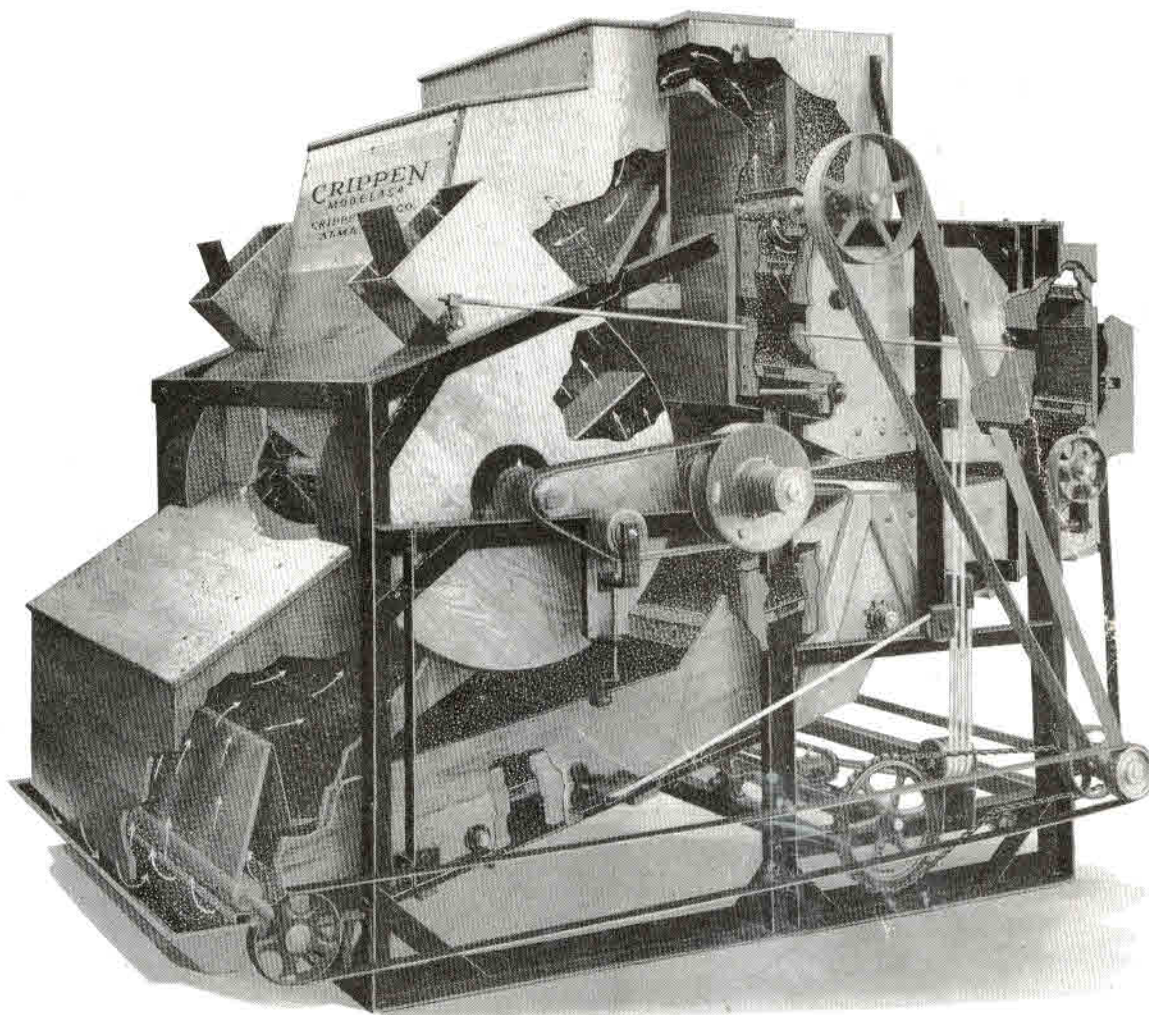


# CRIPPEN Models H434A, H442, H454

( *Left-Hand  
Sectional View* )



All three models have a clutch feed control on the hopper drive so that the feed can be stopped while the machine is in motion.

A noteworthy feature in all Crippen Cleaners is the fact that the machines are self-cleaning. No mixing between lots. All screenings are carried from the cleaners by self-cleaning spouts; no screw conveyors are used.

