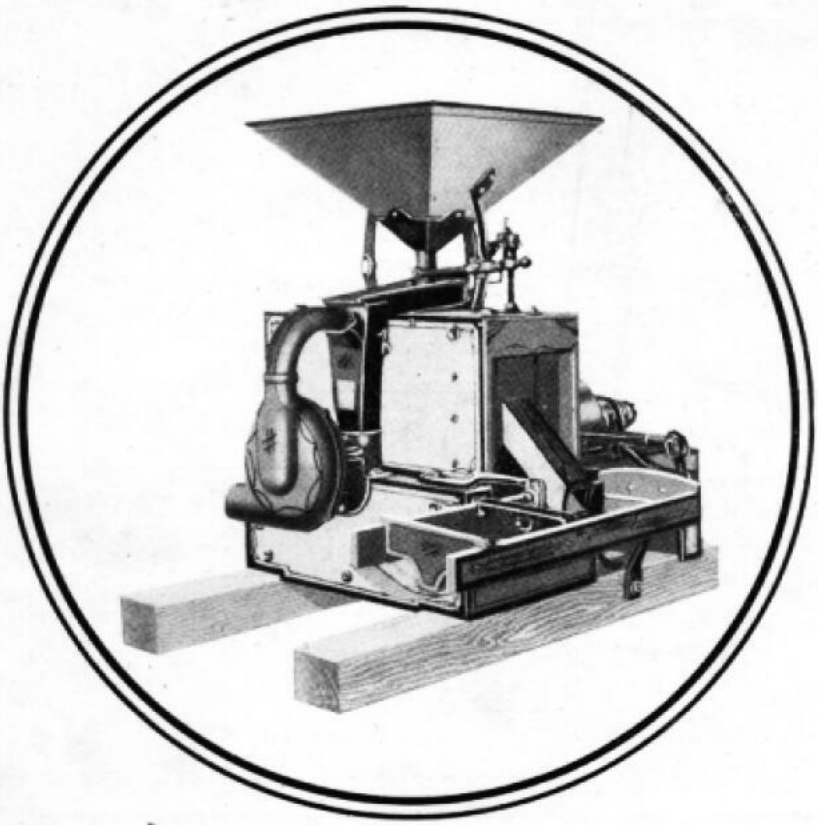
Foreword

THIS catalog showing the latest in Williams Mills, we believe, is the last word in scientifically correct corn meal and feed mills. Buhr Mills up until this time have not kept pace in improvements as have many other modern devices. THIS WAS OUR INCENTIVE: PERFECTION IN CORN MEAL AND MILL FEED GRINDING. How well this has been accomplished and the result of our "everlastingly keeping at it" to attain perfection, the increase in the size of our factory and our output tells better than any words in the English language.

A glance at our modern factories, twice increased in size to take care of needed added capacity, will prove we have attained the Acme of Perfection in building mills that perfectly grind corn meal and mill feeds.

The Perfect Mill is The Williams Mill—
THE MONEY BACK MILL.

WILLIAMS' MILLS PAY



"The Money Back Mill"

Manufactured By

Williams Mill Manufacturing Co.

Ronda, N. C.

How Williams Mills Are Built

Usefulness and durability should be the guiding points in buying a Corn Meal Mill or Mill Feed Mill. Look to see if there are any complicated parts. If its construction is substantial. Does it need an experienced or expensive miller? Will it last? The Williams meets all requirements.

