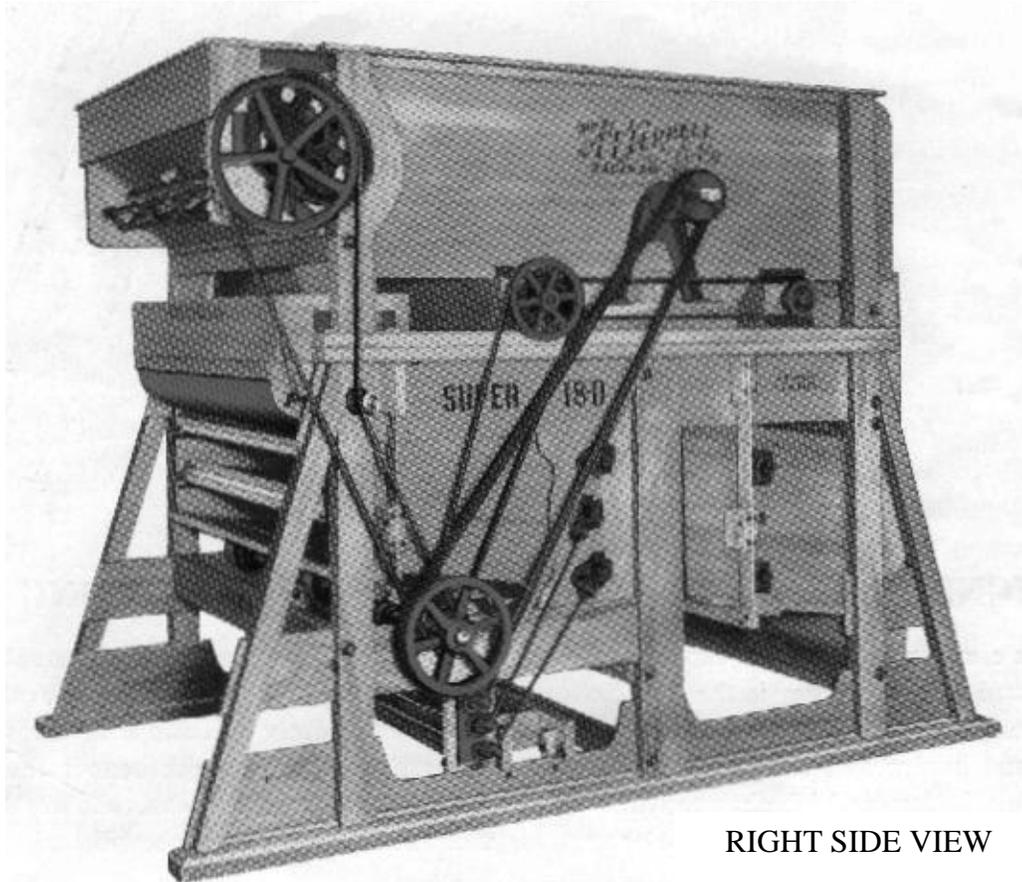


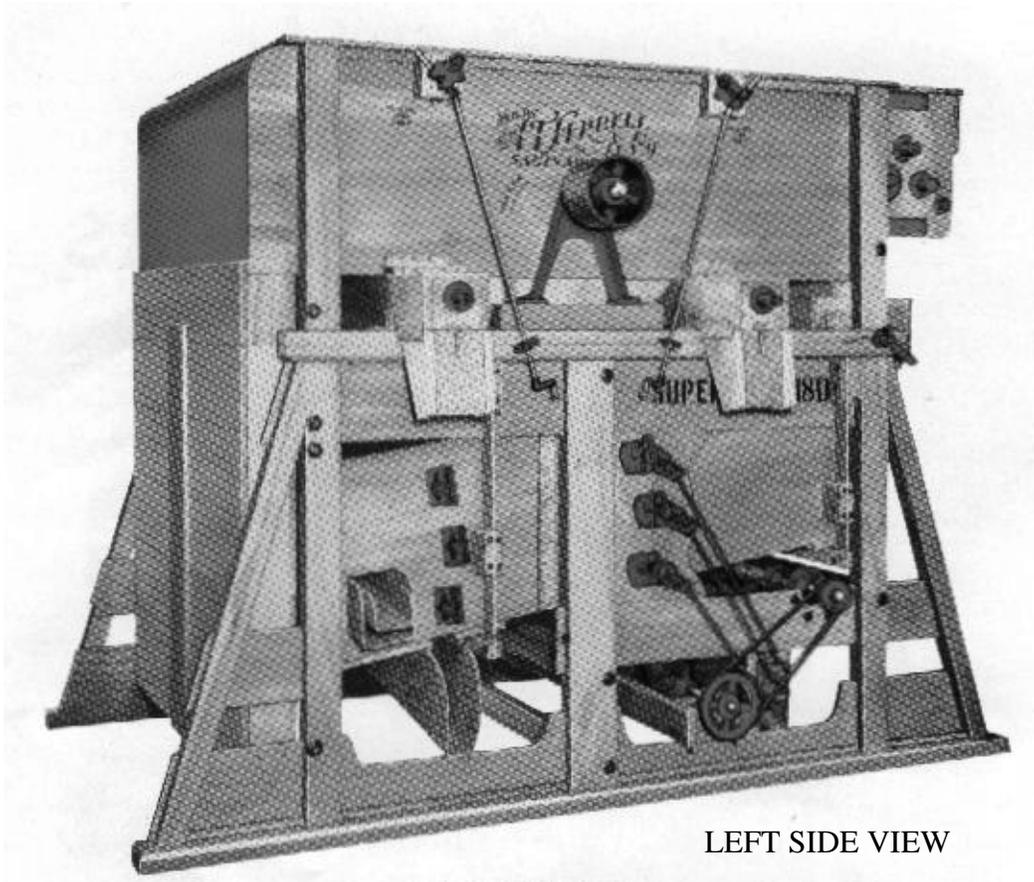
*the new* **CLIPPER  
SUPER 18D  
GRAIN CLEANERS**