These three models have compound shoes. Each shoe carries two screens. The shoes are operated by ball-bearing double eccentrics and run smoothly at all speeds without vibration. Within each shoe are

auxiliary frames which carry the screens. These are pivoted securely to the main shoe. On the inside of these auxiliary frames a pinion and rack are employed to effect the adjustment of the screens. (See second screen in illustration.) These are operated by means of a small hand wheel.

The screens slide in and rest on steel ways the same as in all Crippen Cleaners. The screens can easily and quickly be changed from the front end of the cleaner. The screens are positioned the same as those shown in the phantom view on Page 9, but in these models they are adjustable for pitch, with variable speed shake.

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# CRIPPEN Air Principle Illustrated

A study of these illustrations will explain why Crippen Cleaners have air separations that are so highly efficient.

Compare the highest point of air pressure in the Crippen separating chamber or flue with the equal point of pressure in the usual type of flue. All Crippen Cleaners have this maximum point of air pressure right where it is needed to insure maximum air separation work.

Crippen air flues are open to atmospheric pressure at one point only. That point is directly underneath the stock as it enters the chamber. When even a limited amount of air is allowed to pass into the flue with or over the stream, as it is in the common method, it causes the highest point of air pressure to occur above the grain and therefore defeats the very principle necessary to effectively weigh and separate the stock.

Our patented air seal and flue construction shown in the left-hand illustration automatically seals out the air and makes it impossible for air to pass into the chamber with the stock. The air seal roll is covered with very soft and durable rubber. As the roll turns it passes the stock through underneath it.

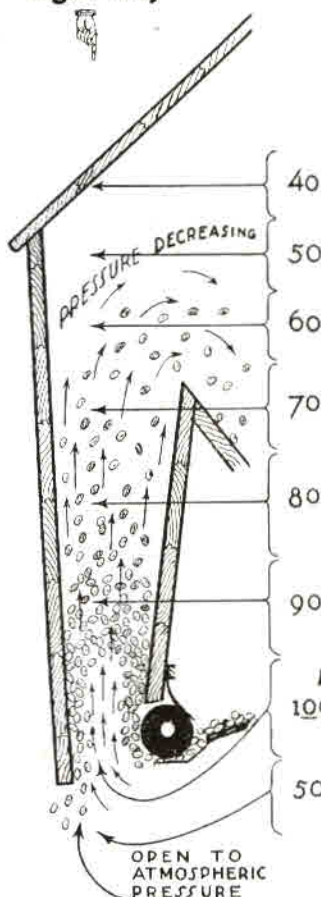
The gate underneath the roll is hinged and is held close to the roll by means of springs. These springs permit the gate to open to automatically accommodate any flow of feed or grain. This method automatically forces all of the air to come up through the stream and gives the highest point of pressure underneath the grain so that it can be carried up into the separating chamber.

As the air passes upward through the expanded chamber, the pressure decreases. This effects close air-weighing of the stock, separating the lighter from the heavier. The heavier stock cannot continue upward in this diminishing air pressure, and so it reverses its direction, and because of the added momentum in falling, passes down through the air and out. The lighter material continues upward and is delivered into a self-cleaning trough spouted from the machine.

