00
18	42	4½	7	4½	44	10½"	2 1/8"	2 1/8"	27		784	102.00
20	44	5	7.33	5	48	12½"	2 1/8"	2 1/8"	31		969	124.00

Surface speed of Cane Mill Rolls should be about 27 feet per minute.

## SINGLE GEARING.



Roll not  
furnished  
with  
gearing.

In ordering, give diameter and length of Roll, and size of Journal to be fitted to.

The following parts comprise the single gearing for each size of Roll:

1 Large Bevel Gear K. S. and S. S., with Key, bored to fit Journal; 1 Small Bevel Gear K. S., with Key; 2 Competition Pillow-Blocks with Hanger Screws, 1 Competition Set Collar, 1 Single Belt Pulley K. S., with Key, 1 Pulley Shaft K. S.

See pages 68 and 69 for Combination Single and Double Geared Mills, No. 2, No. 3 and No. 4.

See pages 70 and 71 for Combination Single and Double Geared Mills, No. 2XX, No. 3XX and No. 4XX.

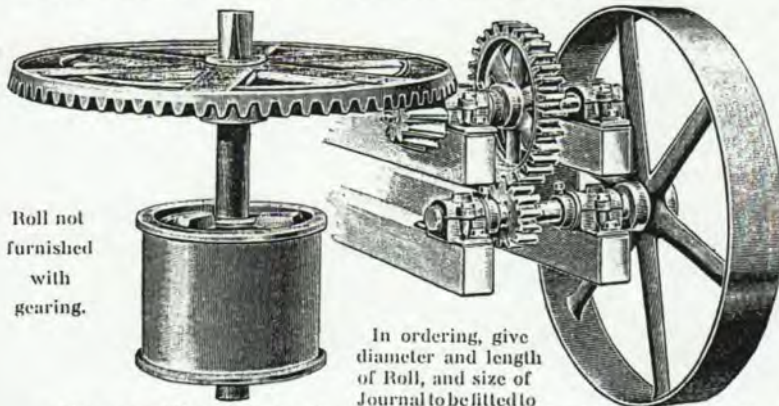
See pages 72 and 73 for Combination Single and Double Geared Mills, No. 18XX and 20XX.

See pages 66 and 67 for description of gearing.

## General Dimensions, Price, Weights &c., of Double Gearing, Adapted to Vertical Cane Mills.

For Roll Diam.	Large Bevel Gear		Small Bevel Gear		Single Belt Pulley		Top Shaft		Bottom Shaft		Large Spur Gear		Small Spur Gear		R. P. M. Pulley Shaft	Weight Without Roll	Price Without Roll
	Diam.	Face	Diam.	Face	Diam.	Face	Diam.	Length	Diam.	Length	Diam.	Face	Diam.	Face		Roll	Roll
12"	30"	3"	6"	3"	30"	6½"	11½"	20"	11½"	25"	11½"	2½"	4½"	2½"	125 R. P. M.	376	\$ 74 00
14	36	3½	6	3½	36	7½"	11½"	22	11½"	25½	14½"	2½"	5½"	3		549	97 00
16	40	4	6.66	4	40	8½"	11½"	24	11½"	29	16½"	2½"	6½"	3		725	120 00
18	42	4½	7	4½	44	10½"	11½"	27	11½"	33½	16½"	3	6½"	3½		960	146 00
20	44	5	7.33	5	48	12½"	11½"	31	11½"	39	17½"	3½	7½"	3½		1,193	175 00

Surface Speed of Cane Mill Rolls should be about 27 feet per minute.



Roll not furnished with gearing.

In ordering, give diameter and length of Roll, and size of Journal to be fitted to

See pages 72 and 73 for Combination Single and Double Geared Mills, No. 18XX and No. 20XX.  
See pages 66 and 67 for description of gearing.

The following parts comprise the Double Gearing for each size of Roll:

1 Large Bevel Gear K. S. and S. S., with Key, bored to fit Journal; 1 Small Bevel Gear K. S., with Key; 4 Competition Pillow-Blocks with Hanger Screws, 3 Competition Set Collars, 1 Single Belt Pulley K. S., with Key; 1 Pulley Shaft K. S., 1 Gear Shaft K. S., 1 Large Spur Gear K. S.-S. S., with Key; 1 Small Spur Gear K. S., with Key.

See pages 68 and 69 for Combination Single and Double Geared Mills, No. 2, No. 3 and No. 4.

See pages 70 and 71 for Combination Single and Double Geared Mills, No. 2XX, No. 3XX and No. 4XX.

# CARE.

IN operating a Three-Roller Cane Mill, care should be taken in setting Rollers properly before starting up mill. In no case should the first small Roller be jammed against the large one; it should be set one-quarter to one-half an inch from large Roller, as it is only intended to mash, not to grind the cane. The second small Roller should be set up close against large Roller for purpose of grinding.

If first small Roller is set too close, the bagasse so ground, being in fine particles, will get between Rollers and choke the Mill, causing probable breakage of some part of Mill, and considerable annoyance to operator.

Should the operator desire to change the feed box on the Three-Roller Mills, in order to grind from the opposite side, it will also be necessary to change the two small Rollers at the same time.

See that your Mill is properly oiled.

## THE SQUARES ON SHAFTS OF MILL

Are planed for Lever Cap, thereby securing a perfect and correct fit. We see that every Mill is in good running condition before it leaves our works.

### STYLE OF LEVER CAPS.



No. 1

Single Angle  
Standard for Mills  
Nos. 1, 2, 12, 1x, 2x and 12x



No. 2

Double Angle  
Standard for Mills  
Nos. 3, 4, 11, 16, 3x, 4x,  
14x, 16x, 2xx, 3xx and 4xx.



No. 3

Straight  
Sent in Place of  
Nos. 1 and 2, if Order  
Particularly Specifies Same.

# NOTICE.

---

IT IS OUR DESIRE TO PLEASE our customers, and at all times ship out the goods wanted by them. If they will plainly state what they want, we feel sure we will not ship them something they did not order, nor waste time in writing them as to their wants. Therefore we wish to impress firmly in the minds of our customers the necessity of being concise and stating plainly their wants when ordering goods from us. Examine our catalogue and order from it, calling the articles by name, numbers and letters, as the case may be. It will save them both time and money.

---

Previous to the year 1904, we manufactured and called our cane mills "The Golden Mill." During the year 1904 and since that time we have manufactured and put on the market our new mill which we call and advertise as "Goldens' New Model Mill." When ordering repair parts be sure to specify whether the parts are for "The Golden Mill" or whether for "Goldens' New Model Mill." By doing so this will prevent any errors being made.

If uncertain as to make of mill, send old picces to be duplicated.

