1889 10.00

THE COLUMBIAN PRINTING CO. COLUMBUS, O.

PRICE LIST OF THE
VICTOR DOUBLE HULLER CLOVER MACHINE,

COMPLETE AND IN PARTS,

Delivered on Board of Cars at the Factory.

No. 2.

Belt Huller complete, is the smallest size, with 20½ in. cylinder, width of separator 28½ inches and includes elevator, wagon, brake, neck yoke, double and single trees, stacker, and Grube's new patent seed cleaner..**$430 00**

No. 3.

Belt Huller complete, is second in size, with 27½ inch cylinder, width of separator, 35½ inches, and includes elevator, wagon, brake, neck yoke, double and single trees, stacker, and Grube's new patent seed cleaner..**$460.00**

No. 4.

Belt Huller complete, is the largest size, with 34½ inch cylinder, width of separator, 42½ inches, and includes elevator, wagon, brake, neck yoke, double and single trees, stacker, and Grube's new patent seed cleaner..**$475.00**

☞ Prices of Parts of Machines which can be sold separate, or when included in the above prices, can be deducted from the price of Machines if not wanted by customers:

Wagon with thimble skein, neck-yoke, double and single-trees	**35.00**
Brake for wagon	**5.00**
Grube's patent seed cleaner, with elevator, that can be put on either size of machine	**25.00**
Patent Folding Stacker, 15 feet long, with 14-inch belt on conveyor	**25.00**

PRICES OF LARGE BELTING AND JACKS.

Forty feet best quality of leather belting, 5 inches wide	**$20.00**
Forty feet best quality of leather belting, 4 inches wide	**15.00**
Forty feet Agricultural leather belting 4 inches wide...	**12.00**
Forty feet gum belting, 5 inches wide	**12.00**
Forty feet gum belting, 4 inches wide	**10.00**

TERMS OF PAYMENT.—One hundred dollars cash when the machine is delivered, or when started to work; balance settled at the same time, with two good, satisfactorily endorsed notes of equal value each, payable one-half December first or January first, next, and the other half one year thereafter, bearing the highest rate of legal interest from date in the State in which they are sold, and payable at nearest bank. Said notes to be secured by chattel mortgage on the Huller, and first mortgage on other real or personal property to the value of at least six hundred dollars.

No. 2 Huller can be run with four-horse tread power or eight horse lever power; No. 3 Huller can be run with ten horse power or eight horse engine; No. 4 can be run with eight or ten horse engine.

WARRANTY.—We warrant our VICTOR DOUBLE HULLER CLOVER MACHINE to be well made and well finished, with good material, and against all breaks from defect in material or construction, for one season, and to stem, hull and clean as much clover seed in the same length of time and under the same circumstances as any other machine in the world, and clean it fit for any market, when it has on one of our patent Grube seed cleaner placed in the hands a competent operator.

J. P. McCUNE, President. F. S. WRIGHT, Treasurer. JOHN N. KAILOR, Gen. Sup't and Purchasing Agt.
F. J. PICARD, Vice-President. J. M. KNODLE, Secretary.

THE NEWARK MACHINE COMPANY,

(Organized under the General Laws of Ohio, July 27, 1881.)

COLUMBUS, OHIO.

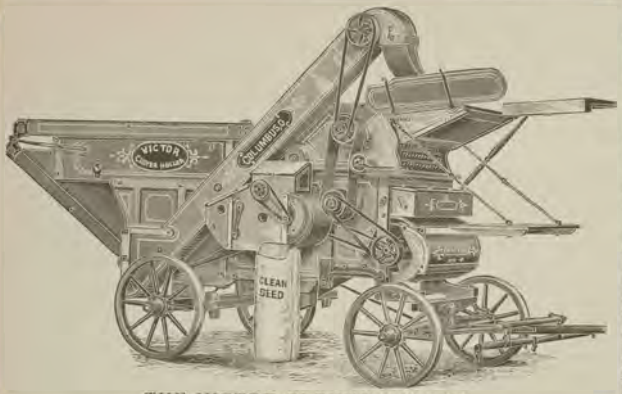
IN presenting to our friends and customers our Annual Catalogue for 1889, we desire to thank them for the generous patronage extended to us in the past. It will be our earnest desire at all times to supply our customers with machines that are correct in principle, substantially built of the best material, and nicely finished. We have two specialties, the VICTOR CLOVER HULLER and the IMPERIAL STRAW STACKER. Of the former but little need be said, as it has a reputation which no other machine of the kind has attained, and our trade extends to all parts of the country where clover is grown, and not only in this, but in foreign countries. This machine has been manufactured by ourselves and our predecessors for the past twenty-six years, and during that time valuable improvements were continually added, and our machine for the 1889 trade is about as near perfect as it can be made. We commenced the manufacture of the Imperial Straw Stacker four years ago, and in that short space of time a demand has been created for it which was indeed a surprise to us, and far exceeded our most sanguine expectations, showing conclusively that there is a ready demand and sale for machines that will do in a thorough manner, the work for which they are intended. For the information of those unacquainted with our machines we give a brief description in the following pages. For the accommodation of our customers we have branch houses at the following places:

Indianapolis, Ind. St. Louis, Mo. Peoria, Ills. Kansas City, Mo. Minneapolis, Minn.
Milwaukee, Wis. Nashville, Tenn. Detroit, Mich. Hagerstown, Md.

Where our machines and repairs are constantly kept in stock. We solicit correspondence from those who are contemplating purchases in our line and will cheerfully give them any desired information in regard to our machines.

Respectfully,

THE NEWARK MACHINE CO.
COLUMBUS, OHIO.



THE VICTOR CLOVER HULLER.

THE above cut shows the latest IMPROVED VICTOR DOUBLE HULLER CLOVER MACHINE as it is now built and as it will be furnished the trade for 1889. It will be seen that the machine is compactly and substantially built and thoroughly well proportioned throughout, its construction being compact and symmetrical. The machine is built of the very best materials obtainable; and neither money nor pains are spared in its construction. It is finished in the best manner and painted thoroughly and handsomely, so that its appearance is in keeping with its other excellent and unsurpassed qualities.

A glance at the above cut will show that some important changes have been made on the Victor Clover Huller since our last catalogue was issued. A very important one is the arched sill to facilitate the turning of the wagon, by which the front wheels can be turned under the Huller and the Huller turned square around on a very small space, same as a platform wagon. Another important change is in the Conveyor or Screw-box, in the rear of the machine. This was heretofore attached separately to the machine by means of hooks, etc., and had the lower end of the Stacker attached to it; and while it answered the purpose very well, we desired something more substantial and durable, and on the Hullers which we build for our 1889 trade this Conveyor or Screw-box will be built in solid with the machine (and not attached to it) and the lower end of the Stacker will be attached to the sill of the machine, thus making this part of the machine much stronger and more durable, and holding the Stacker firm. Heretofore, when the sieves were to be taken out it was necessary to take the Conveyor or Screw-box off, but now it is only necessary to take the tail-board out. We make our Folding Stacker fifteen feet long this year instead of twelve feet as heretofore, so that the Huller can be used in connection with the Automatic Stacker if desired. Another important change is in the two large pulleys on the upper and lower cylinder shafts. These pulleys, which have heretofore projected out beyond the body of the machine, are now thrown close to the boxes or bearings, which will prevent the shaft from springing, and the journals from becoming heated, and make the cylinder run steadier and do better work, and adds greatly to the general appearance of the machine. Hereafter the Hinges on the Folding Stacker will be made of malleable iron, thus making them stronger. It will be our aim to keep the Victor Huller to the front at all times in the way of improvements, and maintain the high reputation which it has gained for doing good and rapid work.

SPECIAL AND GENERAL FEATURES.

OUR AIM in this pamphlet is to give the reader an intelligent idea of the general construction, character and capacity of the Victor Huller, and to that end we undertake to describe, in detail, some of its most important features. We do this because we assume that a purchaser of a machine that costs as much as a Clover Huller first wants to know all about it. In order to convey to the reader the clearest idea of the construction, characteristics, etc., of the Victor machines, we have had a number of illustrations engraved which exhibit the cylinders, rubbers, concaves, rake bars, rakes, seed cleaner, rake and riddle cranks, etc., which are presented in connection with the description. We commence with—

THE UPPER HULLER.

Upper Under-shot Open Iron-bar Cylinder of the Victor with Steel fluted Rubbers and Steel Shaft.

The upper huller, into which the clover is first fed, has cast-iron sides, which are formed so as to receive the boxes for the cylinder, and the sides to the raker, and the concaves. These sides being made of metal, can not wear out, shrink, warp, rot, and give trouble, which is the case with wooden sides. The huller contains our under-shot, eight-beater open iron cylinder, which has important advantages over the closed or drum cylinder and over the over-shot cylinder. The illustrations on this and the following page, show the construction of our cylinders in both upper and lower hullers.

This is a Cut of the Rubber used in Upper Cylinder.

The rubbers used in these cylinders are of the best quality of steel. They are one and three-fourth inches long from the cylinder, and are ⅞ inches broad. Their backs are thicker than their front edges, and their sides are broad and neatly and obliquely fluted to roughen the surface between them, as they are placed in the cylinder and concaves so that the thin front edges of the rubbers in the cylinders will pass between the thin front edges of the rubbers in the concaves. This cylinder being open, the dust is taken through into the separator, where it is confined and carried out at the rear end of the machine, without the ***additional cost of $18.00 to $20.00 for a duster*** to carry away the dust, and no additional power is required to drive it. This cylinder being open, the ***fluted rubbers*** are put through the beaters with taps on the inside to prevent them coming out, and when necessary to take them out on account of wearing, bending or breaking, or replace them with new ones, it is very conveniently and easily done. We are now using on the inside of these fluted rubbers a washer which entirely prevents the rubber from working loose. This cylinder being under-shot, it is easy fed, and no danger of knocking hard substances into the feeder's face. The concave under the upper cylinder is made in five pieces, which have ***fluted rubbers.*** We also furnish four blanks with each machine so that there can be used one, two, three, four or five concaves with rubbers, according to the toughness or dampness of the clover. These concaves are nailed between the rubbers, with very stout steel shoe nails, leaving the ends project to roughen the surface. The ***rubbers*** in this concave are of the very ***best quality of steel.*** They are 1¾ inches long from the concave and cylinder, and are ⅞ broad. Their backs are thicker than their fronts and their

The Upper Concave and Rubber of the Victor.