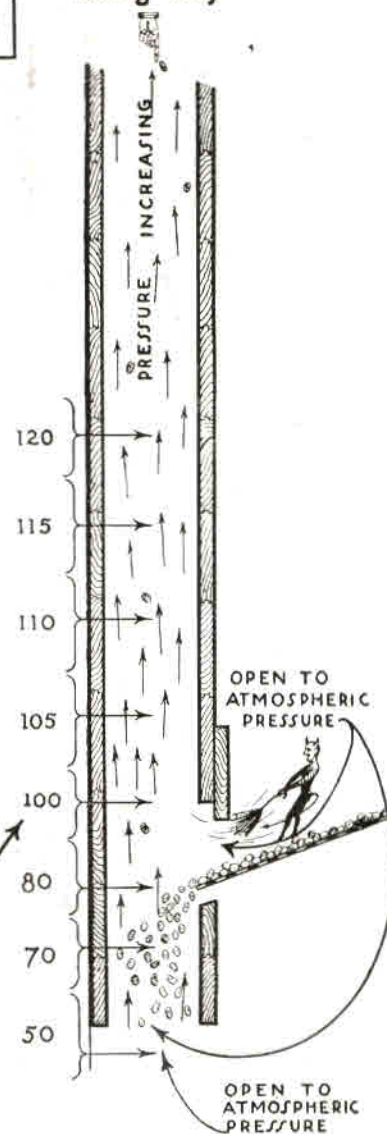
SCIENTIFICALLY  
DESIGNED

## CRIPPEN

Right Way



Wrong Way



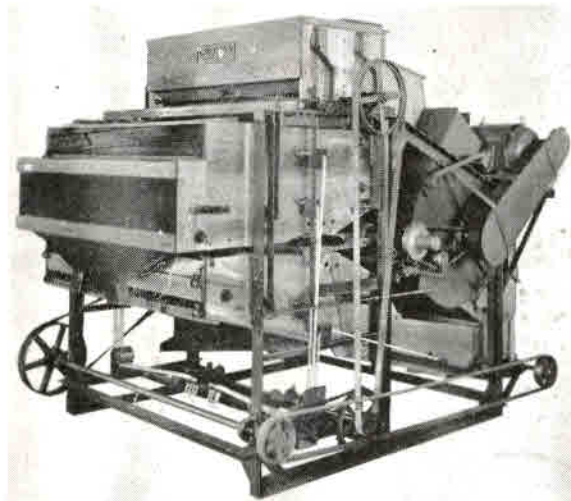
Crippen fans are mounted near the point of separation. Each operation has its own individual fan. Each air separation is controlled by a control valve or gate located in the outlet of the fan. This valve is adjusted by a screw control conveniently located. This type of control insures a steady and even flow of air at all settings. Air eddy currents and varying pressures caused by other types of controls are entirely eliminated in this construction. The sectional view on preceding page clearly illustrates these features.

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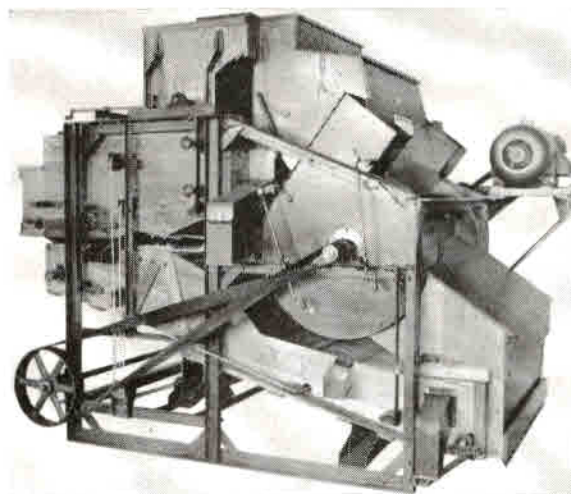
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# CRIPPEN Models H434A, H442, H454

(Right-Hand View)



LH SCREENING OUTLETS



RH SCREENING OUTLETS

These Crippen Cleaners are without question the finest cleaners ever designed. They are the only Cleaners built that incorporate the correct arrangement of screens, flexibility and adaptability for all kinds of cleaning and grading. Their design and construction assures superior performance, sharper and finer grading of the smaller seeds as well as grain, beans, etc. Only the question of capacity need be decided in selecting one of these Cleaners.

The screens, arranged and placed as they are, adjustable for pitch and variable for shake, enables the operator to use one, two or three screens for either scalping or bottom work, as desired. He can operate the screens in the following manner:

1st screen, scalper; 2nd, 3rd and 4th screens, fine grading.

1st and 2nd screen, scalper; 3rd and 4th for fine grading.

1st, 2nd and 3rd screens, scalper; 4th for fine grading.

1st, scalper; 2nd, grading; 3rd, scalper; 4th, fine grading.

CRIPPEN Cleaners are compact, easy to install and operate. They are remarkable in performance, balance and construction. All screens are interchangeable for position in each model. Note their visibility.

There are two traveling brushes under each screen which always keeps them clean. The brushes adjust automatically with the pitch of the screens and have a four-point adjustment for alignment and wear.

Combined with this superior and exclusive performance is our patented air construction which is explained on Page 9.

Every important feature contained in our other Crippen Models is retained in these. Frame extensions are supplied at small additional cost when operator wishes to retain screenings and air separations on cleaner floor in stead of cutting holes in the floor. These extensions allow the use of baskets or other suitable containers to retain the seed discharged from spouts which normally would be too close to the floor.

Fans can be set to discharge to the rear, stright up or toward the front of the cleaner. Screening and air spouts built for either left or right hand discharge. Motor mounted on cleaner frame with V-Belt drive supplied at nominal additional cost.

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