RIGHT SIDE VIEW

**A. T. FERRELL & Co.**  
**SAGINAW, MICHIGAN**

# the new CLIPPER SUPER



LEFT SIDE VIEW

## DESIGNED FOR RAPID AND ECONOMICAL HANDLING OF GRAIN

Here is a cleaner designed for especially handy operation as a grain receiving separator. The outstanding feature of this cleaner is the quick change-over device which enables the operator to change the setting for one kind of grain to that for another kind by merely shifting a lever. Oats, wheat, rye, barley and buckwheat can be cleaned without actually changing the screens in the machine, simply by moving the lever- which changes the flow of grain to the proper screens. The air regulation will, of course, have to be adjusted for the change in grain, but that is also accomplished by merely turning a crank.

There are three screens in the cleaner at all times, but only two of them are used at a time. For some grains the top and bottom screens are used and for others the middle and bottom screens are in operation.

## ROLL FEED HOPPER

These cleaners are equipped with the latest improved type of Roll Feed Hopper having a slowly revolving fluted roll which will maintain an even feed across the full width of the screen at all times and prevent any possibility of clogging regardless of the amount of chaff and straw in the grain. This allows the cleaner to be operated at full capacity at all times.

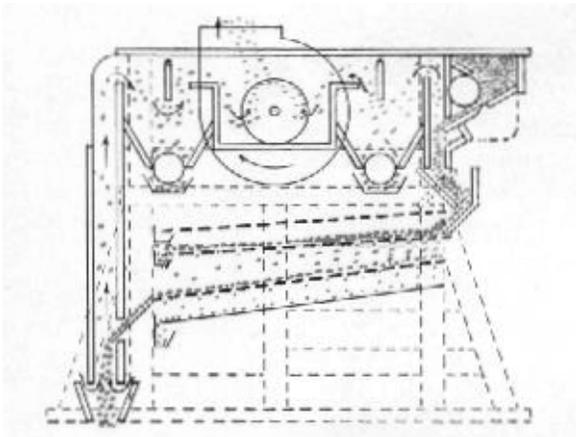
# GRAIN CLEANERS

## POWERFUL THIRTY INCH SUCTION FANS

These Cleaners have two powerful suction fans, one of which is connected by an air leg directly to the hopper so that it removes all light weight trash ahead of the scalper screen, and the other fan is connected to a vertical air column for the final air separation. Each suction fan is separately controlled by a valve with its operating crank close to the spout which delivers the screenings from that air separation, so that both air separation controls can be adjusted by the operator while watching the flow of screenings from the spouts.

## FOUR CLEANING OPERATIONS

1. Grain enters the Roll Feed Hopper.
2. Passes through Suction Chamber where all light bulky waste is drawn off.
3. Passes through scalper screen where heavy trash and foreign matter is screened off.
4. Passes over bottom screen where dirt, and all small foreign material is screened out.
5. Passes through vertical air column of a second suction fan where light weight kernels and all remaining waste is drawn off.
6. Delivered as clean, plump and full sized grain at the bottom rear of the cleaner.