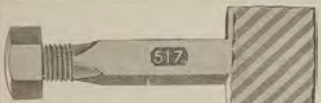
sides are broad and neatly and obliquely fluted to roughen the surface, as they are placed on the concave so the thin front edges of the revolving ***rubbers*** in the cylinder will pass between the thin front edges of the ***rubbers*** in the concave.

This is a Cut of the Rubber used in Upper Concave.

RUBBING PROCESS.—The clover seed in the pods is rubbed off by the upper cylinder, and the seed rubbed out in part by the diminishing of the space between the front edges of the ***rubbers*** to the corner of their backs as they pass each other with their fluted sides, by the revolution of the cylinder. The process is such that it will rub off the pods and rub out the seed very effectually as fast as it can be fed into the machine, thus separating the pods from the head much more effectually than they can be threshed or knocked off with the ordinary smooth or wheat-threshing spikes that are used in all other makes of hullers.


Lower Open Iron-bar Cylinder of the Victor, with Steel Fluted Rubbers and Steel Shaft.

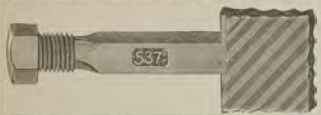
THE LOWER HULLER.—Into this part of the machine the clover seed is carried by the rakes or separator, after being separated from the stems. This Huller is very substantially constructed, with four heavy posts, which are bolted to the sills at the lower end, and to which the wooden sides are fastened with screws. The ties are very strong and substantial, three in number, to which the four posts are bolted with heavy bolts. The tie to which the rear posts are bolted is placed in such a position that it does not interfere with the wind from the fan to the screens, or in bringing the concave to the rear of the huller in such a manner that a sharp corner is formed, over which the clover is thrown from the cylinder to the screens in the cleaner, which prevents it from choking when hulling damp clover. The feed board at the mouth of this huller forms the fourth tie, to which the posts are also bolted with heavy bolts, same as to the other ties. To these wooden sides and posts cast-iron sides are screwed and bolted. These cast sides have seats cast to them to carry the cylinder boxes and also large wide grooves for the concaves cast together, the cylinder and concaves being thus always held permanently in their positions, which is very important, as the ends of the ***rubbers*** in the concaves work close to the body of the cylinder, and the ends of the ***rubbers*** in the cylinder work close to the concave so that the least moving of the cylinder and concave toward each other may cause the machine to cut good seed, which is objectionable—something our huller does not do if in order. The top of this huller is also framed together very strong with broad, heavy ties and rails, to which the upper part of the cast sides are fastened, which also have large wide grooves into which part of the concaves are fitted. The side rails of this top are bolted down on top of the four posts, which assists in keeping the huller together.



This is a Cut of Rubbers used in Lower Cylinder.

Making the lower cylinder open in a combined clover huller is something *new, novel and useful.* Heretofore the lower cylinder in combined clover machines has been made solid, or closed up all around, leaving no way to get at the inside of the beaters except at the end, and the iron cylinder heads on which the beaters are fastened being necessarily small, there could not be any opening in them large enough to do any work in the inside; therefore the ***rubbers*** could not have taps put on them to be securely fastened. The consequence was, if the holes for the rubbers were bored a little large for the quality of the wood in one or more of the beaters, or if the wood in one or more of the beaters would be a little heavier, or if the rubbers were moved a little too much by setting or by something getting in the huller which was hard, or tough,

or both, they will become loose and come out a little and cut grooves in the concave, or come entirely out and get into the huller and break out a number of **rubbers**, and loosen others (**which, if fixed up and started again, would, in all probability, fly out and cause the same trouble again**), or ruin some or all of your concaves, or ruin your cylinder by bursting out one or more of the beaters, or ruin both concave and cylinder, and by such breaks cause you endless trouble and expense, loss of time, and probably the loss of the reputation of your huller. All this is obviated by our open cylinder. The rubbers are held securely on the beaters and have no chance to work loose and cause mischief. Another advantage in making the lower cylinder open is that the **rubbers** in the lower cylinder wear out oftener than those in the upper cylinder—probably in hulling two or three years, and they can be taken out with ease and replaced with new ones an indefinite number of times without injuring the beaters, while the closed lower cylinder can not be filled in the same holes where the old **rubbers** were, even if you could get the old **rubbers** out without much trouble, and without injuring the cylinder.



This is a Cut of Rubber used in Lower Concave.

On this open cylinder we have a claim, patented March 6, 1877, and no manufacturer of Clover Hullers can build hullers with this cylinder open without infringing on our patent.

The **rubbers** used in these cylinders are of the **best quality**. They are one and one-eighth inches long from the cylinder, and 1½ broad. Their backs are thicker than their fronts, and their sides are broad and neatly and obliquely fluted to roughen the surface, and they are placed on the cylinder and concave so that the thin front edges of the revolving **rubbers** in the cylinder will pass between the thin front edges of the rubbers in the concave.


Cut of the Lower Concaves Fluted Rubbers.

THE CONCAVE AND RUBBERS.

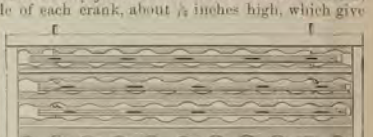
The concave to this huller is in thirteen pieces, in which there are from one hundred and forty-four to two hundred and thirty-one rubbers, according to the size of the huller. In six of these concaves are driven 2 over-stout shoe nails between the rubbers, leaving the end project to roughen the surface. These six form the top and side of the concave.

The rubbers used in this are made of the **best quality of steel**. They are one and one-eighth inches long from the concave, and are 1½ inches broad. Their backs are thicker than their fronts, and their sides are neatly and obliquely fluted to roughen the surface, and they are placed on the cylinder and concave so that the thin front edges of the rubber in the cylinder will pass between the thin front edges of the rubber in the concave.

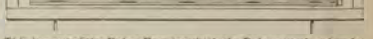
The seed is rubbed out by the diminishing of the space between the front edges of the **rubbers** to the corners of their backs, as they pass each other with their fluted sides by the revolution of the cylinder. The process is one that, as readily seen, will rub out the seed very effectually as fast as it can be fed into the machine, whether wet or dry.

The Separator of the Victor

Into which the clover passes from the first cylinder, has a series of rakes and bevel-notched bars between the rakes, as shown below, all of which are operated by two cranks, which are arranged to run perfectly smooth, without any jar to the machine. On these cranks, just inside of the separator sides, are four knockers cast on the crank, one on each side of each crank, about ⅞ inches high, which give to the knocker frame and bevel-notched bars a jarring motion, that settles the clover pods and seed to the notches and openings between the bars, through which the rakes pass up and down, and back and forth, where they pass through and are very thoroughly separated from the coarser material, and pass under the rakes, the rakes having shorter teeth in the lower edge, and by their forward motion rake the unhulled pods forward and push them with almost irresistible force into the second cylinder, where the hulling is completed. The upper portion of the rakes is reduced in thickness, and they pass up between the bevel-notched bars into the clover. The upper edges are provided with long teeth, which strike through the coarse material, thereby thoroughly separating the seed from the other parts, and carry or rake the coarser stuff to the rear end onto a carrier, where it is taken from the machine. The tops of these rakes being reduced in thickness, the space between the beveled edges is reduced accordingly, thereby preventing much of the stems and coarse matter from getting into the huller that would otherwise get in. *This is of great advantage to the whole machine. It makes it run lighter, wears the huller and sieves less, lessens the liability to choke in any of the parts, especially the elevator.* It makes the belts last longer, and gives less trouble with them while they do last, and makes the whole machine more durable and much more satisfactorily operated, and it especially enables the lower cylinder to effectually complete the work of hulling, so that few unhulled pods go through a second time. The rear end of these rakes is beveled off to prevent them from clogging. By the use of these devices we avoid the objectionable feature in other machines of this class, such as the ordinary shakers, endless nets and aprons for doing this work, which they cannot do cleanly in wet or mouldy clover.



This is a cut of the Raker Bars in which the Rakers work, whereby the separation of the Clover and Chaff from the Seed is made.

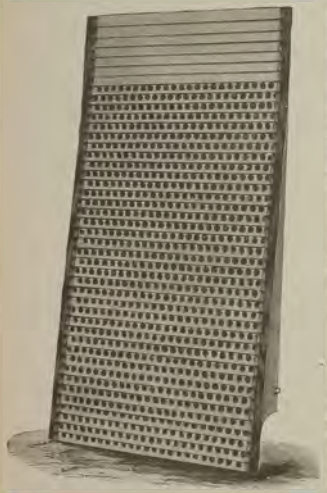


This is a side view of the Rakes that separate the straw from the pods and carries it out at rear end of Huller.

THE RIDDLE AND CLEANER OF THE VICTOR

Has six posts, which are bolted to the sills of the huller and framed into a rail at the upper end, and the end of this rail is framed into and bolted fast to the huller post, which makes a *very solid, stiff* and *substantial* frame. These rails project above the sides of the cleaner and form a recess to receive the raker, which is held to its place firmly by heavy rods which pass through the rails and cleaner under the raker. The sides are made of inch boards, and securely fastened to these posts with *heavy wood screws* and close up entirely the sides of the cleaner, from the sills to the raker, and from the huller to the end of the cleaner, so that no dust can escape at the sides of the machine, or be effected by side winds until it leaves the machine. It has three doors at each side, which can be opened to see the cylinder, oil the pitman boxes, or clean the screen in the shoe. It has a riddle frame, three screens and a shoe.

