

CATALOGUE AND PRICE LIST

OF

NEEDHAM & MARTIN,

DEALERS IN

FARM MACHINERY,

AND

GENERAL COMMISSION MERCHANTS.

GENERAL AGENTS FOR THE

ACME REAPER AND MOWER,

No. 16 South Main Street,

ST. LOUIS, MO.

CONSIGNMENTS OF GRAIN AND PRODUCE SOLICITED.

AGENTS AT

HACKSTAFF BROS., PRINTERS, DISPATCH OFFICE, ST. LOUIS.



STUMP PULLER.

St. Louis, Mo., *May 1st, 1873.*

By carefully studying the wants of the Agricultural Community we have observed a growing desire on the part of most Agricultural dealers in the country, and farmers generally, to concentrate their business, and to keep their account with as few merchants as possible, thus facilitating exchange and securing a more speedy return for products sold, as well as the timely and safe delivery of machinery, and other articles purchased for their use. That we may the more completely and satisfactorily serve their interest, we have combined the selling of Agricultural Implements with the purchasing of farm products, and would hereby authorize any of our customers who may have grain to sell, to ship the same to us and draw for their money with Bill of Lading. Consignments of grain and produce are respectfully solicited, and we pledge ourselves to secure for our customers quick sales, the highest market quotations, and prompt returns of proceeds.

Very respectfully,

NEEDHAM & MARTIN.

OFFICE OF
NEEDHAM & MARTIN,
16 SOUTH MAIN STREET,
ST. LOUIS, MO.,
1873.

In the publication of this pamphlet we wish to correct the false impression conveyed by our competitors that "the Climax Mower and Reaper is dead." The Climax is not "dead." After a brief repose she has awakened into a new life, with renewed strength, and her superior advantages are reiterated by the honest yeomanry throughout this great agricultural country. After plodding her way up the steep hill of fame, and reaching a higher degree of perfection than was ever attained by any of her scores of predecessors, "the Climax" stands pre-eminently the monarch of the field wherever introduced!

Owing to the rapidly increasing demand for Climax Mowers and Reapers, and the limited capacity for building machines at the parent works at Corry, Pa., the inventor Mr. G. W. N. Yost very wisely negotiated with other good parties at Stubenville and Ravenna, O., Wheeling, Va., Syracuse, N. Y., and Rockford Ill., for the manufacture of his *improved machine* which he has been pleased to call the ACME.

Before arrangements were perfected for the manufacture of the ACME outside of Corry, Pa., the machine was known as the "Improved Climax," but to avoid a confliction of ideas, its name was changed to one more appropriate, while to its parent the Climax is left all the honors she so justly deserves.

GENERAL CONSTRUCTION
OF THE
ACME MOWER.

A Changeable Speed Gearing.

By a combination of mechanical principles the gearing of the Acme performs the work of two complete set of gearings, as used in other machines. It is so arranged that, by shifting a lever to the left, a rapid motion is given to the knife, which enables it to cut through the most difficult places without choking, and by reversing the lever the slow motion which will do good work in ordinary grass or grain, and save one-third of the wear on the machine, as well as draft on the team.

The farmer will readily appreciate the advantage of having two speeds in one machine, as reaping does not require so fast a motion as mowing, neither does it require the same speed for all kinds of grass. By the use of this changeable speed the farmer can use either the fast or slow motion, and change from one to the other while the machine is cutting.

The Gearing is enclosed in a neat Iron Case, the cog-wheels occupying the smallest possible space, are thus protected from water or dampness, preventing rust, and excluding dirt, grass, or anything that would clog or injure the gearing of the machine.

The Acme is made entirely of Iron and Steel, except the journal bearings and the tongue.

The Journal Bearings, are so constructed that when worn they may be rebabited by any common farmer without hauling the machine to a machine shop for repair.

The Main Shaft, is cold rolled iron, finely polished, and extends from one of the traveling wheels to the other.

The Traveling Wheels are 35 Inches in Diameter, and are made in a neat and substantial manner.

The Main Frame, is completely balanced between the traveling wheels, so that

There is neither Side Draft nor Weight on Horses' Necks, as may be proved by working the machine without a neck yoke. By the use of

An Improved Lifting Arrangement, there is no more weight on the horses' necks when the finger bar is lifted clear off the round or folded, than when in actual operation.

The Facility of Management in the Acme cannot be excelled. The lifting lever is convenient to the right hand of the operator, and without leaving his seat he *regulates the height of cut*, raises the outer end of the cutter-bar five feet from the ground, the inner end fifteen inches, or both ends simultaneously, and as the knife works in any position, he can pass over or around obstruction without stopping the team or motion of the knife. The knife works on an angle below the level of the wheels as well as upon level ground.

In turning Corners there is no necessity for backing, as the machine turns readily either way, without stopping the team or losing motion of the knife.

The Guards are Malleable Iron, faced with Steel, and ground to a shear-cutting edge, which secures a perfect shearing action when the knife is in motion.

The Knife-Bar is made on Scientific Principles. Long experience has shown that iron, subjected to constant jarring or vibratory motion, loses its fibrous character and becomes brittle, or like cast iron. This indisputable fact induces our manufacturers to use *very soft, tenacious iron*; and the wonderful strength and durability of the Acme knife has demonstrated the wisdom of their choice.

The Safety of the Acme in Transportation leads all competition, as the enclosed gearing secures the driver from injury by the cogs, the reins from being entangled and cut off; and if by accident he should possibly be thrown from his seat, he will fall behind the cutter-bar, which is conveniently folded across the pole in a perfectly safe position, allowing the machine to pass through narrow gates or alleys, and on account of the enclosed gearing.

It will pass over Plowed Ground, astride a row of corn or potatoes, or along dusty or muddy roads, without incurring a loss of time in cleaning dirt or mud from the gearing.

A Spring-Steel Floating-Bar or Frame, to which the cutter-bar is attached, gives great flexibility to the movements of the machine, and prompt adjustment to the surface irregularities of the ground; and with

A Cold Rolled Cutter-Bar on this *Spring-Steel Frame*, sudden contact with obstructions is avoided, rendering it scarcely possible to break even a guard.

The Seat-Springs are oil-tempered, long and flexible, making riding a matter of pleasure, and, as the seat is in the rear of the finger bar, the driver is not in danger of being thrown in front of the knife in case of accident.

The Swather or Track Cleaner is made of one piece of annealed iron, so shaped that it forms a double tracker, and by bending it, more or less, it will clear as wide or narrow a track as desired, and *never clogs in tangled clover*.

The Whiffletrees are Stayed, by a casting on the pole, dispensing with long stay chains, and rendering it impossible for the team to be injured by the finger bar.

DESCRIPTION

OF THE

“Acme” as a Reaper.

After experimenting with Self-Rakes, Hand-Rakes, Binders, and various other reaping attachments, we have as yet found that

The **Seiberling Dropper** is the most perfect, giving uniform satisfaction. To speak of the merits of this Dropper, or attempt to set forth its claims upon the farmers of the country, seems to be superfluous. The fact that nearly every reaper establishment of any note has been compelled to endorse and use it, is sufficient evidence of its advantages. That there are more Droppers sold yearly than any and all other Reapers, needs no comment—the fact speaks for itself.