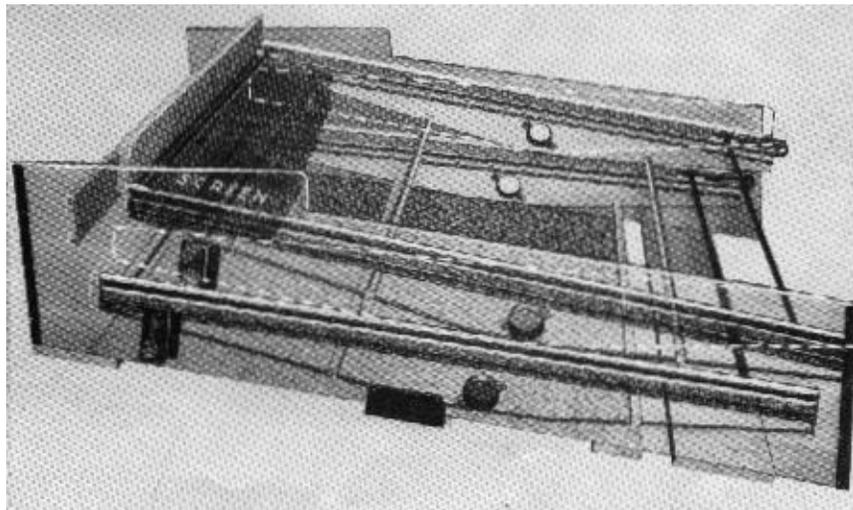


Showing Cleaning Operations

Thus in one passage through the machine the grain is subjected to four cleaning operations consisting of two air separations by suction and two separations by vibrating screens to insure the complete removal of all light weight grain, chaff and foreign matter.

## ADJUSTABLE PITCH SCREENS

Each screen is independently adjustable in pitch from a 6 degree minimum angle to 12 degrees maximum by means of a rack and pinion and can be securely locked at any point. The brushes automatically tilt with the screens and the spouts are made to accommodate all screen positions without change. Screens may be withdrawn or inserted at any pitch angle.



Showing Screen Pitch Adjustment

# CLIPPER SUPER GRAIN CLEANERS

## NEW INSTANTANEOUS BRUSH ADJUSTMENT

Instantaneous in action, positive locking in position, simplicity of construction with no chance of getting out of order—these are the features of our latest device for raising and lowering the brushes in changing screens, and for adjusting the brushes to compensate for normal wear. Simply lift out the spring plunger and swing the lever a notch for adjustment, or all the way for lowering the brushes. That's all there is to it, and the brushes go back into the same position every time unless intentionally changed.

As the two brushes do not vibrate with the screen but travel slowly sidewise across its underside, the two movements are combined to form a dual brushing action which is very effective in keeping the screen clean.

## CONSTRUCTION

CLIPPER Cleaners are built to be outstanding values. Only the finest of materials and craftsmanship go into their construction. The frames are strongly built of selected hard woods with mortised joints and through bolts wherever possible. The screenways in the shoes are metal lined and all wood parts subject to the abrasive action of the commodity are covered with sheet metal.

All main shafts are of ground and polished steel and run on the highest grade ball bearings. All eccentrics are likewise ball bearing equipped and completely enclosed. All bearings in the brush carrier and brush cord pulleys are of self lubricating bronze.

Flat belts have been eliminated and new short center V-belt drives have been designed to take their place, with a resultant increase in efficiency and quietness in operation as well as improved appearance.

## EQUIPMENT

Each cleaner is equipped with a full set of screening spouts which conduct the screenings to the rear end of the machine on the operating side. A hopper shaped floor collar is furnished to conduct clean grain through the floor and at the same time allow a current of air to be drawn into the vertical air column. A pressure grease gun is supplied for lubricating the bearings which are all fitted with Alemite connections. An 8 x 6 drive pulley is furnished and an 8 x 6 ball bearing loose pulley can be supplied at \$25.00 extra,

## SPECIFICATIONS

Code Word	SUPER CARGO	Width on Floor (inches)	66
Screen Size inches	54 x 60	Width Between Sills (inches)	58
Bushels per Hour	600-1000	Height to Where Grain Enters (inches)	88
Number of Screens in Cleaner	3	Height to Drive (Fan) Pulley (inches)	72
Number of Screens Furnished	6	Drive Pulley Size (inches)	8 x 6
Extreme Height (inches)	91	Drive Pulley Speed (R.P.M.)	900
Extreme length (inches)	113	Horsepower Required	5
Extreme Width (inches)	88	Shipping Weight (pounds)	2500
Length on Floor (inches)	113		

Showing Brush Adjustment