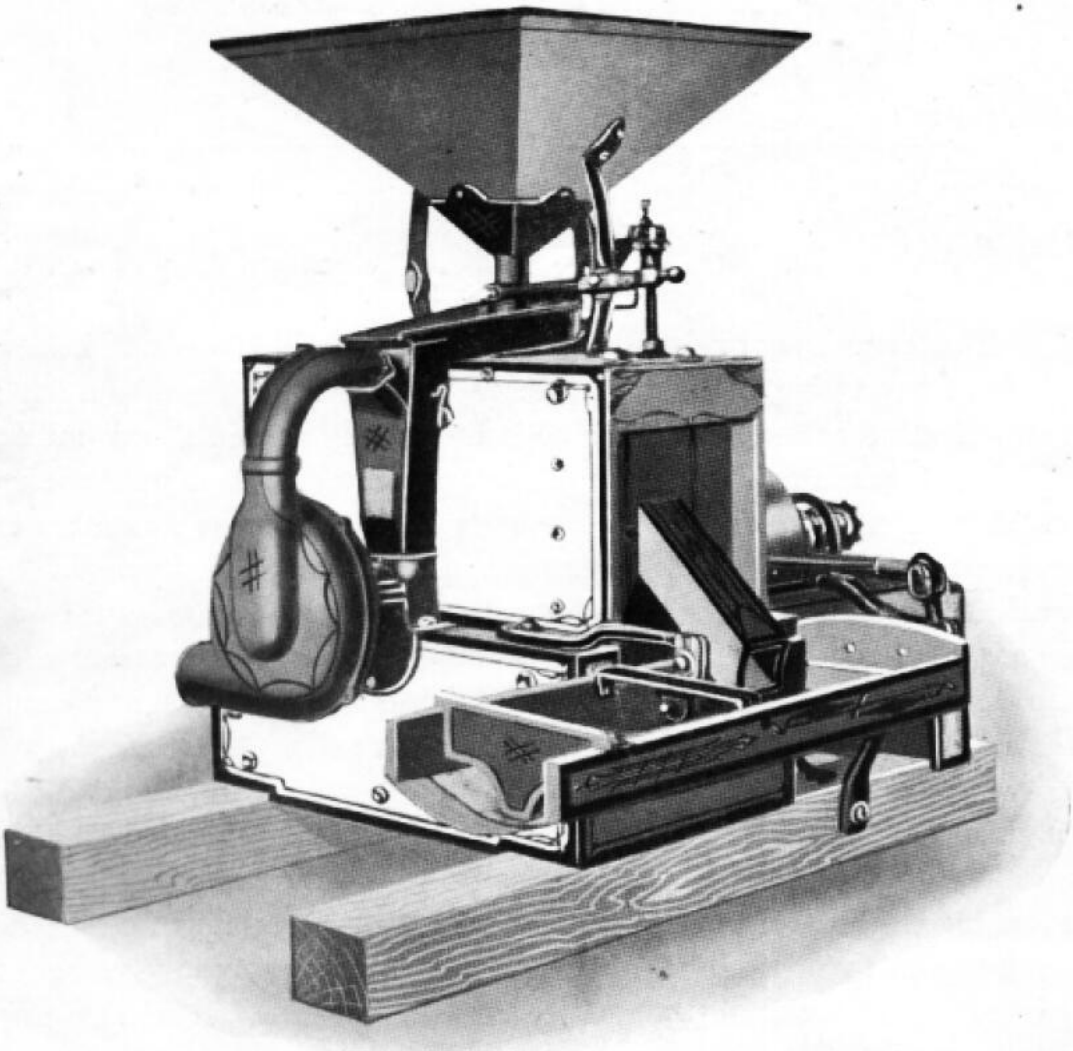
CONSTRUCTION

The frame work or skeleton of the Williams Mill is made of a select grade of heart pine, cut with great care, that insures it free from knots and defective parts. This lumber is thoroughly seasoned and milled before it is made up for the frame work of the mill. It is put together in the most rigid manner and thoroughly held in place by a number of wrought iron bolts, which makes the most perfect wood frame in the world. For strength and durability we claim that our frame is the equal of any cast iron frame made, and we think has many advantages over the cast iron frame; the chief of these is that it does not sweat and cause the meal to cake up and sour, as it does in the iron hull. The Spindles are heavy and are of the best grade of steel; the boxing is the best that can be made and well lined with a good grade of anti-friction babbitt metal, which insures a cool spindle and box at all times. The babbitt is arranged in halves to allow for the take up in wearing. Just inside the bearings there is an oil trap, or device for catching any excess of lubricating oil which might trickle down the spindle and find its way into the meal. This feature is a valuable one and will be highly appreciated by those who desire nothing but the most wholesome bread meal.

FAN CLEANS THE MEAL

The mill is provided with a fan for cleaning the grain as it passes from the hopper to the buhrs. The fan is made of one solid piece of

metal and is fastened onto the end of the shaft or spindle with a set screw, and is provided with a case or covering which has a return bend through which the air current is directed and carried directly through the grain spout, thereby blowing away all husky material, together with the dirt and other accumulations that necessarily find their way into corn and other grain, as well as the silks and hairs that will get into the grain. The fan is a simple little piece of mechanism, but is as perfect as it is

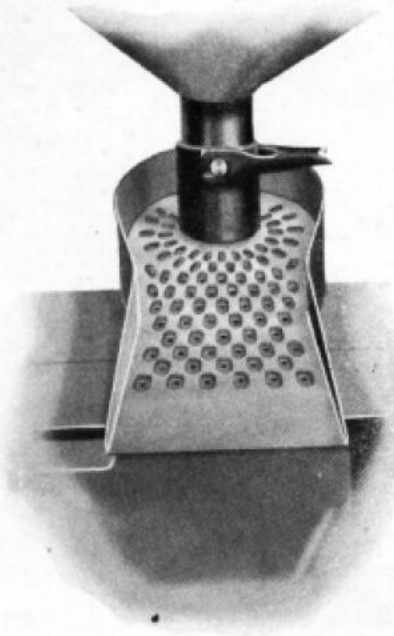


THE MILL CLOSED

simple, and has no feed belts or driving parts to get out of order, but is always ready and running when the runner buhr is going. This feature in our mill can not be overestimated since it always insures clean, wholesome meal.

SCREENS TAKE OUT TRASH AND LITTER

In addition to the fan for blowing out litter and trashy matter which screens will not take out, the Williams Mills are provided with perforated metallic screens placed in the shaker shoe. The first or top screen prevents foreign substances, such as nails or bolts, from entering into the mills and damaging. The second or lower screen takes out broken particles, as well as litter of every description, and is here separated from the corn that is being ground for bread meal. Nearly all corn is infected with rat litter and weevils. These are positively taken out by these screen devices. On account of these features, if no other, the Williams Mills are greatly superior to other mills.



Perforated Metal Screen in Shoe.

WHITE FLINT STONE BUHRS

The buhrs are the best that money can buy. They are the White Flint grit, which is the equal, if not the superior of the French Buhr. Our buhrs are hard and flinty, but tough in texture, which makes them especially adapted to grinding soft, fine meal. They require little sharpening to keep them in good grinding condition. The runner stone is securely fastened to the spindle and the stationary stone is cemented in the frame of the mill in the most solid manner, so that the buhr can not get out of alignment, thus avoiding the trouble that is presented by various other mills, on account of the stones getting out of tram. The ordinary mill with the old set screw arrangement for adjusting the stationary buhr is not to be considered when you compare it with our new and improved method of cementing the bed stone.