Determined to excel in furnishing a Reaper in every way adapted to the wants of an intelligent community, our manufacturers have secured the right to use this Dropper, and have taken great pains in adjusting it to the Acme Mower, which, on account of its changeable speed, encased gearing, hinged cutter-bar, facilities for cutting high or low, without stopping, is better adapted to working with this dropper than any other machine on which it has ever been operated.

To Change the Acme Reaper to a Mower requires less than five minutes labor for one man.

The Acme, with Dropper, will cut 20 inches for tall grain, or only two inches high for short or tangled grain; and the height of both ends of the cutter-bar is changed simultaneously, with great ease, by a single lever, while the machine is in motion; thus

In Cutting Lodged or Tangled Grain, the operator is enabled to let the cutter-bar down for lodged spots, and when through, to raise again both ends of the bar to any desired height without stopping the team. At will, the Acme has a *quick speed* or a *slow speed*, a high cut and a low cut, and can be operated by a boy.

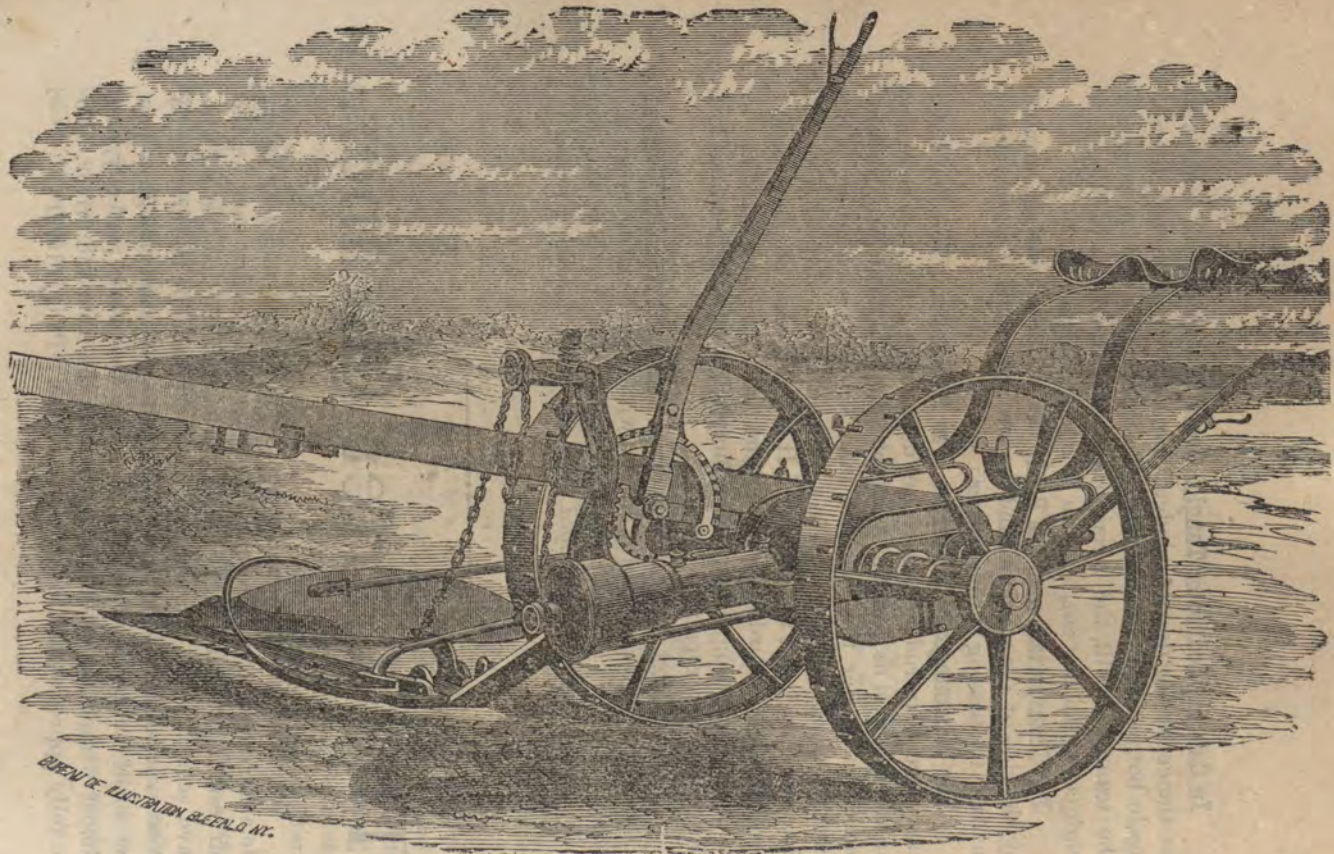
For Transportation on the Road, the cutter-bar swings around by the side of the machine, and the dropper folds in a convenient manner for passing through gates.

The Advantages of a Dropper over Self-Rakes. The Self-Rake has yet to be introduced which can deposit the grain in so close and uniform a gavel as does the Acme *with dropper*. Four men can bind more grain after this machine than six after a self-rake, as the swath is compressed and left in a compact gavel, obviating loss of time in arranging it for binding. It is light, less complicated, and works with one-third less draft on the team than any Self-Rake in the country, and on account of its simplicity, there is less time lost in keeping it in repair.

What we Most Emphatically Claim and are Prepared to Warrant it that either as a reaper or a mower, with proper management, the Acme will *do its works better*, with *less draft* upon the team, and that it is *more conveniently managed* than any other mower or reaper in the market.

The Carter Gleaner.

Which we have adjusted to the Acme is a new and very valuable attachment to the Dropper Harvester, and was first used for the harvest of 1871, and it gave such perfect satisfaction that all who have seen it work pronounce it the most valuable machine for its price ever offered to the farmer. It will save grain enough to pay for itself every day it is used. It does the work perfectly, and almost without any additional labor on the team and driver. To be fully appreciated it must be seen in use. Price, \$10.00



THE ACME MOWER READY FOR WORK.

THE ACME MOWER WITH BAR FOLDED FOR TRAVELING ON THE ROAD.





THE ACME WITH SEIBERLING DROPPER ATTACHMENT.

The following Reports of Committees on trials,
evidences the fact that the Acme Mower and
Reaper is in every way superior to any
other Machine manufactured.

A Great two days' trial of Reapers and Mowers, near Nevada, Ill., July 16th
and 17th, 1872, the Agent of the Acme the Challenging party.

After a thorough and severe trial, in prairie and slough grass, it
was arranged that the decision should depend upon the votes of all the
farmers present, and a committee of three were appointed to receive
and count the votes; the report of which committee showed 30 votes
for Acme, 12 for the Warrior, 9 for the Meadow-King, 9 for the
Kirby, 6 for the Empire State, and none for the Woods, giving the
Acme a majority of 18 votes over any other machine in the
contest. The Agent for the Acme produced a Dynamometer, and
insisted upon testing the Draft of the several machines, when some of
the competitors withdrew from the contest, leaving THE ACME VICTOR
OF THE FIELD.

COMMITTEE, { Nathaniel Geer,
A. Eastman,
S. Stearn, *all of Nevada, Ill.*

The following certificate is corroborative evidence of the su-
periority of the Acme:

WM. BAYLIS FARM, near Nevada, Ills., July 17th, 1872.