The two upper screens are 4 ft. 10 in. long and 26 in. wide in the No. 2; 33 in. wide in No. 3; 40 in. wide in No. 4 machine, and are made of woven *steel wire*; the upper has five meshes and the lower eleven meshes to the inch. The riddle frame in which these screens are fastened is driven by two pitmans, one on each side of the cleaner, which connects with a crank shaft, the boxes of which are bolted with four bolts to the rear edge of the rear huller post. This crank shaft has two cranks at each side of the cleaner, to one of each, on each side, the pitmans that drive the shoe are fastened. The two cranks on this shaft that drive the shoe are placed opposite the two that drive the riddle frame, and so balanced that the effects of the motion of the riddle frame and shoe, when in operation, are hardly perceptible, which is not the case when a riddle or shoe is driven by a single crank; in that case the whole machine is shaken, which makes it very unpleasant to the feeder as he gets the same motion as the machine. The riddle frame is hung with iron hangers. This mode of hanging gives a little peculiar shake to the riddle frame and screens or sieves, and with their great length and great width of screening surface (according to the size of the machine) the Victor gets *great capacity* for separating the seed, unhulled pods and chaff from each other, blowing the chaff out, dropping the seed on the shoe, and the unhulled pods into the screw box. The seed is shaken forward to the screen on the shoe, and the unhulled pods conveyed to the elevator. The shoe on which the seed from the screens drop is 5 feet long, 2 feet 4 inches wide for the No. 2, and 2 feet 11 inches wide for the No. 3 machine, and 3 feet 6 inches wide for the No. 4 machine, and has a sieve or screen 3 feet 10 inches long of perforated zinc, through which the seed passes, which separates it from the coarser matter that the fan cannot blow out. It then passes down on the shoe and screen or sieve, and is discharged under the huller. The seed that passes through the screen goes into the small elevator, and is carried up into our new Patent Seed Cleaner that is fastened on the side of the machine, where it is thoroughly re-cleaned. The seed is beautifully cleaned, ready for market; in fact it is made cleaner than can be done on any ordinary fanning mill.



ZINC STEM RIDDLE.

ZINC STEM RIDDLE.

After the clover passes through the upper cylinder, concaves and separator, there are more or less stems (according to the condition of the clover and the separator) get to the lower cylinder, with the clover seed, pods and chaff, and pass around and out from the cylinder onto the wire riddles. The most of them go into the screw box and are returned with unhulled pods to the cylinder again, and continue to be so returned until pulverized or rubbed fine enough to be blown out with the chaff. This returning, rubbing and pulverizing, requires *additional power* and causes extra wear on the whole machine, including the engine or power, and particularly on the rubbers of the upper and lower cylinders and concaves and the leather detainers.

To save as much as possible, this additional power and wear on the huller, as described, we have devised the *Stem Riddle*, represented by the foregoing cut.

This *Riddle* or *Screen* we put in above the wire riddles in the upper shoe in the huller, and fasten it with two bolts, at the outer end, to the sides of the shoe. Upon this riddle the clover seed, pods, chaff and stems are discharged from the lower cylinder, and by the peculiar construction and action of the riddle the seed, pods, chaff and finer stems pass down through the holes while the coarser stems pass out over the riddle and are blown out with the chaff. The stuff that passes through the holes of the screen of course returns to the upper cylinder and is again subjected to the rubbing and pulverizing action of two cylinders and their concaves and leather detainers. This arrangement saves a large amount of power and greatly reduces the wear on the machine.

The Large Elevator on the Victor.

The elevator is 7 inches wide inside, and has one pully at each end, and the net, or carrier, is made with two belts of **standard quality**, 1½ inches wide each, to which the carrier blocks are fastened with screws and nails, and is driven at the upper end from a pulley on the upper cylinder shaft, and carries unhulled pods and other matters from the screw box and discharges them into the upper cylinder. As the discharge is into the upper cylinder, the feeder can, at any time, see whether the belts and parts connected with the elevator are doing their work. He can also see, at any time, whether he is feeding too light or too heavy by the stuff returned. These advantages can not be had when the elevator discharges in the side of the machine or out of the sight of the feeder.

The Victor's New Mill, or Seed Re-cleaner. Grube's patent.

PATENTED—
Dec. 7, 1880.
Jan. 17, 1882.
Feb. 9, 1883.

OUR NEW MILL.

Description of our Victor Grube Patent Re-cleaner and Elevator for Attaching to Clover Huller.

It is 35½ inches long from out to out, and 24 inches high, including upper hopper, into which the seed is discharged from the huller by an elevator. It has a small hopper and spout underneath attached to bottom of Re-cleaner, into which the seed goes after being cleaned, and from which it runs into the bag. The bag is attached to the Re-cleaner by hooks, and is easily and conveniently put on and taken off. It has four woven wire sieves or screens, which are arranged and so constructed with the equalizer as to make the seed cleaner than can be done on an ordinary fanning mill. One of the screens is fine enough to take out sand that is finer than clover seed. Just inside of the opening

in the hopper through which the seed passes on to the sieves, we have a feeder with three wings or flyers, which have a slow motion that makes the seed pass more regularly to the screens, and causes less seed to go over into the tailings. **The Patent Equalizer** consists of six thin wooden slats, running crosswise under the two upper sieves; the slats are all set on an angle with the upper sieves, and each slat is made narrower toward the flyers, and spaced about two inches apart, so that each slat catches an equal portion of wind as it passes from the flyers to the outer end of sieves, and is forced by the action of the fan up through the sieves and out, by the angling position of the Equalizer slats. The shoe to the Re-cleaner which holds the Patent Equalizer and sieves has an end shake, and is hung at rear end with two springs, and at the front end with pitmans that are bolted firmly to the shoe, and extends forward to the eccentric on fan shaft, which gives the shoe the end shake. The lower, or sand sieve, has an additional shake or jarring motion to that shake or motion given it by the shoe, which is important for keeping the sieves clean. The upper hopper has a slide in rear to regulate the feed to the sieves; the tail board can be raised or lowered to suit the speed and condition of the clover. The Re-cleaner is fastened to the huller by four cast-iron feet screwed fast to the post and rail of the huller and Re-cleaner with three lag screws and one of the huller post bolts. The Re-cleaner is driven from the large fan shaft with a one and a half inch belt onto a six-inch diameter pulley. The feed elevator bucket belt is two inches wide, and the buckets are made of sheet iron and fastened to the belt with rivets. There are iron pulleys for the bucket belt to run on, and the elevator is fastened between the Re-cleaner and huller to the side and rail of the huller, and driven from feeder shaft of Re-cleaner by a sprocket chain.

At the rear of the Re-cleaner where the tailings come down is attached a spout, a portion of which is shown by cut, (marked "Patent Applied for,") through which the tailings are conveyed to the large elevator, which elevates and discharges them into the upper cylinder. They then pass through both cylinders and are subjected to the rubbing process, by which the seed is rubbed from the unhulled pods. This process also pulverizes and scatters the tailings among the other clover, which gives the huller and Re-cleaner a better chance to get rid of any remaining stems or other matter, by carrying them out with the straw and blowing them out with the chaff, than could be had in any other way. The Re-cleaner and elevator can be attached to any of our old hullers. Printed directions to attach and operate both the cleaner and elevator accompany each one.

Shakers, Endless Aprons and Nets on Other Makes of Hullers.

The shakers, endless aprons and nets have been in use many years. The *shaker frames rack*, the bottom boards *warp* and *split*, and being bored full of holes, they break. The crank pin *wears flat on one side (which is impossible to avoid)*, to which the box can not be closed, as the pin or journal is *not round*, and having too much play, it *hammers, jars* and *knocks* until something must give way. At first they seem to work very well but in a short time they begin to get a little play, and then wear faster and faster, until it is so *troublesome* and *expensive* to keep in order that the owner sells it or abandons it as *worthless*, as it causes so much delay, trouble, vexation and expense. The endless aprons and nets *stretch, slip* on the pulleys, *stop, choke up, run crooked, get dry*, and *break, wear out*, wear the *bottoms out*, over which *they drag*, cause the machine to run harder, and cause a great deal of *trouble, annoyance and expense*, and this trouble, annoyance and expense can not be avoided when such old devices are used. Besides this trouble, annoyance and expense they require a great deal of attention and labor to work them and have them do their work with any degree of satisfaction, while with our new devices there are only four journals to oil, which is very conveniently done from the outside, and one 2-inch belt running from a 3-inch feathered pulley on the cylinder to a 17-inch diameter wheel on the crank, which does its work with ease, and is therefore easily kept in order, and with little or *no expense*, which does all the work of separating and carrying off the stems and conveying the seed to the lower cylinder. Our new device lasts for years and very rarely wears out.

Old Hulling Devices on Other Machines.

THERE have been a great many different kind of ***rubbers*** tried, such as punched sheet iron, punched strap iron *(or rasp)*, shoe nail in cylinder and concave, and rough cast iron concaves. These have all been *very objectionable*.

Differently Constructed Clover Machines.

The difference between the ***Victor*** Double Huller Clover Machine and the style commonly used for the last fifteen years by other manufacturers of clover hullers is plain. Those were built on the theory of making the first cylinder a pure thresher, so as to simply knock off the pods, leaving all of the hulling to be completed below in the second cylinder. Hence the first cylinder is made with smooth spikes, or knockers, and a very narrow concave.

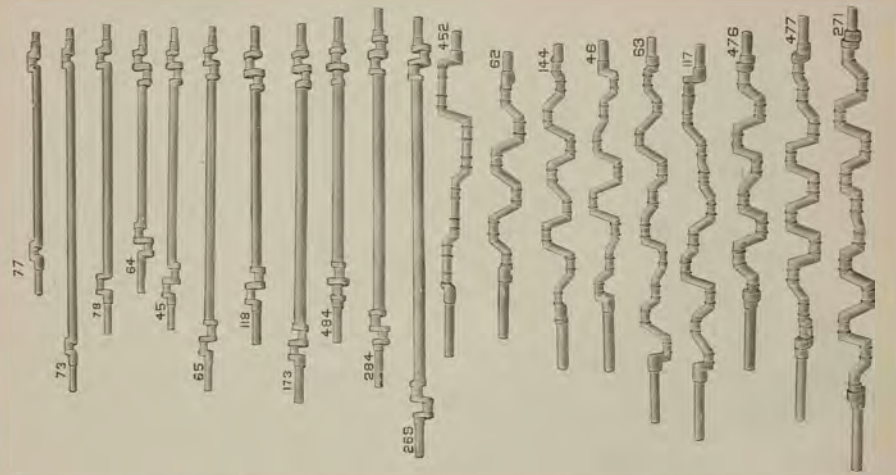
The machines that we now offer are made on the plan of hulling out as much seed as possible in the first cylinder, so that the second one may have only the tough pods to work upon, and thus more effectually hull them than was possible where all the hulling had to be done in one cylinder, which is the case with all other makes of hullers.