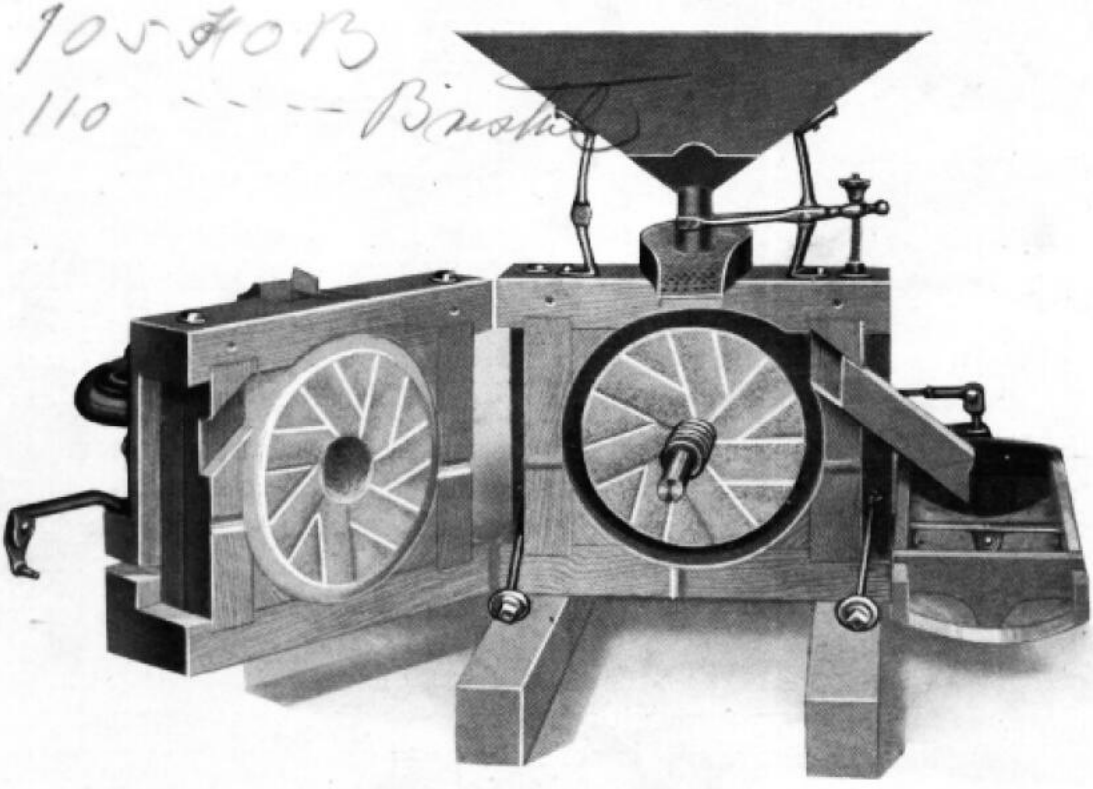
BUHRS WILL NOT DRIFT

Also another feature of the Williams Mill is that the buhrs positively will not run together when the mill runs empty. This action is positive and will not disappoint the miller at any time. He can put up his grain and go on about his business, and if, when he returns, the grain is ground out, he will find his mill running on as if nothing had happened, and the face of the buhrs not damaged in the least by running

together. No other mill will do this as all other mills require the attendant to be on hand when the grain runs out to release the tension of the buhrs by backing the thrust screw of the runner stone. It is impossible to overestimate the value of this feature in a mill, since it insures a *good* grinding surface on the buhrs all the time, while the old fashioned mill will get the face ground off the buhrs, it matters not how careful the attendant may be.

EASY TO OPEN

The Williams Mill can be opened for sharpening in from one to three minutes. The old method of spending several hours with wrench,

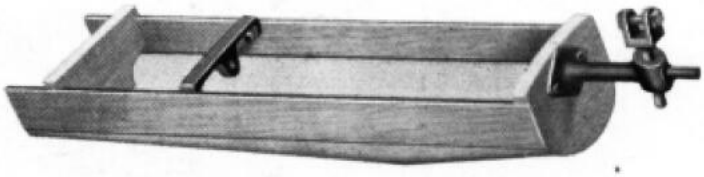


THE MILL OPEN.

hammer and crowbar has been entirely eliminated, as you only have to remove two nuts and loosen two more, when you are ready to swing the mill open. This is all done in a few moments and with ease, compared with the old method of taking off the hopper and then loosening *every bolt about the mill.* The Williams Mill doesn't require dressing often, but when it needs it the miller has an easy job instead of having to invite the whole neighborhood in to help sharpen his mill.

SIFTER OR BOLTER

Each mill is furnished with a sifter or bolting attachment. This is very valuable where meal is ground for the trade and sacked at the mill. The manner of operating the sifter of the Williams Mill is different from any other. The sifter has a rocking motion similar to the old style of sifting by hand, this motion being extended to the sifter from a rod attached to the eccentric on the shaft, and the motion is not only positive, but is almost noiseless, and therefore is greatly superior to the lengthwise motion of the sifters on other mills, which are difficult to keep in order and cause a great deal of rattling, as well as wear.

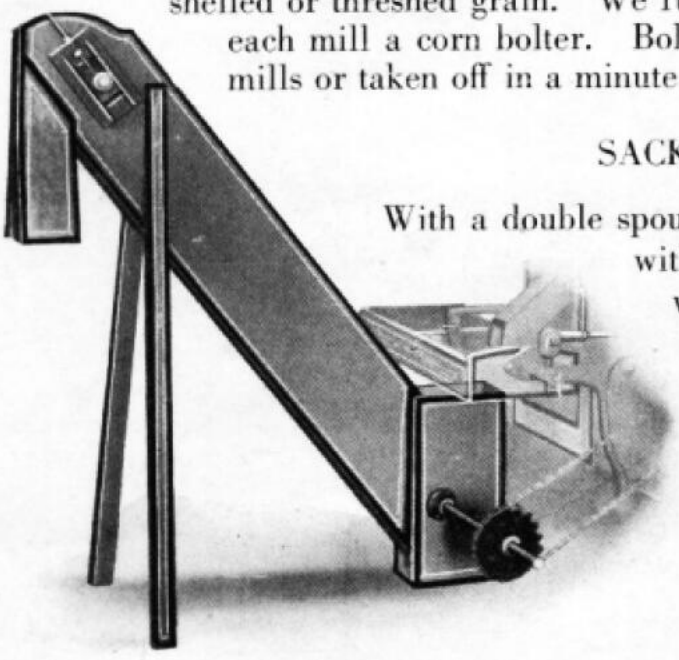


EXTRA BOLTERS OR SIFTERS

We can furnish extra bolters or sifters for making whole wheat flour, grits, buckwheat flour, and numerous other products made from shelled or threshed grain. We furnish free of charge with each mill a corn bolter. Bolters can be placed on the mills or taken off in a minute while the mill is running.