CHAS. PARKER, Esq. *Agent Acme Mower and Reaper, Nevada, Ill.:*

DEAR SIR:—We have witnessed the contest between THE ACME,
Woods, Meadow-King, Empire State, Kirby and Warrior Mowers,

and are convinced that on account of its many advantages over ALL OTHERS. THE ACME is the best machine in the market.

Yours truly,

Patrick Moran,	J. Rudy,	J. Devine,
Thos. Collins,	Jas. Curtis,	Orvil T. Lee,
John Casey,	John Ambrose,	R. Geer,
James Casey,	Geo. Miles,	R. T. Searle,
Patrick Adams,	J. Hartey,	J. A. Hadley,
James Dunbar,	Jas. Daugherty,	John Higgins,
Thos. Daugherty,	Frank Daugherty,	Chas. Malaney,
Patrick Ralph,	D. Lannan,	John Freeland,
Owen Collins,	Wm. Boyle,	Daniel Boyle,
Jas. Langan,	Jno. W. Hooner,	W. D. Willoughby,
	Sheriff.	Deputy Sheriff

REAPER TRIAL AT NEVADA, ILL.

CONTINUED JULY 17TH, 1872.

In response to a challenge for ALL REAPERS to meet the Acme in a trial in grain, the Woods Self-Rake and the New York Self-Rake were tried in competition with the Acme Dropper, the result of which is explained in the following certificate, signed by every farmer in the field :

NEVADA, ILLINOIS, July 17th, 1872.

We, the whole number of farmers present at the trial of Reapers, on the farm of Mr. Wm. Boyle, after having witnessed the operation of the Woods' Self-Rake, the New York Self-Rake, and the Acme Dropper, have unanimously decided that we prefer the Acme to any other Reaper that we have ever seen operated. SIGNED,

Jas. Langan,	Wm. Boyle,	Thos. Daugherty,
Daniel Boyle,	Owen Collins,	Owen McMahan,
Wm. Losh,	Anthony Rudy,	J. H. Adams,
Patrick Moran,	Thomas Collins,	Michael Rogers,
Wm. Morrissey,	James Dunbar,	W. D. Willoughby,
		Deputy Sheriff.

REAPER AND MOWER TRIAL

AT WASHBURN, ILL., JULY 19, 1872.

In response to a challenge for all Reapers and Mowers to meet the Acme in grass and grain, none put in an appearance except the Clipper as a Mower. The machines were well handled and both done good work. The agent for the Acme unhitched the traces of the near horse, and took off the neck yoke, yet done good work with the machine drawn by one horse, showing conclusively that there is neither side draft, nor weight on horses necks.

The draft of the Acme cutting 4½ feet was 104 pounds

The draft of the Clipper cutting 4 feet 3 in. was 218 pounds, which was considered sufficient evidence of the superiority of THE ACME. The Acme was worked as a Reaper, and was very generally admired.

COMMITTEE, { James Freeman,
Chas. Bogs,
Theodore Blackman, all of Washburn, Ill.

MOWER TRIAL AT VARNA, ILL.,

JULY 8th, 1872.

It having been arranged between the agents of the Acme and McCormick Mowers for a Mowing match on the farm of Mr. Broadus, near Verna. The conditions of which were that Mr. Broadus was to purchase the machine which considered the best, Mr. Charles Parker of Nevada, Ill., Agent of the Acme, then challenged all Mowers that might dare compete, but on coming to the field none but the Advance had put in an appearance. The grass was not considered very difficult to cut, but the Acme made some extraordinary performances, such as mowing with the slowest possible gait of the team, showing the advantages of the quick speed of knife, then changing of the motion and driving the team on a rapid gallop, demonstrating the utility of the changeable speed in the Acme.

The result of the contest was decided by the vote of all the farmers present, the Acme receiving 29, and the Advance 3 votes.

COMMITTEE, { Wm. H. Wright, Wm. Myers,
John Wright, Geo. Mays,
Chas. Bain, all of Varna, Ill.

Mr. Broadus purchased the Acme, and two more were sold to witnesses of the trial. The following certificate was signed by the witnesses of the trial.

BROADUS FARM, NEAR VARNA, ILL., *July 8th 1872.*

We, the undersigned farmers and citizens of Marshall County Ill., have to-day witnessed the operation of the McCormack and Acme Mowers, and after having seen them thoroughly tested in every particular, we are convinced that the Acme is better adapted to the wants of the farmer than any other machine that we have ever seen operated, and would advise every farmer to examine the Acme before purchasing any other.

SIGNED,

John Kelley,	Alex. Wright,	H. Motzke,	Geo. Miller,
Wm. Koch,	O. P. Sloniger,	P. McGrath,	John G. Brown,
John Wright,	Barney Kelley,	Wm. Wright,	Chas. Mosier,
Philip Kelley,	J. Myers,	Wm. Myers,	Chas. Shumate,
Bernard Roy,	A. Shumate,	John Brown,	Geo. Mays,
J. S. Myers,	Wm. B. Ramsey,	Ira Wright,	Wm. Odg,
James Craft,	F. H. Holeton,	James Allen,	T. B. Larkin.

REAPER AND MOWER TRIAL

AT MINONK, ILL., JULY 13, 1872.

In response to a challenge for the whole Reaper und Mower fraternity, to meet THE ACME in grass and grain, none except the Kirby, as a mower, dared to compete. The Acme alone came to time as a reaper, and was operated amidst deafening cheers for the VICTOR. The decision, in regard to the merits of the Mowers, was left to a vote of all the farmers present, which was unanimous for THE ACME. The Kirby withdrew from the contest before the test of Draft, which test proved that the Acme cut a $4\frac{1}{2}$ foot swath on only 125 pound draft.

WM. BROWN, Committee on Draft.

COMMITTEE OF THE WHOLE.

We, the farmers of Woodford County, Ill., have witnessed the working of THE ACME Mower and Reaper, and Kirby Mower, and are convinced that either as a Mower or Reaper, the ACME excels everything that we have ever seen work, as a harvester, in grass or grain.

Jackson Parker,	Chas. Moss,	H. H. Christman,	A. W. Fuller,
J. H. Brown,	Phil. Rohman,	J. L. Leyson,	Milton Shreve,
Fred. Biley,	R. G. Brown,	Wm. Brown,	A. Brock,
T. T. Powell,	Wm. Gordon,	Fred. Sendland,	A. D. Addis.

Great Three Days Field Trial!

AT HAGERSTOWN, MD., JUNE 19TH, 1871. 1ST PREMIUM AWARDED
TO THE ACME.

LIST OF MACHINES ENTERED IN TRIAL TEST.