Our new machine is built on the new theory, and is much superior to the old, and which is secured to us by our patents dated March 6th, 1877, January 6th and 20th, 1885, and, as made, can do more work and do it better than any machines ever before offered to the public, in wet or dry clover, and in all kinds of weather. To substantiate, if necessary, what we herein claim for the ***Victor*** Double Huller Clover Machine, we give you a few letters of recommendation from some who have purchased and used them in the last few years. See for yourself that what we and they say is correct. In giving this circular and these letters of praise and recommendation, we do not wish to deceive, but inform and strengthen the conviction of others who wish to buy, and teach them to believe we have the best, and that they are a good investment—the best that can be made and the best machine to make money with. This is said by all manufacturers. All we ask is, give us a trial; if you do not like it, you need not buy it, as that is the way we sell them under our warranty, which find on first inside page of cover; please read.

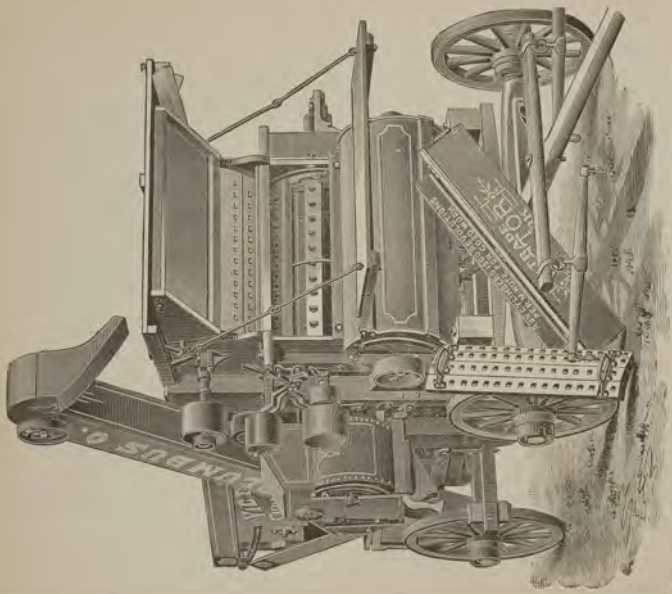
GENERAL REMARKS.

We have given you as full a description of our Huller on previous pages as was possible to do, and furnish such illustrative cuts of the different parts as could well be photographed, from which we have had impressions taken and printed therein. There is very little about a Victor Huller that needs repair for years. We have often been asked: Has your Huller rasps in in it? We answer: No; none whatever; and we have put a cut of different kinds of Rubbers which we use in Cylinder and Concave, in the front of this book. The lifetime of a Rubber in upper Cylinder and Concave is from five to six years, and costs but little expense or trouble to replace them, unless a stone or iron is run through them. The lifetime of Rubbers used in lower Cylinder and Concaves ranges from three to four years, unless a stone or iron is run through them; it also depends upon the quantity of seed that is hulled.

The Victor is the lightest running huller ever made. The Victor is the only huller that has two ulling cylinders. The Victor is the only huller that does not crack or grind seed.



The cuts herewith given show the different sized Rake and Riddle Cranks used on the "Victor." They are all numbered, and parties breaking cranks can order by these numbers.



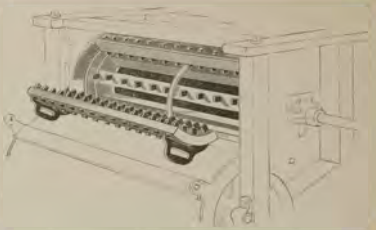
THE VICTOR DOUBLE HULLER WITH OPEN FRONT.

THE above illustration, giving a front view of the Victor Double Huller Clover Machine as it is now made by us, shows a most valuable feature. We refer to the ***Open Front.*** This feature went into general use the past season. The cut shows the front and a section of the lower concave taken out and placed on the ground in front of the machine, leaving the lower open cylinder exposed to view. To open the front in the way provided by this new arrangement is the work of a moment only, and to get at the lower cylinder and take out the concaves it is necessary neither to consume any time nor to tear the Huller apart. Every thresherman will understand readily what this advantage means and will heartily appreciate the improvement. All operators know what an undertaking it is to get at the cylinders in the old way when anything happens that makes it necessary to examine them or do anything with them, and when it was necessary to take off nearly the whole front of the machine. They hailed with delight our new arrangement which obviates all the old trouble, delay, expense, etc. This very valuable feature is found only on the "Victor," and is patented by us and no other manufacturers have a right to use it.

SEE SMALL CUT ON PAGE 13.

LOWER HULLER,

WITH SECTION OF CONCAVE TAKEN OUT.



THE accompanying view illustrates, in part, the beauty of our "Open Front" arrangement. It requires only a minute or two to remove the open front and take out a section of the concave, when the whole cylinder is exposed to view and any part of it can be gotten at without the least trouble or loss of time. A convenience possessed by no other machine. SEE LARGE CUT ON PAGE 12.

The above Cut shows the Arrangement of the Belts on the Victor.

HULLER TESTIMONIALS.

WE GIVE below a few of the many testimonials we have received from practical threshermen in different parts of the country, and you can see what they have to say in reference to the merits of the Victor Clover Huller. We have hundreds of them from all sections of the country but lack of space prevents our publishing but a few of them from the different States so as to give the thresherman who is unacquainted with the Victor Huller an opportunity to judge from the experience of others as to what the Victor Huller will do.

OHIO.

Hamilton, Ohio, June 3, 1887.

Newark Machine Co., Columbus, Ohio:

Gentlemen: I bought one of your No. 4 hullers from Barcky & Stevenson, of Hamilton, Ohio, and we run it all year without being delayed one bit, and hulled for new who have had their hulling done by other hullers and they like the Victor much the best. We would not give the Victor for two hullers of another make. We can safely say to any one who is in need of a huller to not look at the prices but buy a Victor and they will find it the cheapest in the end. Yours truly,

G. W. DRAKE, JAMES HAWK.

Dalton, Ohio, Jan. 18, 1887.

Newark Manufacturing Co., Columbus, Ohio:

Gentlemen: The Victor Huller we bought of E. Wenger & Son, this season, has given entire satisfaction in every respect. As a huller and seed cleaner it can't be beat. The Victor is the best in the market. Respectfully,

WOODS & McCLELLAND.

Tiffin, Ohio, Aug 23, 1886.

Newark Machine Co., Columbus, Ohio:

Gentlemen: The No. 4 huller I bought of you in 1877, is still in the field and doing good work. It has cost but $12.00 in all that time, and that was for new rubbers for the lower set under. We hulled 22½ bushels in 4 hours on it last year, and seed was poor. We have hulled over 4,000 bushels of seed on it.

Yours respectfully, S. W. HOKE & J. C. GOUD.

Shreve, Ohio, Dec. 25, 1886.

Newark Machine Co., Columbus, Ohio:

Gentlemen: I think the Victor is the best huller made. We hulled 29 bushes in three hours. We can hull 80 or 90 bushels in a day. My huller cleans the seed for market. The farmers say they never saw the like. I started the huller myself without any assistance from the agent. Yours truly, EUGENE MOHN.

Brimfield, Ohio, December 29, 1886.

Newark Machine Co., Columbus, Ohio:

Dear Sirs: The Victor Huller is by far the best we ever used. I can hull 10 bushels an hour. I hulled 600 bushels this season, and had a very poor season for clover.. Yours truly, J. P. LILL.

Baltic, Ohio, Jan. 3, 1887.

Newark Machine Co., Columbus, Ohio:

Gentlemen: We like the Victor Huller we bought of you. We hulled 28 bushels of seed in about 2½ hours. The Victor takes the lead in this country.

Yours respectfully, MADISON & THOMAS.

Greenfield, Ohio, Dec. 18, 1886.

Newark Machine Co., Columbus, Ohio:

Gents: Your huller gave the best of satisfaction. I have hulled this season, 500 bushels, and can hull 90 bushels per day. Yours truly, WM. HOULTON.

Wooster, Ohio, January 5, 1887.

Newark Machine Co., Columbus, Ohio:

Gentlemen: We can't praise the Victor enough. We hulled 16 bushels in 4 hours. We could hull 150 bushels in a day if we had it to hull. It did not cost a cent for repairs, and runs like a sewing machine. Yours truly,

D. E. & L. SNYDER.

Millersport, Ohio, Jan. 9, 1887.

Newark Machine Co., Columbus, Ohio:

Gentlemen: I like the Victor Huller very much. I have hulled as high as 9 bushels of seed in 45 minutes in good clover. Yours truly,

H. S. McCLAIN.

Springfield, Ohio, Dec. 18, 1886.

Newark Machine Co., Columbus, Ohio:

Gentlemen: We have had good luck this season, threshing and moving 18 days 328 bushels, and threshed 34 bushels in 4 hours. The Victor took the lead wherever we went. Respectfully, J. W. SMITH. By J. A. VINCENT, Thresher.

West Mansfield, Ohio, Jan. 29, 1880.

To the Newark Machine Co., Columbus, Ohio:

Gentlemen: The No. 3 new Victor Clover Huller that we bought of your Agents, "Saunders & Allen," of Richwood, Ohio, has given entire satisfaction to us and our customers. It is the easiest and truest running machine we ever used. It takes the seed all out of the straw and the recleaner cleans the seed ready for market. We have hulled over 600 bushels since the first of October. We would not be other machine. SIGLER & CURL.