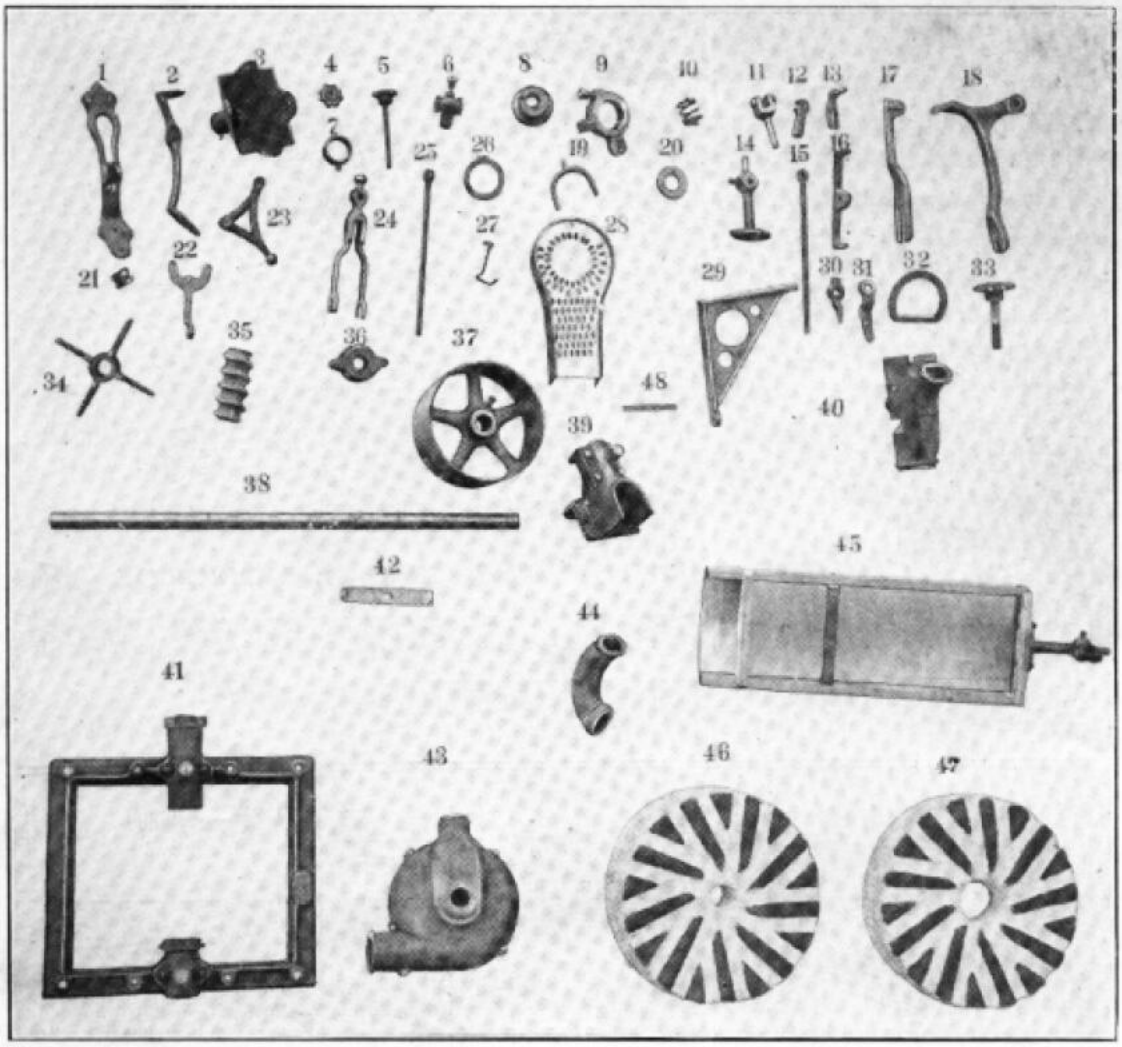
SACKING ELEVATOR

With a double spout is furnished as an extra with Williams Mills. Elevator is driven off of main mill shaft by a narrow belt, which has proven to be the best drive for this class of machinery.