NAME.	WIDTH OF CUT.	DRAFT.	MANUFACTURED AT.	EXHIBITED BY.
Planet Mower.....	4 ft. 3 in.	210 lbs.	Hagerstown, Md.....	McDowell & Bechtol.
Wood, Combined.....	4 " 6 "	225 "	Hoosac Falls, N. Y....	Rollins & Burbank.
Williams Small Mower....	4 " 0 "	185 "	Syracuse N. Y.....	Dyer Williams.
Williams Combined.....	4 " 6 "	210 "	Syracuse, N. Y.....	Dyer Williams.
Acme Mower and Dropper	4 " 6 "	150 "	Wheeling, West Va.	G. W. N. Yost.
World No. 2 Combined....	4 " 0 "	245 "	Canton, Ohio.....	J. T. Mangus.
Dodge No. 2 Combined....	4 " 3 "	250 "	Auburn, N. Y.....	Garver & Flaniain.
Hubbard Large Combined.	4 " 6 "	200 "	Rochester, N. Y.....	J. D. Koogle, Agent.
Champion No. 4 Combined.	4 " 11 "	240 "	Springfield, Ohio....	Hagerstown I. M. Co.
Kirby Two-wheel Mower..	4 " 3 "	215 "	Auburn, N. Y.....	Rollins & Burbank.
Sprague Mower.....	4 " 0 "	237 "	Providence, R. I.....	Rudy Herr.
Buckeye Mower.....	4 " 6 "	240 "	Canton, Ohio.....	

REAPER AND MOWER TRIAL

AT COLLINSVILLE, ILLS., JULY 15TH, 1872.

By invitation of Conrad Witte, of Collinsville, we, the undersigned, farmers and citizens of Madison county, Ill., are here to see the Climax and Acme Reapers and Mowers operate in grass and grain, and after having seen them thoroughly tested in every respect, we are free to say that either as a Reaper or Mower, THE ACME is the lightest draft, most conveniently managed, and best machine in the market. (Signed,)

Chas. W. Kromer,	Henry Blume,	C. Schunk,
Wm. Peters,	Wm. B. Waddle,	Christian Hofel,
Henry Stunkle,	August Tagtmeir,	Christ Weise,
H. Schunk,	F. Rasche,	Wm. Rimsler,
H. Witte,	H. Horsemann,	Wm. Nesley,
C. Rombk,	E. Witte,	H. Ohlemann.
Toph. H. Sepmeyer,	Chas. Sepmenyer,	

MOWING TRIAL AT WASHINGTON, ILL.

PETER PORTMAN'S FARM, NEAR WASHINGTON, ILL., July 20, 1872.

Having noticed a challenge for all Reapers and Mowers to meet THE ACME in grass and grain, we, the undersigned, came here to witness a contest, but for some reason THE ACME is here without a competitor. We have, however, seen it operate as a Mower, and subjected

to severe tests; such as driving very slowly through tough Blue Grass, taking off the Neck Yoke, and unhitching the near horse, to show that it was of light Draft and had no side Draft nor weight on horses necks. The team was also driven at a rapid gallop with the knife in motion, to show that it is strong and not liable to get out of order. From our knowledge of Reapers and Mowers we are satisfied that the Acme is the best machine in the market.

Jacob Warhen,
Fred Kehr,
John Nofziger,

Jos. Keyser,
Henry Christ,
Peter Portman,

B. F. Berry,
Joseph Portman.

ADDITIONAL REFERENCES.

Wm. Holmes,
Christ Belsley,
Wesley Harvey,

Benj. Kindig,
J. A. Andrews,
Lawson Holland,

Joseph Miles,
Jonathan Mills.

WARRANTY.

The Acme Mower and Reaper is WARRANTED to be made of good material, free from defects, and to do **BETTER WORK** in either grass or grain, with **LESS DRAFT** on the team, and to be more conveniently managed than any other Mower or Reaper in the market.

PRICE LIST OF ACME MACHINES.

Acme Changeable Speed 4 ft. Mower.....	\$135
“ “ “ 4½ ft. “	140
“ “ “ 4½ ft. “ with Dropper.....	175
“ “ “ 4½ ft. “ with Extra Reaper Bar...	185
The Carter Gleaner Attachment.....	10

*15 per Ch off to Trainers
for Cash*



NO. 4-WITH CLEVIS.

BUCKEYE

GRUBBERS AND STUMP PULLERS.

THESE machines combine portability and great strength, and are almost equally handy for extracting grubs or trees from one to ten inches in diameter, and old stumps from one to four feet in diameter, according to their state of decay. The wheels of the machine serve not only to make it portable, but when it is ready for operation, and the wheels are locked firmly to the lever, they are rendered a part of the same, and as this lever is operated, they revolve upon

the ground and exert the power of a pulley, at the same time carrying the fulcrum forward as the stump or grub is elevated, allowing the roots to raise freely out of the ground without binding; acting also as a truck for removing the tree or stump to any desired distance after being extracted. (See cut, 2d page cover.)

By this intelligent combination of the mechanical forces of the *Lever* and the *Pulley* in the machine proper, and the use of a double and a single pulley with ropes, one horse is rendered equal to fifty-horse power, and being light, portable, strong and durable, it is profitable to the farmer for his own use, and the jobber in clearing lands for others. The actual expense of clearing land by the use of these machines is from 200 to 300 per cent. less than the same land can be cleared by any other process, and the land is most effectually prepared for the plow or cultivator, which is all important to the farmer, as there are no roots left to break plows or produce a second growth of timber; while in preparing timber lands for pasture, the ground is left in an excellent condition for seeding.

In offering these machines to the public, we make no broad assertions in regard to what can be accomplished by their use, but allow them to STAND UPON THEIR MERITS, believing that in introducing them, we are meeting a demand which has long been felt, yet never supplied; and accomplishing a work which will be duly appreciated by the friends of progress—especially such as may have lands to clear, or are interested in the more rapid development of the agricultural resources of the timbered portions of the West.

To show to what extent they are appreciated by the leading landlords and farmers who have witnessed their operation near St. Louis, we publish two of the many testimonials received in regard to their merits since their first introduction in this part of the country.

EXHIBITION EXTRAORDINARY!

JEFFERSON K. CLARK'S FARM, AMONG THE TREES, May 6th, 1871.

EDITOR REPUBLICAN:—By invitation of Stewart & Needham, of your city, we came to witness the operation of their Buckeye Grubbing Machine, some of us expecting to see a grand failure, but contrary to our expectation, we were agreeably surprised by its performances. In timing it while in operation, it extracted 22 grubs, or trees, in ten minutes, ranging in diameter from two to six inches. A larger machine extracted trees from two to nine and a half inches in diameter, the largest being a hickory, with tap-roots six feet long, and lateral roots seven feet.

The operation was upon a very tenacious clay sub-soil, and the machines were operated with ease by one pair of mules. These machines are well adapted to the purpose, and are a saving of from

two to three hundred per cent. of the ordinary expense of clearing land. Machines were sold on the ground to Messrs. R. C. Shackelford, President of the Bellefontaine R. R., St. Louis; J. K. Clark, Esq., Baden; Willis Hord, Baden; W. B. Collier, Baden; H. W. Beck, Farmers' Exchange, St. Louis. Mr. Shackelford buying one each of two sizes.

Very respectfully,

J. K. Clark, J. K. Clark, Jr., G. W. Clark, H. W. Beck,
R. C. Shackelford, C. Wood, G. W. Clark, Wm. B. Collier,
Willis Hord, R. S. Voorhis, John H. Reel, Jno. Goodfellow.

BADEN, Mo., May 6th, 1871.