TESTIMONIALS—Continued.

INDIANA.

Plymouth, Ind., Dec. 18, 1886.

Newark Machine Co., Columbus, Ohio:

Gentlemen: We and our customers are well pleased with the Victor. We have hulled at the rate of one bushel in six minutes without rushing. The Victor is the boss. Yours truly, JOHN MORLOCK, WM. WILBURN.

North Manchester, Ind., Dec. 25 1886.

Newark Machine Co., Columbus, Ohio:

Dear Sirs: I can recommend the Victor Huller to any one needing a good huller. I can hull 100 bushels of good seed in a single day.

Yours truly, JOSEPH GICK.

Silver Lake, Ind., Dec. 24, 1886.

Newark Machine Co., Columbus, Ohio:

Sirs: We hulled in one day 65 bushels in 7 hours and think we can hull 100 bushels in 10 hours. It gives perfect satisfaction to the farmers and we are pleased with it. Yours, HANEY & MILLER.

Ridgeville, Ind., Jan. 28, 1887.

Newark Machine Co., Columbus, Ohio:

Gentlemen: My Victor Huller has proved all that you recommended it to be. I will say that it excels all others I ever saw for damp clover and the fast hulling. I threshed 15 bushels in two hours and clover only made 3 bushels to the acre.

Yours truly, B. F. CREAMER.

Fulton, Ind., Dec. 25, 1886.

Newark Machine Co., Columbus, Ohio:

Gentlemen: I have used a good many different hullers, but the Victor beats them all. I hulled 51 bushels and 50 pounds in 6 hours. Did it easily. They will do what you warrant them to do. Yours, GEO. HIGHT.

Albion, Ind., Dec. 20, 1886.

Newark Machine Co., Columbus, Ohio:

Dear Sirs: As to the Victor Huller I can say that it can't be beat. It is all that is claimed for it. I hulled one bushel in 6 minutes and cleaned it ready for market. I wouldn't give a Victor for any other huller made. Yours, W. J. CLELAND.

Judson, Ind., Dec. 20, 1886.

Newark Machine Co., Columbus, Ohio:

Gentlemen: We can say of your huller that it is the best machine made. We hulled 500 bushels of clover last fall more than any other machine in this section. We can fully recommend the Victor Clover Huller.

Respectfully, PHILLIPS & BURNSIDE.

Warsaw, Ind., Dec. 21, 18 6.

Newark Machine Co., Columbus, Ohio:

Gentlemen: The Victor Huller gives satisfaction to us and our patrons. We find all the hulling we could do at 75 cents, while other hullers hulled for 50 cents. We hulled 40 bushels in 5 hours, out of the field.

Yours truly, FOLK & EVANS.

Peru, Ind., Dec. 18, 1886.

Newark Machine Co., Columbus, Ohio:

Gentlemen: In regard to your huller I would just say that it cannot be beaten for good work and saving of seed. It is all that you claim for it.

Yours, S. R. BENNETT.

Odon, Ind., Dec. 25, 1886.

Newark Machine Co., Columbus, Ohio:

Gentlemen: Your huller gives the best of satisfaction. I hulled 670 bushels of seed in 28 days, hulling 68 bushels some days. I like your machine very well, in fact can find no fault whatever with it. Yours truly, I. C. JERRY.

ILLINOIS.

Keysport, Ill., Dec. 20, 1886.

Newark Machine Co., Columbus, Ohio:

Gentlemen: We are well pleased with our No. 3 Victor Huller and don't think it can be beat. Yours truly, H. B. & M. A. FLOYD.

Hagerstown, Ill., Dec. 25, 1886.

Newark Machine Co., Columbus, Ohio:

Gentlemen: Our No. 3 huller is all you claim for it. We threshed 46 bushels of clean seed fit for any market the first day we started the machine, and would not exchange it for any huller we ever seen. Yours,

WM. H. & W. D. GOLDSBOROUGH.

Fairbury, Ill., Dec., 13, 1886.

Newark Machine Co., Columbus, Ohio:

Gentlemen: The Victor Huller can't be beat. Our biggest day's work this season was 71½ bushels in 8 hours, but a general average was 40 bushels in prairie clover and 50 to 60 bushels in timber clover. Respectfully, LEEDS & BROWN.

Berryville, Ill., Dec. 25, 1886

Newark Machine Co., Columbus, Ohio:

Gentlemen: We can hull 75 bushels per day with the Victor. We hulled 7 bushels in 14 minutes. I like your huller splendid. Yours, A. PEARSON.

Freeport, Ill., Dec. 28, 1886.

Newark Machine Co., Columbus, Ohio:

Gentlemen: I would say for the Victor Huller, I think it is the best huller made. We have run by the side of other machines and it was acknowledged by all that the Victor done the best and cleanest work. We have threshed 295 bushels in 8 hours, and could thresh 75 bushels in a day.

Yours, H. E. LUDLON.

Loogootee, Ill., Jan. 5, 1887.

Newark Machine Co., Columbus, Ohio:

Gentlemen: I like the Victor Huller very well. Clover was very poor in this section this season, and I had but very little to hull on account of the drouth.

Yours truly, W. S. LASH.

Plasa, Ill., Dec. 28, 1886.

Newark Machine Co., Columbus, Ohio:

Gentlemen: Our Victor Huller gives entire satisfaction in every way. It is safe to say that we can hull 60 to 90 bushels per day where the clover is good.

Yours truly, DAVIS & FORWOOD.

TESTIMONIALS—Continued.

Lexa, Ill., Feb. 20, 1886.

Newark Machine Co., Columbus, Ohio:
Gentlemen: Your Victor Huller is all right and does good work. When clover is in good shape I can hull from 40 to 50 bushels per day and do good work and clean the seed ready for market. Yours truly, R. B. LURILLA.

Flat Rock, Ill., March 4, 1889.

Newark Machine Co., Columbus, Ohio:
Gentlemen: I have been running one of your Victor Clover Hullers for 3 years and I think I can recommend it as the best huller in the field. The Victor is good enough for me. Yours, A. R. RICH.

MISSOURI, NEBRASKA AND COLORADO.

Benton, Mo., Aug. 26, 1887.

Newark Machine Co., Columbus, Ohio:
Gentlemen: I had Mr. Reeder do my hulling with his Victor Huller, and it done good work, cleaning the seed fit for market. It is the best clover huller I ever saw run. Yours truly, GEORGE KERNS.

Benton, Mo., August 26, 1887.

Newark Machine Co., Columbus, Ohio:
Gentlemen: We saw the Victor Clover Huller, owned by Mr. Wm. Reeder, hulling for Mr. Geo. Kerns, and it beats anything we ever saw.
W. H. GRIM, Feeder.
Lewis Williams, Jno. C. Gaitz, Dennis Graser, Joseph Hoeller, James B. Allcox.

Benton, Mo., August 26, 1887.

Newark Machine Co., Columbus, Ohio:
Gentlemen: The No. 3 Victor Clover Huller I bought of you has given entire satisfaction. When your Mr. White started the machine for me he threshed 2 bushels in 8½ minutes. Yours truly, W. M. REEDER.

Fulton, Mo., March 27, 1887.

Newark Machine Co., Columbus, Ohio:
Gentlemen: We purchased a No. 4 Victor Clover Huller of you with which we are well pleased. It does as good work as any machine we ever saw, in fact better, for it will thresh as fast, clean as well, and saves seed better than any machine we ever saw work. We can thresh from 8 to 10 bushels in an hour without hurrying, and as high as 12 bushels by hurrying.
Yours truly, CRAIGHEAD & HENDRIX.

Glenese, Neb., Jan. 1, 1887.

Newark Machine Co., Columbus, Ohio:
Gentlemen: The Victor Huller is all right. We can hull and clean ready for market 80 bushels in a day. Can truthfully recommend the Victor to any one wishing to purchase a good huller. Yours truly, HENSEL & FREASE.

Greeley, Colorado, Dec. 4, 1885.

Newark Machine Co., Columbus, Ohio:
Gentlemen: Your Victor Double Hulling Machine is giving perfect satisfaction as a clover and alfalfa huller. As regards quantity and quality of work, it is far superior to any other hulling machine ever in this country. Saves all of the clover and alfalfa, and cleans the seed fit for market. JAMES STORMS.

Greeley, Colorado, Jan. 3, 1886.

Newark Machine Co., Columbus, Ohio:
Gents: I take great pleasure in recommending your Victor Huller to any and all farmers wanting a good job hulling done. My alfalfa and clover seed is cleaned fit for market. CHARLES COLE.

Greeley, Colorado, Dec. 2, 1885.

Newark Machine Co., Columbus, Ohio:
Gents: I can say for the Victor Clover Huller that it is the best machine for alfalfa seed that ever came to this country. It does the best work cleaning as well as separating. I feel it my duty as a farmer to recommend the Victor to both threshermen and farmers. It will hull from 40 to 75 bushels per day and clean it fit for market. M. J. ROYARTY.

IOWA.

Brush Creek, Fayette Co., Iowa, Sept., 1885.

Newark Machine Co., Columbus, Ohio:
Sirs: I own and run one of your Victor Double Hullers, and can down any huller that ever hulled in this country. This is the fourth season my machine run and it will do as good work this year as ever. G. B. BROWNELL.

Bingham, Iowa, Nov. 6, 1886.

Newark Machine Co., Columbus, Ohio:
Gentlemen: Our Victor Huller is doing the best of work and gives good satisfaction.
Yours truly, GEO. W. MARINER.

Wadena, Iowa, Dec. 30, 1886.

Newark Machine Co., Columbus, Ohio:
Gentlemen: We have one of your Victor machines and it gives good satisfaction. I think it will do all that it is recommended to do.
Yours truly, F. GEHRING.

Grant, Iowa, Jan. 1, 1887.

Newark Machine Co., Columbus, Ohio:
Gentlemen: We are satisfied that the Victor Huller will do all that it is recommended to do. Clover does not make a very big crop this year.
Yours, PENFIELD & WELCH.