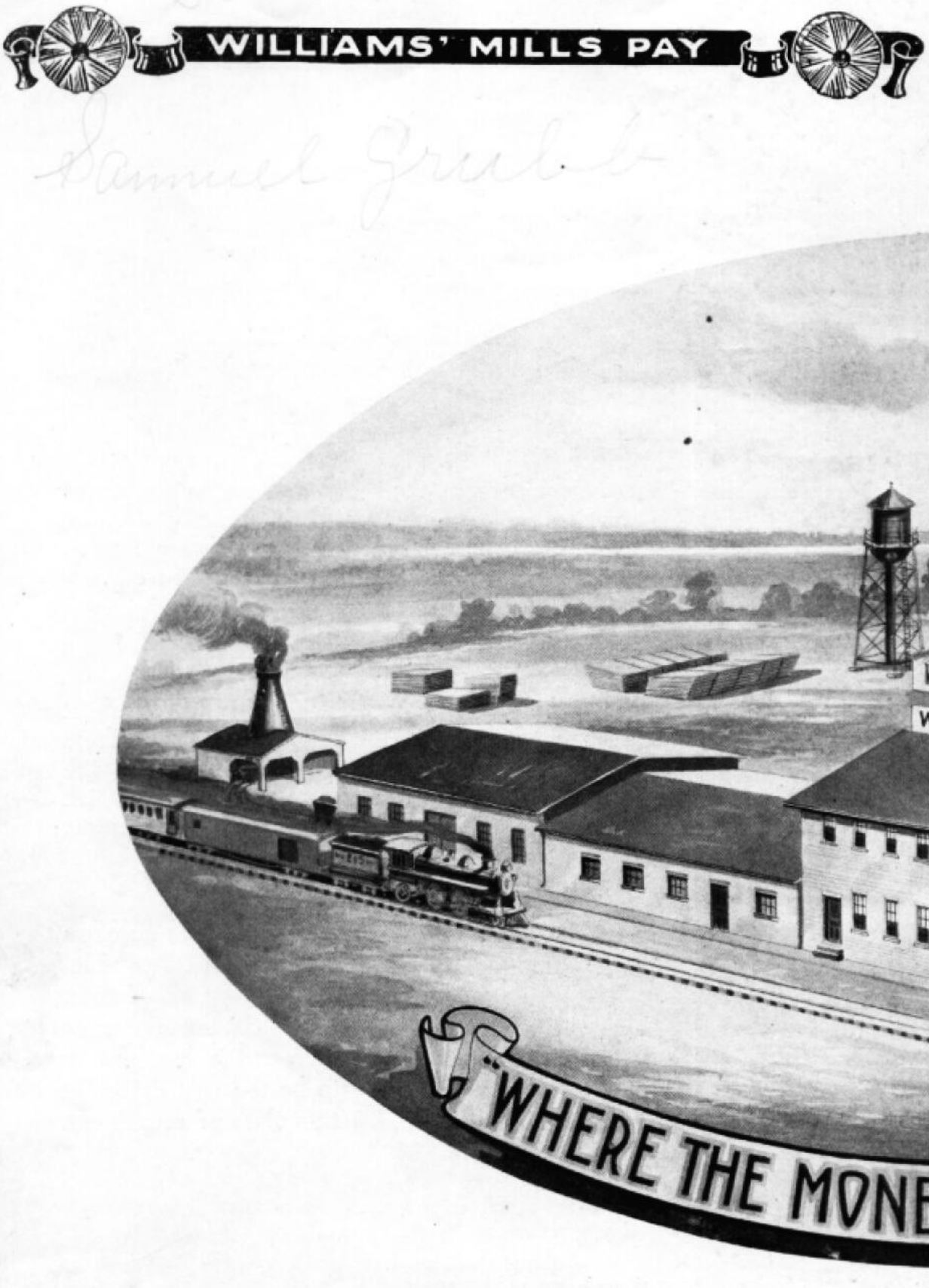
DOUBLE SPOUT SACKING ELEVATOR

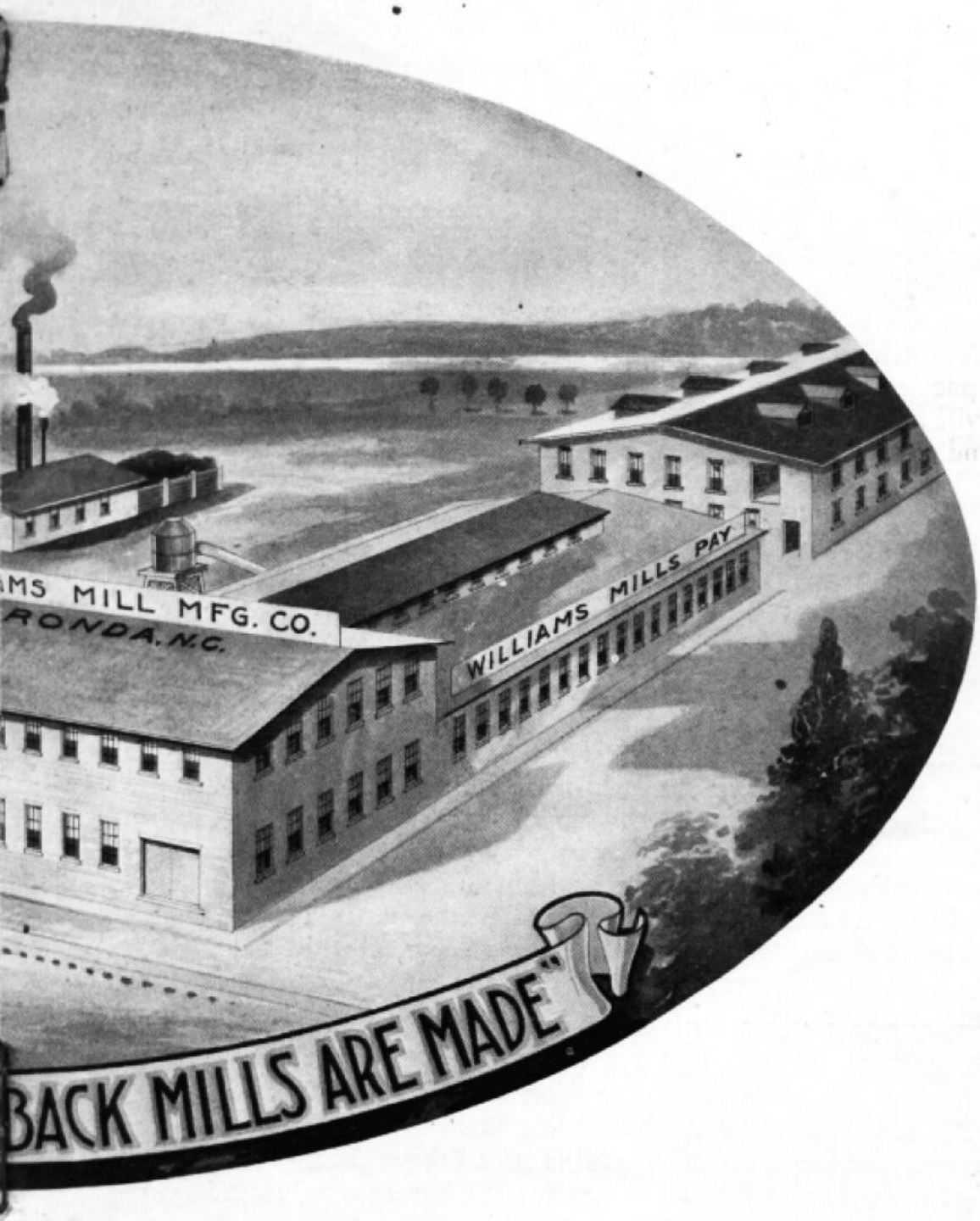
LIST OF PARTS OF
THE WILLIAMS PORTABLE CORN MEAL AND FEED MILL