MESSRS. STEWART & NEEDHAM, 16 South Main St., St. Louis—

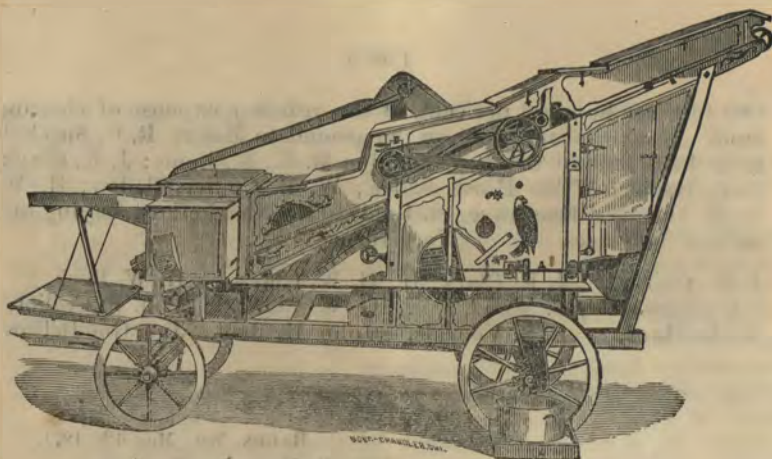
GENTLEMEN:—At an exhibition on grubby lands of Willis Hord, in St. Louis county, we, the undersigned, have seen the merits of your Buckeye Grubbers thoroughly tested, and can safely say that it is one of the greatest labor savers of the age, and do cheerfully recommend the machine to all who may have land to clear, as the trees may be *extracted by the roots*, by the use of a team and three men, as fast as the same number of trees could be cut off by a good chopper.

Yours respectfully,

Willis Hord, G. W. Garrett, H. Jacobsmeyer, John Gardner,
B. M. Chambers, David Wise, John McNichol, Chas. Lewis, Jr.,
Wm. Lee, Wm. H. Gibson, John Hencher, Robt. Schnecko,
J. H. Garrett, John H. Reel, T. E. McClure, Walker Henley,
W. Hammersen, John Wise, Oliver Benton, Frederick Price,
Columbus Lee, Thos. Gardner, Wm. B. Pastorus, Wm. M. Little.

PRICE LIST.

No. 1, with Ropes and Pulleys.....	\$185 00
" 2, " " " "	130 00
" 3, " " " "	105 00
" 4, " " " "	70 00



THE J. I. CASE & CO., Threshers, Horse Powers, Engines, &c.

The Case Threshers are adapted to working with any style of Horse Power or Steam Engine, and we will furnish customers with any style of Power required. The Case Machines are warranted to do as good business in threshing and cleaning grain as ANY OTHER MACHINE IN THE UNITED STATES, and to be made of good material, and as durable as any other with proper care. We will give a TWO WEEKS' TRIAL of each Machine, and if it will not bear the above warranty, it shall be returned to the place of delivery, and another substituted therefor that will answer such warranty, or the payment immediately refunded. As an evidence of the merits of the Case Thresher, over one thousand are made and sold annually.

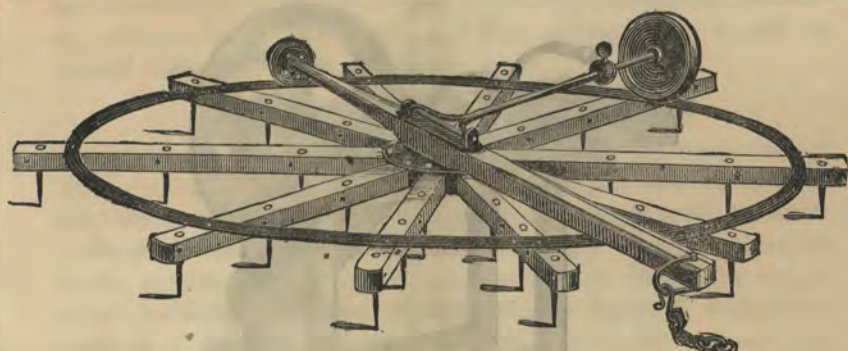
PRICE OF MACHINES DELIVERED AT DEPOT OR BOAT, SUBJECT TO FREIGHT AND CHARGES.

MACHINES COMPLETE.

The Horse Climax or Pitts' Down Power, with 32-inch Cylinder Separator, Thimble Skein Truck Wagon, Straw Stacker, 18 feet long, to raise with Gear and ropes, Whiffletrees and Neck-yoke Belts, &c., complete.	\$600 00
For a 36-inch Cylinder Separator, additional to the above	20 00
Eight Horse Climax or Pitts' Down Power, with 32-inch Cylinder Separator, Thimble Skein Trucks and Straw Stacker as above.	590 00
Ten-Horse Woodbury Power, and 32-inch Cylinder Separator, Thimble Skein Trucks and Straw Stacker, as above.	615 00
Eight-Horse Woodbury Power, and 32-inch Cylinder Separator, Thimble Skein Trucks and Straw Stacker, as above.	605 00
For Ten-Horse Pitts' Power, Mounted on four Wheels, with 32-inch Cylinder Separator, Thimble Skein Truck Wagon and Stacker, as above.	650 00
For Eight-Horse Pitts' Mounted Power, Separator, &c., as above.	640 00
Eight-Horse Climax Power, 24-inch Cylinder Separator, with Trucks, no Stacker.	520 00

TERMS OF PAYMENT ON HORSE-POWER MACHINES.

Two Hundred Dollars, Cash on delivery; One Hundred and Fifty Dollars, Nov. 1, 1873; One Hundred and Fifty Dollars, January 1, 1874; balance November 1, 1873; with interest at 10 per cent. A discount of \$25 for all Cash, or 5 per cent. on all sums over \$200 paid down at the time of delivery. All Trucks, Stackers or Equalizers sold alone, to be Cash on delivery.



MONROE'S IMPROVED ROTARY HARROW.

The Great Grain Coverer and Pulverizer of the Soil.

1st. It will do two or three times the work at once going over the ground of any other Harrow known, and may be operated by a small boy.

2d. It pulverizes the soil and levels the surface better than any other Harrow, never leaving in ridges and ditches.

3d. It is no harder on the horses than any other Harrow of the same size.

4th. It not only harrows the ground lengthwise but crosswise at the same operation, always revolving in the same direction that the furrow has been turned, if required.

5th. It can be used on sidehills, and be made to follow the horses by keeping the wheel on the down hill side.

6th. *It will not choke or clog in any kind of ground*, as it frees itself from Straw, Corn Stalks, Weeds or Manure, leaving them distributed evenly over the surface.

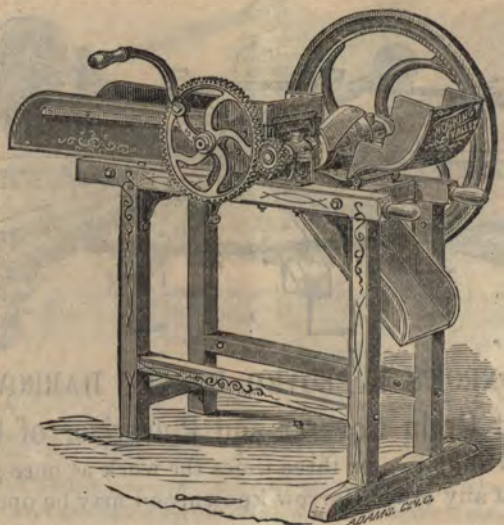
7th. It is strong and well made, and will not get out of order, and when the wood is worn out it can be re-wooded by any farmer.

8th. A box can be attached to the draw-bar, if it is desired, to weight the harrow or carry stones off the field.