TESTIMONIALS—Continued.

MICHIGAN, WISCONSIN AND MINNESOTA.

Caro, Mich., Dec. 22, 1886.

Newark Machine Co., Columbus, Ohio:
Gentlemen: Our Victor machine bought of Moreland Bros. is perfectly satisfactory. We can beat any huller that ever came into this country.
Yours truly,
GOSGROVE BROS.

Cass City, Mich., Dec. 27, 1886.

Newark Machine Co., Columbus, Ohio:
Gentlemen: Your Victor Huller is all that can be required. It can get more seed out of wet or dry straw and clean it better than any machine we ever saw. Have set twice, moved three times in a day and hulled 45 bushels of seed. Have hulled 8 bushels in one hour.
Yours, etc.,
PARKER BROS.

Elmer, Mich., December 27, 1886.

Newark Machine Co., Columbus, Ohio:
Gentlemen: The Victor gives good satisfaction to every one concerned. We have hulled 17 bushels in 3 hours, 12 bushels in 65 minutes. The seed is very poor in our locality this season.
Yours, etc.,
WM. E. ARNOLD.

Holly, Mich., Nov. 1, 1886.

Newark Machine Co., Columbus, Ohio:
Gentlemen: The Victor Huller I bought of you last fall is a good one. I have hulled 8 bushels an hour with ease. I have the drop on the boys here.
Yours truly,
LEMAN CAMPBELL.

Amherst Junction, Wisconsin, May 2, 1882.

Newark Machine Co., Columbus, Ohio:
Gents: On the 26th of April I threshed in 7 hours 29 bushels of Mammoth Clover seed out of stacks which was out of doors.
E. D. TOBIE, HUGH EVANS.

River Falls, Wisconsin, Feb. 7, 1887.

Newark Machine Co., Columbus, Ohio:
Gentlemen: We bought a No. 4 Victor Huller of your agents, Carroll Bros., at River Falls, and it give us perfect satisfaction. We threshed a wagon box of straw after an attachment had threshed it and got forty pounds of seed. Your huller is all that you claim for it. Yours truly. J. H. MEACHAM. W. S. MEACHAM.

Clinton Junction, Wisconsin, Feb. 25, 1882.

Newark Machine Co., Columbus, Ohio:
Gentlemen: I will say that the Victor Clover Hullers beat any hullers I have ever seen. It hulled for me in the fall of 1880, and I was so well pleased that I waited four months in the fall of 1881 for it to do my work. P. G. PETERSON.

La Grange, Wisconsin, March 28, 1882.

Newark Machine Co., Columbus, Ohio:
Gents: The Victor Huller that I bought of you is a complete success. The jobs have been small and the seed poor. I can get all I can thresh, and waste no seed. I find it superior to any machine I have ever used for threshing and cleaning clover seed.
THOS. E. LEAN.

Pilot Mound, Minn., Dec. 27th, 1886.

Newark Machine Co., Columbus, Ohio:
Gentlemen: The Victor Huller we purchased from you last fall worked splendid. We hulled as much as 190 bushels of seed in one day, and cleaned it ready for market. The Victor will do better, faster and cleaner work than any other we ever saw.
Yours,
E. & O. A. NESS.

Castle Rock, Minn., Dec. 4, 1886.

Newark Machine Co., Columbus, Ohio:
Gentlemen: We hulled 87 bushels of clover seed with the Victor No. 4 Huller in 9 hours. It is considered the best huller made for clean and fast work.
Yours truly,
PENNINGTON BROS.

Rushford, Minn., Feb. 1, 1887.

Newark Machine Co., Columbus, Ohio:
Gentlemen: All the Victor Hullers that I have sold have given the best of satisfaction. I think the best recommendation of the Victor is this machine is that I have sent you the cash for the five Victor Hullers which I sold here last fall.
Yours truly,
M. J. DESMOND.

Albert Lea, Minn., Feb. 9, 1887.

Newark Machine Co., Columbus, Ohio:
Gentlemen: Last fall I bought one of your Victor Clover Hullers No. 3. I only ran nine days with it and cleared $412. I can prove that I made $69 in one day. I run it with a twelve horse power. The huller needs no praise, but will praise itself.
Yours truly,
J. H. BARLOW.

KENTUCKY AND TENNESSEE.

Hickman, Fulton Co., Ky., Dec. 23, 1886.

Newark Machine Co., Columbus, Ohio:
Gentlemen: We have hulled 625 bushels of seed with our Victor Huller this season, and 95½ bushels was the most that we hulled in one hour. Your machine will do all you claim for it if not more.
Your truly,
M. TULL & R. W. TULL, Jr.
Fulton, Ky., Dec. 29, 1886.

Newark Machine Co., Columbus, Ohio:
Gentlemen: The Victor Clover Huller which I bought of you has fully come up to the warranty. It has both hulled and cleaned seed satisfactorily and I unhesitatingly recommend it to all farmers as the best clover huller in the market.
Yours truly,
W. H. WINSETT.

Gilbert's Creek, Ky., Dec. 29, 1886.

Newark Machine Co., Columbus, Ohio:
Gentlemen: We are more than pleased with our victor Huller. We could very easy hull 75 bushels a day, as we hulled 50 bushels without any trouble the first day's run. We will be able to pay for the machine and all expenses out of this year's work.
Yours truly,
JOHN TAYLOR.

College Grove, Tenn., Jan. 10, 1886.

Newark Machine Co., Columbus, Ohio:
Gentlemen: I must say the Victor Huller I bought of your agent, J. R. Gilbert, of Henry, Tenn., is a daisy. She does her work fine, and cleans seed ready for market. I have hulled two bushels in nine minutes, and if I had a full day's hulling in good clover I believe I could hull 100 bushels in a day.
E. H. TODD.

TESTIMONIALS—Continued.

Cayce, Fulton Co., Ky., Jan. 16, 1887.

Newark Machine Co., Columbus, Ohio:

Gentlemen: The Victor Huller I bought of you last season is all that I could wish or ask. I hulled over 500 bushels of seed the past season, giving perfect satisfaction. There are several other Victors in this vicinity, all of which did a satisfactory business. Yours truly, M. D. JOHNSON.

Henry, Tenn., Dec. 11, 1886.

Newark Machine Co., Columbus, Ohio:

Gentlemen: The Victor Huller we bought of J. R. Gilbert was run through the past season to our entire satisfaction. It is simple and easy to operate, works splendidly, takes the seed well from the straw and cleans it thoroughly. We do not think any machine made can equal it in quantity and quality of work.
Yours, DILDAHUNT BROS. & GREER.

Henderson's Cross Roads, Wilson Co., Tenn., Aug. 15, 1885.

Newark Machine Co., Columbus, Ohio:

Gentlemen: Your famous Victor Double Clover Huller purchased of you came duly to hand, and permit me to say it did excellent work, threshing and cleaning to our entire satisfaction, and we cheerfully recommend it to be the best on the market. PATTON & WITHERSPOON.

Union City, Tenn., Dec. 21, 1886.

Newark Machine Co., Columbus, Ohio:

Gentlemen: I can hull with the Victor as much clover as any other machine, separate and clean better than any I have ever seen, and farmers are all highly pleased. Can't be beat. Yours, C. H. LAMBERT.

Nashville, Tenn., Aug. 24, 1885.

Newark Machine Co., Columbus, Ohio:

Gentlemen: I bought from your agents one of your Victor Clover Hullers, and I am highly pleased with my machine, and regard it a first class huller.
JAMES N. ALLIMIS.

Mount's Cross Roads, Tenn., Dec. 27, 1886.

Newark Machine Co., Columbus, Ohio:

Gentlemen: I recommend the Victor as the best huller in Jefferson county. I have hulled on it at the rate of 8 bushels in an hour.
Yours truly, JAMES FRENCH.

McMinnville, Tenn., Aug. 28, 1885.

Newark Machine Co., Columbus, Ohio:

Gentlemen: The Victor Huller bought of you is a perfect success, and we are all well pleased, and can recommend it to any one wishing to buy a clover machine.
SULLIVAN BROS.

NEW YORK, PENNSYLVANIA AND MARYLAND.

Clifton Springs, New York, Dec. 20, 1886.

Newark Machine Co., Columbus, Ohio:

Gentlemen: Your Victor Huller has worked to perfection. It will hull 50 bushels per day in good seed. We have used several kinds of hullers but consider yours the best. Yours truly, THOMAS KELLEY.

New York, Dec. 1, 1881.

Newark Machine Co., Columbus, Ohio:

Gentlemen: The undersigned farmers, having had the Victor Double Huller work for them, take pleasure in recommending it to be the best machine for getting out clover seed to use.
LEVI BARROWS, SETH JONES, Kendall, N. Y.; WM. HOLMES, Elba, N. Y.

North Huron, N. Y., Dec. 22, 1886.

Newark Machine Co., Columbus, Ohio:

Gentlemen: I deem it a pleasure to say I am well pleased with your No. 4 Victor Huller. Its thorough and speedy work in damp and dry clover makes the farmer laugh with joy. In one hour we hulled 9½ bushels of clean seed.
Yours truly, I. W. SEETER.

Wolcottsville, Niagara Co., N. Y., Dec. 14, 1886.

Newark Machine Co., Columbus, Ohio:

Gents: The Victor Machine we purchased has given the best of satisfaction. We have threshed right along, when other machines had to lay up on account of snow drifts. J. C. & J. B. SCHAD.

Clark, Pa., Dec. 27, 1886.

Newark Machine Co., Columbus, Ohio:

Gentlemen: I like your Victor Huller and think it can't be beaten by any other machine. I could thresh 100 bushels of seed per day if I could get the straw to the machine fast enough. I would advise all that want a huller to buy the Victor.
Yours, GEO. M. MACKS.

Heidlersburg, Pa., Dec. 29, 1886.

Newark Machine Co., Columbus, Ohio:

Gentlemen: The No. 4 Victor Huller bought of you is all that we can ask of it. It cleans the seed about perfect and does the work fast.
Yours truly, A. L. HOFFMAN.