1—Hopper Support	$ 1.00	25—Sifter Rod	.50
2—Hopper Support	.80	26—Eccentric Ring	$ .50
3—Hopper Base	2.50	27—Sifter Rod Holder	.25
4—Hand Nut for Feed Rod	.40	28—Double Screened Shoe	5.00
5—Feed Rod and Base	.80	29—Frame Brace	.80
6—Eccentric Rod Top with Oil Cup	1.00	30—Indicator Needle	.50
7—Hopper Base Band	.80	31—Lock Nut	.40
8—Eccentric Hub	2.00	32—Indicator Circle	1.00
9—Eccentric Strap and Oil	2.50	33—Thrust Screw	2.00
10—Coil Spring	.50	34—Fan	1.50
11—Sifter Casting	1.00	35—Feed Screw	2.00
12—Sifter Rod Head	.50	36—Buhr Drive Casting	1.00
13—Sifter Hanger	.50	37—Pulley	$3.50 to 5.00
14—Sifter Head Casting	1.00	38—Shaft	2.00 to 5.00
15—Eccentric Rod	.50	39—Feed Box Bearing	5.00
16—Sifter Brace	.50	40—Grain Box or Spout	2.00
17—Sifter Support	1.00	41—Improved Frame with Babbitted Bearings	$6.00 to 12.00
18—Sifter Support	1.50	42—Buhr Pick	3.00
19—Spring Cover	.50	43—Fan Case	5.00
20—Spring Washer	.50	44—Air Spout	2.00
21—Improved Ball Bearing	2.00	45—Complete Sifter or Bolter	$ 6.00 to 10.00
22—Shoe Casting	.50	46—Runner Buhr, Shaft Attached	$10.00 to 30.00
23—Shoe Vibrator	.50	47—Stationary Buhr	$ 8.00 to 24.00
24—Feed Fork	1.00	48—Feed Fork Spring	.50

In ordering repairs always order by number, and state shop number of mill.


WILLIAMS' MILLS PAY
WILLIA
WHERE THE MONEY


MS MILL MFG. CO.
RONDA, N.C.
WILLIAMS MILLS PAY
BACK MILLS ARE MADE"

of the mill containing the buhrs can be easily gotten at. Go over the face of the buhrs carefully with a sharp pick, dressing off any slick surfaces which appear on the face of the buhrs. Apply a coat of water paint to face of buhrs and readjust the sections of the mill and run the buhrs together again, lightly. Take the sections apart again and see if there are still any high places on the face of the buhrs, and if there should be any, dress over again lightly with the pick. The above is the process which every mill undergoes before leaving the factory, and each mill is carefully tested by grinding a sufficient amount of corn through it to prove that it is perfectly true, and that it will make meal of an extra degree of fineness. If the spring pressing against the middle box should cause any heating at this point, loosen the set screw attaching the eccentric to the shaft, and shove the eccentric slightly toward the pulley, making room on the shaft for relieving the tension of this spring.

SIZE, CAPACITY, HORSEPOWER REQUIRED, AND PRICE OF

WILLIAMS VERTICAL CORN MEAL AND FEED MILLS

Size	Weight	Horse-power Required	Size Pulley	Speed	Capacity Per Hour		Floor Space Required	PRICES QUOTED ON REQUEST
					Meal	Chops		
12-inch....	550 lbs.	4 to 5	8 by 5	1000	4 to 5 bu.	8 to 10 bu.	2 x5 ft.—Ht. 4 ft.	
16-inch....	750 lbs.	6 to 8	10 by 6	800	6 to 8 bu.	10 to 20 bu.	2½x5 ft.—Ht. 4 ft.	
20-inch....	1000 lbs.	8 to 10	12 by 6	700	6 to 12 bu.	20 to 25 bu	3 x5½ ft.—Ht. 5 ft.	
24-inch....	1250 lbs.	10 to 12	14 by 8	600	8 to 15 bu.	25 to 30 bu.	3¼x5½ ft.—Ht. 5 ft.	
30-inch....	1750 lbs.	12 to 20	14 by 8	500	12 to 20 bu.	30 to 40 bu.	3½x5½ ft.—Ht. 5½ ft.	

We have now several thousand Williams Mills in operation, with not a single dissatisfied customer to our knowledge.

We guarantee the mills to perform as we represent them. Should they fail to do so we will take them off the customer's hands.

Note what a few of our customers have to say in regard to the merits of the Williams Mills. These letters are on file, together with many others, in our office, and are open to the inspection of any who are interested.

WILLIAMS MILL MANUFACTURING CO.

Ronda, North Carolina.

meal, and as will be noted, has a rocking instead of a lengthwise motion. This is the latest and most perfect sifter attached to any mill. It is simple, yet strong and durable, and can be connected or detached while the mill is in operation. The iron for the head of sifter is placed on inside of frame when shipping; take this off and attach to outside of the sill by the lag bolt, and to top of cast frame by the bolt which already attaches this casting to the frame. The lower end of the sifter is to be attached to the casting which is bolted to pillow block, and can be raised or lowered by the sliding casting as is desired to allow the bran to run out of the sifter. When the mill is running at a slow speed, the eccentric rod operating the sifter should be pushed further in the ball of the sifter head so as to shorten the stroke, and thus give more vibration to the sifter.

THE THRUST SCREW

at right-hand end of the shaft adjusts the buhrs to the proper degree of closeness for grinding corn or other grain for bread meal or for feed, as may be wanted. The spring in the housing, next to the middle bearing, prevents the buhrs from drifting together as the grain runs out, but in grinding very fine meal the thrust screw should be backed, slightly, as the mill runs empty. Lock the screw, when the buhrs are adjusted for proper grinding, by turning up the lock-nut against the end of the bearing or box.