It will work on any kind of ground, or in any kind of soil, where any other Harrow will, and is warranted to give satisfaction.

SIZE, NUMBER OF TEETH, WEIGHT, AND PRICE AT ST. LOUIS.

No. 1,	4½ feet,	20 teeth,	115 to 120 lbs.,	price.....	\$21 00
No. 1½,	5¼ " "	25 " "	150 to 160 lbs.,	"	23 00
No. 2,	6 " "	30 " "	180 to 190 lbs.,	"	26 00



THE HOCKING VALLEY—EAGLE FEED CUTTER.

Since its invention, about three years ago, this machine has been fast growing in favor throughout the country, and is fast becoming the favorite with all classes, owing to its adaptability to any kind of work required by it, ease and rapidity with which it does its work, ease with which it is adjusted to cut long and short, convenience of being kept in order, strength and force of construction; being always ready for use, and last but not least, its never failing to please them.

A DESCRIPTION OF THE CONSTRUCTION

is not necessary, as the accompanying cut will serve to show that it is strong and well proportioned. A word about the cutting and feeding arrangements will suffice.

THE KNIFE

is made of the best cast-steel laid upon iron, very heavy and strong; is made of a spiral form, firmly bolted to strong arms on a revolving shaft, and held in its place by two bolts, so that it may be easily removed for grinding. This knife shaft is so geared as to make four cuts to one revolution of the hand, and the balance wheel being on this shaft, gains such force in the revolution as to cut through the feed with the greatest ease.

THE SHEARING BAR,

against which the knife works with a shearing, drawing cut, is made of cast-iron, heavy and strong, and is so arranged that it can be moved toward the knife as it wears away.

THE FEED ARRANGEMENT

it very simple, strong and effective, and unlike all machines fed with gearing, it draws the material forward the desired distance after the knife has passed the bar, and holds it there until the knife again passes and cuts it off, thus avoiding any crowding against the knife; and no change of gearing is necessary to change the length of cut, but simply to loosen one nut and slide the back ends of the pauls up or down as desired, and again tightened the nut, and can thus be changed to cut any length desired from one-fourth to nearly two inches.

THE FEED ROLLERS

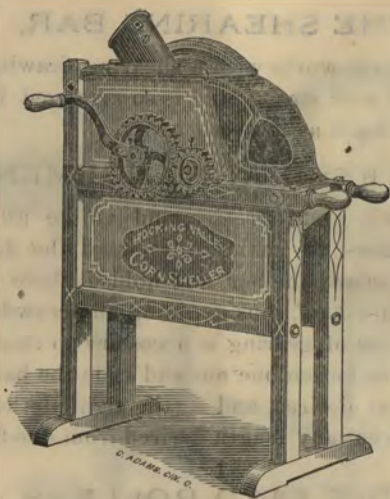
are made of fluked iron with an iron shaft passing clear through them, the top rollers are pressed down by springs resting upon each end of the shaft through the rollers. This machine was awarded the first premium at the Great St. Louis Exposition in 1871 and '72; the Kansas City Exposition 1871; the Kansas State Fair 1871; the Illinois State Fair 1871; the Iowa State Fairs of 1870 and 1871, and all the county and district fairs wherever exhibited during the last season.

PRICE LIST AT ST. LOUIS.

No.	LENGTH OF KNIFE.	CAPACITY PER MINUTE.	PRICE AT FACTORY.
1	6 inches	$\frac{1}{2}$ bushel.	\$20 00
2	8 "	1 "	25 00
3	11 "	1 $\frac{1}{2}$ "	30 00
4	13 "	2 "	35 00
5	15 "	3 "	40 00
6	20 "	6 "	75 00

EXPLANATION.

Nos. 1, 2 and 3 for hand only. No. 6, for power only. Nos. 4 and 5, for hand and power, \$5 extra.



The Hocking Valley Corn Sheller,

Just brought before the public, is fast becoming a favorite of every one who glances at it, owing to its

CONVENIENCE OF CONSTRUCTION.

It is arranged so as to be fed by the operator; for this purpose we put on an extra pinion and a crank wheel, as plainly seen in the cut; this reverses the hopper, or the feed hole, and throws it on the left hand side of the operator; therefore it can be turned by the right hand and fed with the left, requiring but one man to operate it.

THE CONSTRUCTION

Itself needs but little explanation:—It is a wooden frame put on two cross pieces—serving as feet, the two top rails have handles turned on one end, which makes it very convenient in handling. The two back posts run up to the full height of the machine; the whole is bolted firmly together with joint bolts and rods. The side boards or pannels are grooved into the frame, and then a very handsome

FINISH,

Which makes it just what we claim for it—the best looking Sheller in the market. We paid our special attention to this part, to make this Sheller look workmanshiplike; we paint the boards in different colors, stripe and varnish the frame nicely.

Parties ordering any number will always find a great variety of shades and colors to suit their customers.

THE IRON PARTS.

All the castings are made from an entire new set of patterns, gotten up by ourselves.

The FACE PLATE, which also serves as master wheel to drive the feed wheel, has a rim cast between the shelling teeth and the cogs, to prevent the corn from getting between the cogs of the master wheel and the little pinion, and to secure it still better, we put on an extra.

GUARD, extending from the lower edge of the hopper over the pinion, so as to make it impossible to get any corn mashed up between the cogs.

The HOPPER is screwed on the top board, by means of a flange cast around it, extending about half on top of the machine, as seen in the cut, the other part running down in the machine to the rim of the face plate; one side is cut out to leave free play for

The SPRING, which is made of the best spring steel, especially manufactured for this purpose; an additional spring is put on below the main spring to direct very small ears to their proper place.

The THUMB SCREW in the hopper is to set the spring to suit the corn.

The SHAFTS are made of wrought iron, the one in the face plate is cast in. There is no danger of getting loose or wearing out, for all the journals run in

BABBITTED BOXES, which are screwed to the top rails. On one of these boxes is

The GEAR STAND, cast iron; this combination makes it very substantial. A heavy, stylish

BALANCE WHEEL is put on the feed wheel shaft.

The BONNET, with the discharge hole, and the concave looking out this hole, are fit nicely together.

The CONCAVE extends from the feed wheel half way round the face plate to the discharge hole. We arrange the outside

GEARING so as to have a high speed.

The great advantage of this Sheller is, everything is done on one side, Turning, Feeding and Discharging.

MANUFACTURERS.

Capacity.....150 to 200 bushels per day.

Price at St. Louis.....\$13 50.



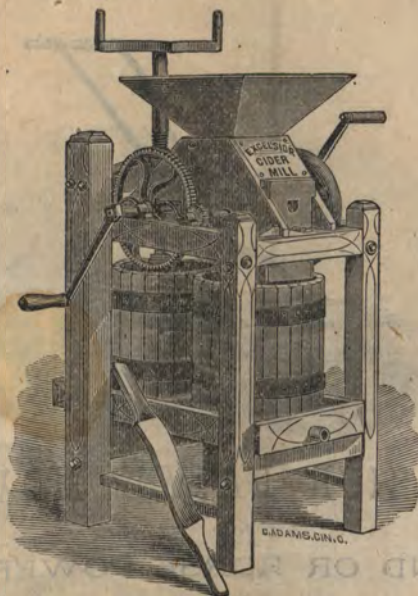
LEED'S CHAMPION POST HOLE DIGGER.