Middle Springs, Pa., Dec. 24, 1886.

Newark Machine Co., Columbus, Ohio:

Gentlemen: I have used your huller and like it very much. We hulled 50 bushels in one day and done good work. I would not have any other machine.
Yours, W. A. MCNEAL.

Chestnut Hill, Md., Dec. 29, 1886.

Newark Machine Co., Columbus, Ohio:

Gentlemen: Every one is pleased with the work of my Victor Huller and I believe in good clover I could hull 50 or 60 bushels a day.
Yours truly, JOHN C. ROBINSON.

TESTIMONIALS—Continued.

Roe, Queen Ann's Co., Md., Dec. 20, 1886.

Newark Machine Co., Columbus, Ohio:

Gentlemen: The Victor Huller has given good satisfaction, and I think that it is the best huller that is out, and I would buy no other make, and I advise all buyers to take the Victor. Yours, JOEL CLARK.

Bloomfield, Pa., Jan. 3, 1881.

Newark Machine Co., Columbus, Ohio:

Dear Sirs: I hulled with one of your Victor Hullers at my barn, of clean seed, 30 bushels in two hours and stopped three times to put the belt on on account of rain. It is the most perfect machine I ever saw. I have had no breakage, and don't believe it ever will break with fair usage.

ALBERT RHAFFER, HARRY LENIG.

Hydes, Md., Dec. 20, 1886.

Newark Machine Co., Columbus, Ohio:

Gentlemen: I sold for you this fall two Victor Hullers and both have given entire satisfaction. Yours truly, ROBERT DILWORTH.

Mattawana, Pa., Dec. 18, 1886.

Newark Machine Co., Columbus, Ohio:

Gentlemen: My patrons call the Victor the I. X. L. Huller. I like the machine in every respect. The improvements are grand. I hulled seed off of wet and frozen stacks without any difficulty. Yours truly, J. W. BRINDEL.

New Enterprise, Pa., Dec. 20, 1886.

Newark Machine Co., Columbus, Ohio:

Gentlemen: The No. 2 Victor Huller has done exceedingly good work. The farmers are much pleased with the work. Yours respectfully,

BRUMBAUGH & MOCK.

Ligonier, Pa., Dec. 17, 1886.

Newark Machine Co., Columbus, Ohio:

Gentlemen: I hulled as high as 10 bushels in two hours on the No. 2 Victor and cleaned it perfect, ready for market. Yours truly, THEO. REIPLE.

VIRGINIA.

Dry Depot, Va., Dec. 21, 1886.

Newark Machine Co., Columbus, Ohio:

Gentlemen: The No. 2 Huller bought of you gives satisfaction to all. Does nicer and cleaner work than any machine ever used in this section.

Respectfully, etc., RODES BROS. & CO.

Warsaw, Va., Dec. 25, 1886.

Newark Machine Co., Columbus, Ohio:

Gentlemen: The No. 2 Victor Huller I bought of you does all it was represented to do and more besides. You only claim that your No. 2 Huller will hull 20 to 30 bushels per day, but I have hulled 42½ bushels in 7 hours. I hulled for C. H. Constable, near Warsaw, 98 bushels in two days and moved the machine four times after setting it. Who can beat this with a No. 2 Huller?

Yours truly, R. R. HAYNES.

Montrass, Westmoreland Co., Va., Dec. 21, 1886.

Newark Machine Co., Columbus, Ohio:

Gentlemen: I am pleased with the Victor Huller. I don't think any better machine than it is can be made, and I regard it as a perfect machine for hulling clover. Yours truly, JAS. P. JENKINS.

THE IMPERIAL STRAW STACKER.

THE MOST RELIABLE, MOST ECONOMICAL, MOST EASILY OPERATED, MOST DURABLE, MOST EFFECTIVE AND MOST SATISFACTORY STRAW STACKER BUILT.

THE IMPERIAL STRAW STACKER,
In Position Ready for Use.

DESCRIPTION OF THE IMPERIAL.—The main frame of the Imperial is made of 2½ x 6 white oak. The patent truss, which supports the standards of bolster and turn-table, is strong enough to support *three tons*, as are also the steel-wire ropes. In the construction of a straw stacker, the principal element to be considered is SAFETY. Accidents usually occur by the slipping of the ratchet, or the breaking of a rope or chain. The worm gear used in hoisting the Imperial Stacker is ABSOLUTELY SAFE. A child may wind it up, as the crank will never fly around and strike anyone, or let the carrier fall. So easy is it raised that, with one finger on the crank, the operator can easily lift a man weighing two hundred pounds on the outer end of the first section of the carrier. The wire ropes (each six feet long) passing under the lifting wheels at each side of the carrier, will sustain a weight of three tons, which is several times greater than the weight necessarily placed upon them. The truss rods, running from near the top of each standard to the front extension of the bolster, thence to a point directly under the pivotal point of the turn-table, and thence diverging and running to both sides of the main frame, constitute without a doubt a point of greater strength than can be shown in any other Stacker.

One of the greatest difficulties to overcome in the lateral moving stacker, is to prevent the slatted carrier belt of the separator from carrying back straw and chaff, but this has been most effectually accomplished in the Imperial.

Our experience demonstrates to us that the proper height for a mounted stacker is about eight feet, to properly receive and carry off straw. This being the case, it is folly to encumber the stacker with a lot of useless machinery with which to raise and lower the hopper turn-table; for, the carrier being light, there is not the slightest danger of upsetting. In our stacker there are—

No ratchet wheels to slip and let the stacker fall, or kill anyone with the crank. No sheave pulleys. No ordinary rope. No common chains. No bolts or nuts to remove or put on when elevating the carrier. No stakes to drive. No ropes to tie or to wear out and endanger life. No chains to break at the weakest link. No bolster or turn-table to raise. No short belts to slip and cause loss of time. No derricks to raise.

The shafts or gearing can not cut or cramp, because of universal joint in vertical shafting. The stacker can not slip and fall, because, with worm gear for hoisting, it is absolutely impossible; and it is a self-evident fact to every observer that the Imperial is the simplest of all stackers. The carrier of the Imperial can turn to a right angle, on either side, whether raised or lowered. The sprocket wheels, at top and bottom of standard, are interchangeable and of different sizes, so that the speed may be changed at will; this is often desirable in very heavy or very light straw.

The Imperial Stacker is four feet wide inside and twenty-three feet long; weighs about fifteen hundred pounds; can be hauled without an extra team behind the separator or water tank. The front wheels will turn short under the main frame. It can be attached to any separator, old or new, by simply bolting a wooden pulley on the outside of some convenient pulley on the separator, and from this wooden pulley running a two and one-half inch belt back to the stacker. The amount of power required to run it is so small as not to be of any consideration. Many who have used them state they can not discern the difference in power required to run it, or to run without it It will carry straw into a semi-circle about fifty-five feet across and twenty-three feet high; carries the chaff to center of stack.

THE IMPERIAL STACKER FOLDED.

It saves from five to seven men's labor every hour it runs. One man can set it up and have it ready to run in about two minutes, when it is once adjusted to the machine and has been run squarely behind it. It saves hunting up from five to seven extra hands. It saves their pay. It saves board. It saves paying them in kind, when one would rather pay in money than in labor. It saves doctor bills by enabling men to keep out of the dust. It saves the chaff, which is carried to the center of the stack, instead of falling to one side and rotting. It saves the straw, which is so placed that there are no depressions in which the water settles; and being semi-circular the stack can-not fall. It saves live stock by affording a protection for them in the hollow center of the stack. It saves water, and water is expensive when twenty-odd hands stop to give one man time to drink.

We have but two cog gears in the whole stacker, except the automatic attachment, and these are so attached to the center casting and coupled to the shafts by universal joints, that they are independent of all shrinkage or warping of the timber, and they can never cramp or get to cutting. We use sprocket chain instead of short belts. We are the only manufacturers using worm gear, and it is the only one which is perfectly safe to wind up.

EASE OF ADJUSTMENT.—As we do not raise or lower our turn-table we get rid of a lot of useless machinery commonly used for that purpose, and at each setting we simply have to unfold the straw carrier and give a few turns of the worm-gear and we are ready to carry off straw. ☞ Ordinarily no extra team is required to move it. It stands almost as still as a gate-post while in operation.

AUTOMATIC DEVICE.—The automatic device for swinging the carrier around over the stack, greatly excels any heretofore used. The gearing in it are all square gears, which everyone knows are better than any other kind of gearing, and, although it may at

will be made to operate over any given portion of the stack without making its full circuit, there is no trigger work to get out of order.

Its motion may be stopped or started by the men or on the ground, and the carrier moves so slowly that it will just make a good layer of straw all over the stack in half a revolution. This device helps greatly to make stacks impervious to rain, for, with the carrier continually moving, an even distribution of the straw is made over the stack.

AS TO REACHING OVER THE CENTER OF THE STACK.—Our carrier being pivoted directly at its receiving end, it does not recede as a stacker which is pivoted at a point below and backward of the receiving end. By actual measurement the outer end of our carrier is still exactly over the point at which it began to deliver straw; when it has reached an elevation of 16 feet, and when elevated 20 feet, it has receded but two feet. We, therefore, consider that there is not enough difference to justify using a number of loose joints and taking a man's time to manipulate the carrier. Besides it is evident that if a stacker is drawn back when commencing a stack, it will fail by just that much to make as large a stack as one which is not so drawn back.

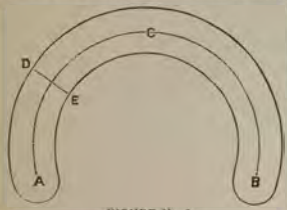


FIGURE No. 1.

The reasons for this are as follows: At the beginning of the stack we commence the stack 46 feet from one center to the other. (See diagram, Fig. 1). From A to B is 46 feet; while in the stacks made by stackers that recede (or which claim to always keep over the center of the stack,) the distance from A to B is about 36 feet. The line A B C in our stack is about 72 feet whereas the same line in stacks made by the receding stackers is about 57 feet.