THE INDICATING DEVICE

consists of a half circle and stop with three legs, and a needle attached to the thrust screw. The mills are shipped with the needle attached to the screw so that when it is turned against the stop, fine meal will be produced, and yet the stones can not be thrust together. If coarse meal is desired to be ground, turn the thrust screw backward, so that the needle points to other figures on the circle. The needle can be reattached on the screw at any time that it is desired to make new adjustment.

THE ECCENTRIC

vibrates the shoe as well as the sifter by the connecting rods, and if for any cause it begins to heat at all, loosen the nuts slightly, and the eccentric strap can be opened, another thin liner inserted at the top of the strap, where, it will be noticed, is a joint in the strap, this joint held together by a small machine bolt.

To take the mill apart to sharpen the buhrs—loosen the set-screw attaching the fan to the end of the shaft; take off the nuts on the rods through the top of the mill frame, and push the rods out, loosen the large nuts on the ends of the swing-out bolts, and turn these bolts out; then slip the front section of the mill out along the sills; thus both sections

BEARINGS

The bearings in all the Williams Mills are of the latest and most modern type of *ball bearings*. The adjustment of the buhrs for grinding is regulated by a hand wheel and screw, acting upon the end of the shaft, which is adjustible and can not get out of order.

FEEDING DEVICE

This device is the simplest and best arrangement of the kind that has ever been brought out. The feeding arrangement is such that it can be regulated to give the required amount of grain in a smooth, even current to the buhrs and in any amount desired. It has the positive force feed which counts for much where *rapid grinding* is required. The capacity of the Williams Mill is measured only by the power used. They will make from five to ten bushels of good corn bread meal per hour and will will grind from five to forty bushels of feed per hour.

THE THRUST SCREW

At the right hand end of the shaft adjusts the buhrs to the proper degree of closeness for grinding corn or other grain for bread or for feed, as may be desired.

THE INDICATOR

Consists of a half circle and stop with three legs, and a cast iron pointer attached to the thrust screw. The miller should loosen the pointer or needle so that the thrust screw will turn in it, and set the buhrs for grinding the quality of meal that is desired, turn the pointer so that the small end will rest against the stop, and then tighten on the thrust screw. The buhrs can then be opened for grinding coarser meal or any other purpose, and when it is desired to grind fine meal again, turn the thrust screw forward until the pointer rests against the stop. Thus the buhrs can be adjusted time and again for grinding fine meal without damaging them, thereby avoiding running the stones together and causing them to become slick or dull. This is a most valuable feature in the construction of the mills.

OUR GUARANTEE

All of the Williams Mills are sold under the *personal guarantee of the manufacturers*, that if the mill is not all they claim for it *they will take it back and refund the money paid*. We have entered the mill field to stay and *shall at all times* turn out such work as will merit the confidence and respect of the most exacting customers. We own our plant and shall conduct our own business, as we belong to no trust or combine of any kind.

INSTRUCTIONS

FOR SETTING UP, OPERATING AND TAKING APART FOR DRESSING THE BUHRS OF THE "WILLIAMS" CORN AND FEED MILLS

THE MILL should be set on a steady platform raised about 18 inches above the floor of the mill house, so as to allow a meal box or chest to go under the spout; place mill 12 to 20 feet from the engine or driving pulley, if possible, using 6-inch belt for the 12-, 16- and 20-inch mills, and 8-inch belt for the 24- and 30-inch. See that the shaft runs easily in the bearings, not too tight, as the boxes will heat if the cap screws are forced down too much, nor will it run true if the caps are loose.

THE FAN

is attached to the end of the shaft in the case by a set screw, and can be adjusted so as not to strike against the side of the case at any time. The force or current of air can be regulated by making the opening in front of the fan case large or small, as the current may be wanted—strong or weak. This depends on the amount of dust or trash which is desired to be blown from the grain as it enters the mill. Close the door entirely and very little air is blown through.

THE SHOE OR FEEDING DEVICE

is operated by the eccentric next to the pulley, and the nuts should be carefully adjusted should they become loose, to prevent rattling, but not so tight as to cause heating of the connections.

The top perforated metal screen in the shoe prevents foreign substances, such as nails, nuts and bolts, from entering the mill with the grain and thereby avoids any damage to the stone buhrs. A second plate is placed in the shoe beneath the first plate, and this allows rat litter, grit, broken particles of grain, and weevils to fall on the bottom of the shoe and be discharged out through the side of the cast iron grain spout. A moveable door is placed in the top of the grain spout and attached with a thumb screw. When grain for table use is being ground the thumb screw is turned perpendicularly and thus an opening is made for the rat litter and other matter to be discharged at the side of the grain spout through the opening prepared for this. When grain for feed is being ground, the thumb screw is turned on an angle, thus closing the opening in the top of the grain spout and all the grain is thus allowed to enter the mill without any separation of the trash and litter.

THE SIFTER

is an entirely new and patented device for separating the bran from the

WILLIAMS' MILLS PAY

TESTIMONIALS

Tye River Mills, Tye River, Va.,
February 24th, 1918.

Williams Mill Manufacturing Co.,
Ronda, North Carolina.

Gentlemen:

We have been using your corn mills for some time with the greatest satisfaction.

We are now thinking of undertaking the manufacture of whole wheat flour, using nearly all the grain, in order to meet existing conditions and incidentally to make a little money. We do not manufacture flour.

I am writing to ask if your corn mills are adaptable to a work of this sort; if not, do you manufacture a special mill that is adaptable?

We do not wish to go rashly into a matter of this sort and would, therefore, appreciate it if you would write us frankly on this subject; whether or not it is advisable or whether or not we can use your present mill or any you manufacture for this purpose.

With kindest regards,

Yours truly,
BEAUMONT COMPANY, INC.,
Per T. O. Tray, Pres't.