In presenting this Implement a few words only are necessary; all that is required is for any one to see it operate to be convinced of its merits. It has been thoroughly tested in all kinds of ground, and will work where any other Implement of the Post Augur kind can, and in places where they cannot. Railroad and telegraph companies use them, and find them just what they have long needed. Don't take our word for it, but send and get a sample and try it.

ADVANTAGES.

It will dig Post Holes twice as fast as any other Implement of the kind made. It is much easier operated than any augur, and will make the hole any depth desired, and any size or shape, from six inches. Round, oblong or nearly square. It is made entirely of iron and steel, and is in no danger of breaking, the cylinder is all made of steel and will wear for years, and can be easily sharpened when dull. It will work in clay, sand, loam or muck soil, and in gravel unless it is very coarse and clean. The operation is so simple and easy that any one can work it with ease.

Samples sent to any address on receipt of the price, \$5.00, or sent C. O. D.



Excelsior Cider and Wine Mill and Press Combined.

The cut represents clearly the construction of the Excelsior Mills, which are gotten up on a principle entirely different from all other portable mills made, and is warranted to be the best Combined Mill and Press ever invented. The mill is made compact, strong, durable and of great capacity. It occupies a space of only 22x32 inches, weighs only 200 lbs. It grates the apples and grinds very fast and fine. It has a *wooden cylinder*, which will prevent the cider from turning black, which it does on all cider mills made with iron rollers.

The grinders, or knives, are made of wrought iron, and are easily renewed with little or no expense at all.

The feeder in the hopper is to force the fruit down towards the grinding plate. The plate is attached on the back of the hopper, and is so arranged that it can be moved towards the cylinder, or set back just to suit the work. There is no setting of boxes, or moving of shafts or journals; it is done by simply turning a thumb-screw.

CAPACITY.

This mill is warranted to grind a bushel of apples in one minute, or make a barrel of cider in *Forty-five* minutes, and to grind faster, finer, and require less power than any other hand-mill made.

It can be operated by two boys whenever desired.

Retail Price of Mill and Press complete.....\$35 50.



EXCELSIOR LAWN MOWER,

FOR
HAND OR HORSE POWER.

The only Reliable Lawn Mower in the West.

TO THE TRADE.

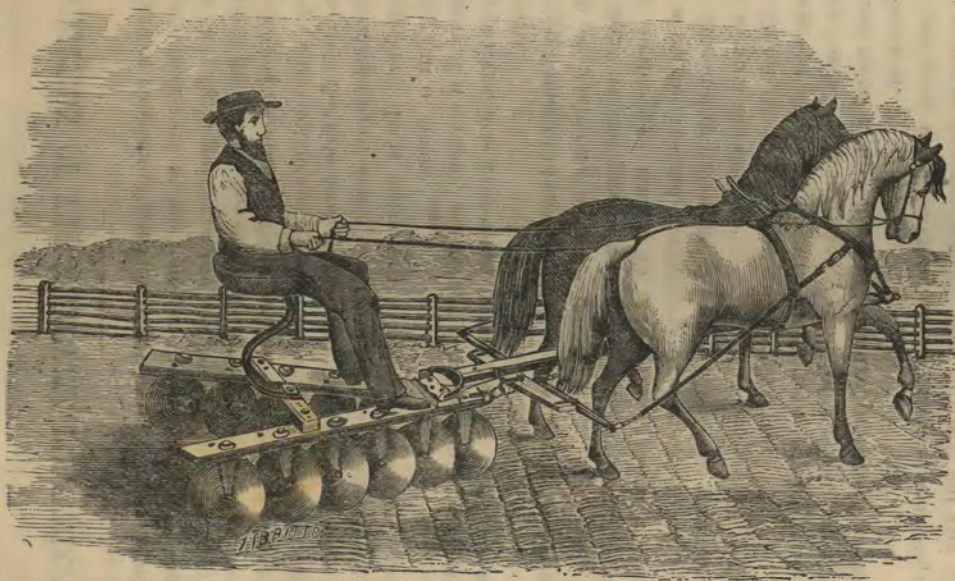
I have long felt the need of a first-class Lawn Mower to supply the trade; and after a close examination of the different Machines, I have secured the agency for the "EXCELSIOR" for the South-west.

I wish to say that it is no new, untried, experimental machine, but one that has been before the public for the past four years with unbounded success, being sold in all the States and Canada, together with large sales in foreign countries.

I have no hesitation in saying that the "EXCELSIOR" has no superior, that it ranks first as the best and most perfect machine in use.

RETAIL PRICE LIST.

	PRICE.	WIDTH OF CUT.	GRASS BOX.	HORSE BOOTS.
No. 0.....	\$16 00	11 inch.		
No. 1.....	25 00	14 "		
No. 2.....	30 00	18 "		
No. 3.....	125 00	30 "	\$10 00	\$12 00 per set.
No. 4.....	160 00	35 "	11 00	" "
No. 5.....	200 00	40 "	12 00	" "



NISHWITZ'S PULVERIZER AND CULTIVATOR
AT WORK, WITH SPRING SEAT AND TONGUE ATTACHED.

DESCRIPTION OF THE NISHWITZ PULVERIZER.

THIS Harrow consists of a series of revolving sharp-edged, circular, concave Disks, set at such an angle in relation to the line of draft, that they fully pulverize the soil by cutting, lifting and turning it over in fine, small furrows. The frame consists of two pieces of wood, hinged together in front, which are secured at any desirable distance apart by means of a cross-bar, bolted across the center of the frame. To this cross-bar is attached a comfortable spring seat. For purposes of storing or transportation, the frame can be folded together. It is extremely simple in construction, and not liable to get out of order.

By means of a scraper, against which the concave, circular disk or tooth revolves, it is kept clean or scoured in the most adhesive western soils.

It is an implement indispensable to every go-ahead farmer who expects to get a fair return for his labor.

It has many advantages over every other harrow or cultivator.

It will enable the farmer to ride with as much comfort as he would in a wagon, instead of trudging over rough land.

It will thoroughly pulverize the soil, where the common harrow will only scratch the surface.

It will thoroughly mix the soil and fertilizers.

We have the *strongest* and most *disinterested* evidence for saying that thirty loads of manure, or two tons of ground bone, with this harrow, are equal to fifty loads of manure, or three tons of ground bone, without it.

It will not catch weeds, stubble, coarse manure, or roots, and clog up like a common harrow or cultivator, but will cut and mix them with the soil.

It will not turn up the sod when using it on sward land.

It will thoroughly prepare land for the seed drill.

It will cover grain as well as the seed drill, and in many instances even better.

It will work on wet land where no other implement will, and save much valuable time in putting crops in the ground in proper season.

It will more than save its cost in preparing five acres of sward land for corn.

It will produce a better crop, by thoroughly loosening and mixing the soil.

It will actually save plowing in many instances.

Land plowed in the fall can be prepared for crops in the spring without re-plowing.

It is the best implement for pulverizing newly-broken land.

It is just the thing for summer fallowing land; it will work up the soil, and is sure to kill all weeds.

It is good to renovate moss or sod-bound meadows.

It is a perfect implement for scarifying meadows and pastures, where the grass has run out, and it is desirable to re-seed without plowing.