If our stacks are 20 feet through from "D" to "E" the first foot in depth will contain 1440 cubic feet, and if 20 feet high the stack will contain 28,800 cubic feet. Stacks made by the receding style of stackers will average about 1140 feet of straw in the first foot of depth, and about 22,800 cubic feet of straw when they are 20 feet high. It will thus be seen that the Imperial Stacker will put about one-fourth more straw in the stack, because it commences on A LARGER BASE than other stackers.

It should be remembered that at 16 feet high the outer end of the Imperial Stacker is directly over the point at which it commenced to carry straw and at 18 feet high it has receded but one foot from the point. As it takes about 22 loose joints to accomplish the receding of a stacker it will be seen that the receding principle is a positive disadvantage to any stacker.

PATENT ADJUSTABLE HOOD.

Our patent *Adjustable Hood* for on the threshing machine stacker is the simplest of all adjustable hoods, having no pulleys about it, and being placed in the carrier of the separator without the necessity of putting on any bolts or nuts.


KIND OF STACK MADE BY THE IMPERIAL.

PATENT ADJUSTABLE HOOD.

WE have also on our Imperial Stacker a canvass Hood and Hopper which is adjustable and can be raised and lowered to suit the pitch of the stacker. This is a very important improvement as it prevents the chaff and short straw from blowing out over the sides of the Stacker in windy weather which would be the case without this Hopper. We have vibrating side boards on the Imperial Stacker which prevents the straw from lodging on the sides and choking up, which is the case with Stackers with stationary side boards, and the Stacker can be used to any width of Separator without making the bottom any wider. All of the light castings on our Imperial for 1889 will be made of malleable iron instead of ordinary cast iron, thus making the machine lighter and stronger.

TESTIMONIALS

Bloomington, Ills., November 16, 1888.

Geo. W. Rouse & Son, Peoria, Ills.:

Gentlemen: The Imperial Stacker purchased of your agents, Harden, Wagner & Co., has given me perfect satisfaction. It is easily handled, light draft, and done the work well. I run it with horse power and find the addition to the draft very little.

Very truly, JESSE STUBBLEFIELD.

Hilton, Ills., October 8, 1888.

Geo. W. Rouse & Son, Peoria, Ills.:

Gentlemen: The two Imperial Stackers we bought of you this summer have given us good service and we are well pleased with same. They are simple and durable and require very little power to run, and there can be no question of their now being a necessity to every thresherman. Yours truly,

C. B. REDIGER.

McLean, Ills., November 14, 1888.

To all Whom it May Concern: I have been using the Imperial Stacker one season. I like it splendid, easy to operate in every particular. It is far ahead of others I have seen used. The farmers think it a daisy.

Very truly, M. C. JAMES.

Holder, Ills., November 12, 1888.

Geo. W. Rouse & Son, Peoria, Ills.:

Gentlemen: We would say a few words in regard to the Imperial Stacker we bought of your agents, Holder, Milner & Co. We like it very much; it is easy to operate, simple, durable, and the most handsome Stacker we have seen. A boy can operate it as easily as a man can. We should say to everybody going to buy the best Stacker in the market, buy the Imperial. Yours truly,

SHIELDS BROS.

Geo. W. Rouse & Son, Peoria, Ills.:

Gentlemen: We have used other Stackers and seen several running, and say there is none equal to the Imperial as the draft is much lighter and so simply constructed, and requires no attention to run it. We run 50 acres of heavy wheat straw over it in one day and could have carried all the chaff from around the Stacker in my arms. Yours truly, SPILLAIRS & BENNETT.

Loraine, Ills., December 17, 1888.

Geo. W. Rouse & Son, Peoria, Ills.:

Gentlemen: The Imperial Stacker I bought of you last June gave the best of satisfaction to myself and farmers. It is so simple and easily handled that any person could not help liking it. Yours truly, DAVID CARR.

H. W. Strickler, B. B. Strickler, M. Curless, Orv. Wade, W. M. Wade, Addison Curless, C. A. Yenter, M. F. Baker, G. W. A. Yenter, Henry Thilten, C. B. Wilson, L. Pittman, C. A. Strickler, Louis Ruffcorn, H. C. Jenkins.

Minonk, Ills., November 15, 1888.

Geo. W. Rouse & Son, Peoria, Ills.:

Gentlemen: In running a steam thresher ourselves we found we had to get a patent Straw Stacker, as the best jobs we got this season we could not get until we got one. The Imperial of ours, and those we have sold, give good satisfaction and every one seems well pleased with it. It runs easy and is easy to handle. No thresherman can afford to be without one. Yours truly,

PICKARD BROS.

Geo. W. Rouse & Son, Peoria, Ills.:

Gentlemen: We purchased an Improved Imperial Stacker this year (1888) from H. E. & S. Selby of Golden, Ills. It is very easily handled and gave good satisfaction with our customers. We would not change it for any other.

Yours truly, B. N. GALLOWAY & ALLEN.

St. Peters, Minn., January 21, 1887.

Newark Machine Co., Columbus, Ohio:

Gentlemen: Having used one of your Imperial Straw Stackers I can conscientiously state that I believe it will that is claimed for it, and that this Stacker must come into general use wherever people desire to stack their straw. I intend to purchase two more for the reason that the community in which three of my machines are used demand these Stackers. Yours truly, W. H. ROUNSEVILLE.

Cleveland Tud., January 1, 1887.

Newark Machine Co., Columbus, Ohio:

Gentlemen: The Imperial Straw Stacker that I bought of you proves to be a success in every respect. It takes the lead in this country for being the most easy machine to set and put to work. I would recommend all in need of a Stacker to buy an Imperial and get the worth of your money. Yours truly,
JOHN T. BARRETT.

Lily Chapel, Ohio, July 20, 1886.

Newark Machine Co.:

The Imperial Self Oscillating Straw Stacker I bought of you is doing more than I thought it could do. Everybody speaks well of it. I cannot see that it makes any difference in the power that it takes to run it. Can't do without it.
THOMAS HORN.

I had Mr. Horn do my threshing using one of your Stackers. It did as work perfectly and I was well pleased.
S. SIDNER.

Portland Mills, Indiana, June 8, 1886.

Newark Machine Co.:

Having used the Imperial Straw Stacker the past two seasons I take great pleasure in recommending it. For solidity, beauty of finish, lightness, durability, ease of adjustment and rapidity of stacking, it far excells all. The raising and lowering feature makes it worth $ 0 more than any other make. I believe it to be the only safe Stacker manufactured. It is not a dead fall as many others are.
A. J. FARROW.

Tipton, Indiana, January 18, 1886.

Newark Machine Co.:

I have used your patent automatic Straw Stacker this season and I can say without fabrication that yours is the best and most perfect Straw Stacker I ever handled. It is no trouble to set. Can set it in five minutes and there is no wear out to it. I can, if necessary, get the recommendations of every farmer I threshed for.
Respectfully yours,
MORGAN WRIGHT.

Osta, Ohio, August 14, 1886.

Newark Machine Co.:

The Imperial Straw Stacker I bought this season has given me entire satisfaction. I can build a stack 120 feet long and 25 feet high with it and two men can stack all the straw the machine can thresh. It is so light draft that I cannot tell any difference in the power with or without it. In fact it is the most perfect Stacker that I ever saw, and if I needed another I would buy the Imperial first, last and all the time. Respectfully, I. C. PENDAGRASS.

Warrensburg, Mo., December 20, 1885.

Newark Machine Co.:

In regard to the Imperial Straw Stacker too much cannot be said in its favor.
C. J. RUCKER.

Lansing, Mich., December 19, 1885.

Newark Machine Co.:

Your Straw Stacker has now been in use three years and has proved a great success. It is very popular with the farmers and when once a farmer has his straw stacked with this machine he will wait a long time for it as farmers always say the straw is better on account of this Stacker. We have had more to do each year. We ran four weeks longer this year than any other threshers, and we have done more than enough work in two years, after all others had quit, to pay for the Stacker. It is only a question of time when all will be compelled to get the Imperial.
WM. S. ELLIOTT. T. WILKERSON.

Morrisville, Ohio, August 20, 1886.

Newark Machine Co.:

I have been running one of your Imperial Straw Stackers this season which has given entire satisfaction. My customers are also well pleased with it. It is without doubt the most perfect working Stacker in use and I would not exchange it for any other I have seen.
Respectfully, J. W. B. CROUSE.

Russellville, Indiana, December 19, 1885.

Newark Machine Co.:

I have used two of the Imperial Straw Stackers and all gave perfect satisfaction. I have not been to any expense at all on them. They have no equal now in the market.
C. W. CURRY.

Philadelphia, Indiana, December 15, 1885.

Newark Machine Co.:

After examining all the different Stackers, I bought an Imperial Straw Stacker and am satisfied they are the best Stacker in use. I have threshed one thousand bushels in one day with three hands on stack.
JOHN M. HALL.

Eldorado, Indiana, December 29, 1885.

Newark Machine Co.

The Imperial Straw Stacker works like a charm—runs light, is quickly set and is the boss. I would not do without it. It only requires two hands to run it, and will make a better stack than six or seven hands can the old way.
JOHN R. WEAVER.

White's Store, Mo., January 21, 1886.

Newark Machine Co.:

The Imperial Stacker we bought of you has given perfect satisfaction.
MAXWELL & McBEE.

Plymouth, Indiana, December 16, 1885.

Newark Machine Co.:

The Imperial Straw Stacker is a perfect success, and has never given me a minute's trouble, and has rendered perfect satisfaction. ROBERT J. LIGGETT.

Lockville, Ohio, July 17, 1886.

Newark Machine Co.:

Mr. Bert White, of your firm, started one of your Self-Oscillating Imperial Straw Stackers and I will say it is a grand success. I would have no other. It does its work much better than any I have ever seen. Yours truly, G. L. ROYER.

Denver, Colorado, December 18, 1885.

Newark Machine Co.:

The party to whom we sold the Stacker has told us that it worked very satisfactory. Yours respectfully, THE W. J. KINSEY IMPLEMENT CO.