—o—

Oak Ridge Farm, Route No. 1,
Concord, N. C., Feb. 2, 1918.

Williams Mill Mfg. Co.,
Ronda, N. C.

Gentlemen:

I am writing you today in regard to my corn mill. I have one of your 12-inch corn mills. Have been running it one day a week for some time. It has given satisfaction—all O. K. Got it just for my own use. The people around me began to come to mill so that I had to set one day a week to grind for the public. The business has doubled so that the 12-inch mill is too small. I must get a large mill. How would a 20-inch mill do? I have your catalogue for 1914, and want to know if you have a 20-inch mill in stock. If you have, tell me the cash price, or would you change mills with me? Would you change and I pay the difference? I am so pleased with the Williams Mill, and it makes meal everybody wants more of when once they try it.

Will you please let me know if you have a 20-inch mill in stock, and it you would trade? State cash price on 20-inch mill.

Yours and oblige,
STARR S. JOHNSTON.

R. F. D. 5, Holly Springs, Miss.,
January 14, 1918.

The Williams Mill Mfg. Co.,
Ronda, N. C.

Gentlemen:

We have one of your 16-inch mills, which has given perfect satisfaction. We have ground 600 bu. of corn in the past two and a half months, without any adjustments necessary. We have one of your regular bolters, which is furnished with the mill. What changes would be necessary in order to make grits and what would be the cost? Thanking you for an early reply, we are,

Yours truly,
ROME BROS.,
Per C. H. Rome.

—o—

Adolphus, Ky., Jan. 28, 1918.

The Williams Mill Mfg. Co.,
Ronda, N. C.

Gentlemen:

The Williams Corn Mill I bought from your agent at Adolphus, Ky., has been running for over two years and it is giving good satisfaction. It will do all the company claims it will do. Have used several different mills, but the Williams Mill is the best I have ever seen. There are several Williams Mills in this country and I have never heard of one giving bad satisfaction. Yours truly,
J. P. ROARK.

—o—

"The Williams Mill is the acme of perfection in the art of corn grinding. It is the best mill that money can buy."

THE "O. K." WAGON YARD.
Paul's Valley, Okla.

—o—

"The 20-inch corn mill I bought from you some two or three years ago is doing fine work today, and I have never spent a cent for repairs."

W. C. LONG,
Athens, Tenn.

—o—

"I want to tell you that you have the best mill in the world. I have run the mill I bought from you ever since I got it and the rocks haven't ever been sharpened."

J. P. MOORE,
Fayetteville, Tenn.

Testimonials—Continued

Hoadly, Va., Feb. 4, 1918.

The Williams Mill Mfg. Co.,
Gentlemen:

Last fall I bought from the Implement Co. of Richmond, Va., one of your mills, 20-inch, and have been doing fine work with it, and it makes the finest table corn meal I ever ate. I have ground some buckwheat and made some whole wheat flour, which both was O. K., only a little dark. I am more than pleased with the mill, as I am getting more custom work than I can do.

Please send me the price on a bolter and diagram of same, for making buckwheat flour and whole wheat flour.

Yours truly,
W. A. DAVIS.

—o—

"I am using one of your 16-inch mills which gives entire satisfaction to my customers."
E. W. BRINKENS,
Colesburg, Ga.

—o—

"You need not send anybody out here to sell me a Williams Mill as I have already got one. I bought it two years ago. It is the best mill I ever saw."
I. F. TAYLOR, Oakman, Ga.

—o—

"We want the Williams Mill. No other will do, for the writer knows their superiority."
C. F. BABCOCK, Babcock, Ga.

—o—

"The mill is all you claimed it to be and more. I grind six days in the week. Corn comes ten miles and more to my mill. I get all the work I can do."
R. G. INMAN, Cerrogordo, N. C.

—o—

Natchez, Miss., Box 381,
March 18, 1918.

Williams Mill Co.,
Ronda, N. C.
Gentlemen:

We are now using two of your 24-inch mills and are considering installing two more. We find them very satisfactory.

However, we feel that we do not "know it all" about picking the rocks on these mills.

Will you please send us whatever dope you have on the subject; also diagram of the proper depth of grooves, etc. In fact any information you think would be of value to us, and oblige.

Yours with best wishes,
TRUDELL & BOWRON.

"I have been operating one of your mills for nearly three years, and I haven't paid out one cent on the mill. It will do all you claim for it."
R. G. WALSH,
Boomer, N. C.

—o—

"There are five other makes of mills close around me, but I am doing more grinding than all of the others. My mill is the best I ever saw."
W. J. WATSON,
Kershaw, S. C.

—o—

"I have run a mill over three years and I bought this mill over two years ago. It is the best mill I ever saw. My meal took the first premium at the Caldwell County Fair two years ago next fall. Everyone praises my meal."
P. B. WHITENER,
Lenoir, N. C.

—o—

"The mill does good work—am well pleased with it. It cannot be beat for good work. Makes the best meal possible. All my customers are pleased. They all say it is the best mill in the country."
A. E. FLOWERS, Kenton, Tenn.

—o—

"I like your mill fine. I can grind fifty bushels of the finest table meal in a day with a six-horsepower gasoline engine."
FRANK HINSHAW,
Yadkinville, N. C.

—o—

"I bought a mill from you and like it fine. It sure makes good meal."
W. L. Ostwalt, Statesville, N. C.

—o—

Boardman, N. C., Lock Box 53.
March 19th, 1918.

Messrs. Williams Mill Mfg. Co.,
Dear Sirs:

I have been running one of your 20-inch mills since April, 1915, and the mill has given such good satisfaction that the company has decided to buy another one, and I want you to send me your catalogue. I do not want anything else but a Williams Mill, so please let me hear from you at an early date and give me the best prices, and I think it will be but a short time before you get to sell another mill in this town. Hope to hear from you soon.

I remain, Yours truly,
Q. C. FIELDS.