It is a good clod-crusher.

It is a splendid corn cultivator, for young corn.

It covers corn very nicely and rapidly.

It is good for every other purpose where a harrow or cultivator can be used.

It is durable, and is easily and cheaply repaired when worn out.

PRICE LIST

OF

NISHWITZ'S PULVERIZER AND CULTIVATOR,

DELIVERED IN CLEVELAND, OHIO.

(Freight added as St. Louis.)

No. of Pulverizer	Horses re- quired to op- erate it	Number of Disks.	Diameter of Disks.	Weight Complete	Price with- out tongue	Price complete with tongue.
No. 1	2	11	11 in.	200 lbs.	\$30 00	\$32 00
" 2	2	13	11 in.	225 "	33 00	35 00
" 3	3 or 4	11	15 in.	400 "	45 00	No Tongue.
" 4	4	13	15 in.	450 "	55 00	" "

The No. 1 (11 Disks) Pulverizer, with Spring Seat and Tongue complete, price \$32, is the most popular size for all general purposes, and is the size we sell the most of, and always send unless specially ordered otherwise.

The Tongue is indispensable if the Pulverizer is to be used in cultivating corn or grapes, for which it is very highly recommended.

Nos. 3 and 4 Pulverizers are very large, with 15 inch Disks, used with three or four horses, principally for general cultivation on the largest farms and on the Western prairies, in place of second plowing, to cut up the prairie sods, and on the Southern plantations as a gang plow—where it does the work of many plows, saving much time and expense.

Prices of the Different Parts of the Pulverizer.

[FOR REPAIRS ONLY.]

[REPAIRS ONLY.]			
Disks, each, for Nos. 1 and 2.....	\$0 80	Steel Journals, each, for Nos. 1 and 2, \$18 00	
do " " 3 " 4.....	1 75	do " " 3 " 4, 35	
Columns, each " 1 " 2.....	50	Scrapers, " " 1 " 2, 10	
do " " 3 " 4.....	1 00	do " " 3 " 4, 25	
Eye Bolts, " " 1 " 2.....	35	Seat.....	1 50
do " " 3 " 4.....	60	Seat Spring and Bolts.....	1 50
Clevis.....	60		

Manufactured for and Sold

—BY—

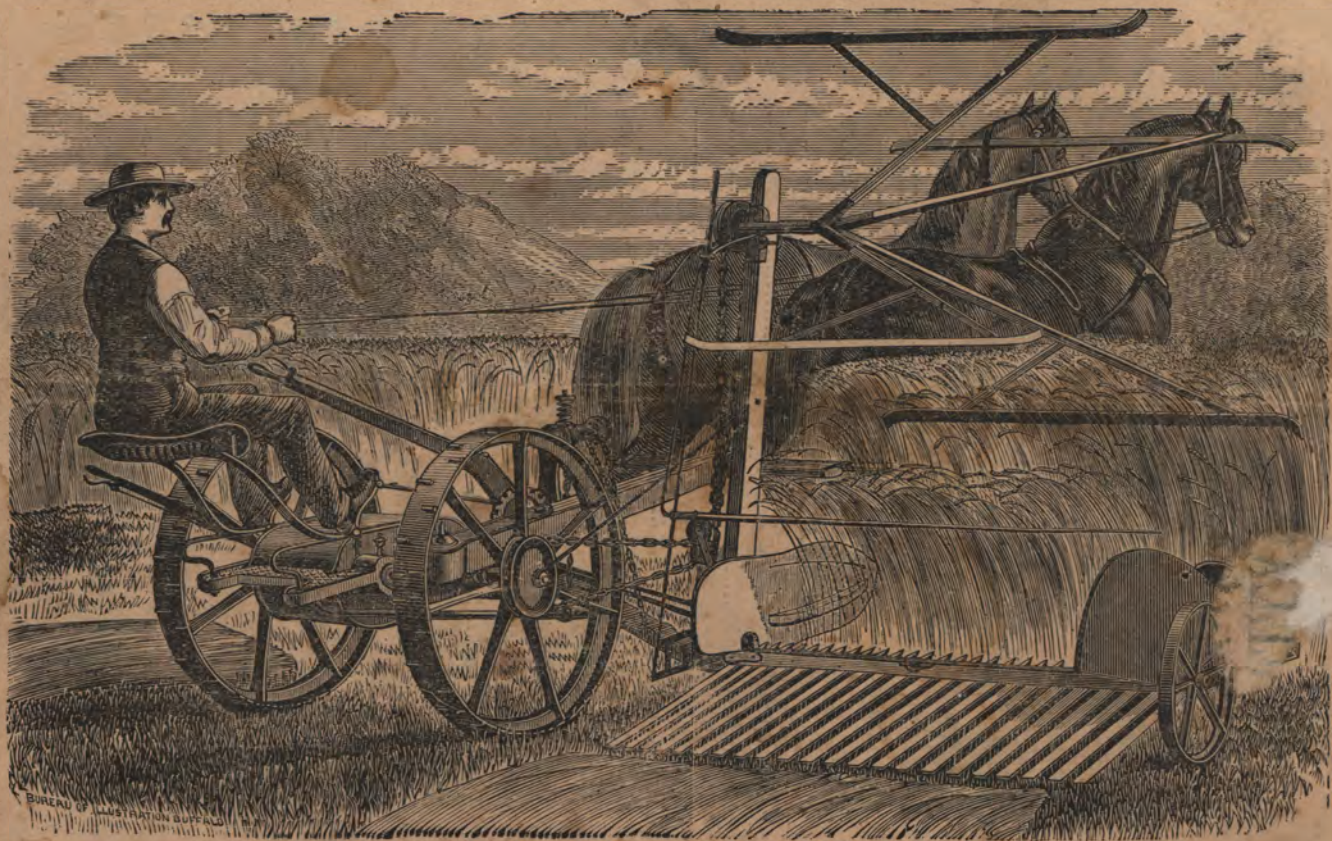
NEEDHAM & MARTIN.

MISCELLANEOUS PRICE LIST.

Of Goods in our Price List not fully Illustrated herein.

Gang Plow, for old ground or sod.....	\$ 75.00
Sulky Plow, for old ground or sod.....	55.00
Walking Cultivators.....	35.00
Riding Cultivators.....	55.00
Walking and Riding Cultivators, Combined.....	45.00
Five Tooth Cultivators.....	10.00
Double Shovel Plows.....	7.00
Corn Planters.....	65.00
Corn Mills.....	55.00
Combined Corn Mill and Sheller.....	75.00
Hay Stackers with Fork, Complete.....	65.00
Sulky Hay Rake.....	45.00
Revolving Hay Rake.....	8.00
Hay Gatherers.....	45.00
Farm Wagons with Seats and Brakes.....	90.00
Spring Seats for Farm Wagons.....	6.00
Wagon Pole Spring.....	5.00
Wind Mills for running Machinery.....	150.00
Horse Power.....	60.00
Wood Saw and Frames.....	55.00
Grain Drills of several patterns.....	80.00
Fanning Mills.....	35.00
Hay and Cotton Presses.....	300.00
Road Scrapers.....	10.00
Potato Diggers.....	35.00
Lard Presses.....	10.00
Cistern Pumps.....	8.00
Farm Bells.....	8.00
Whitney Motors, for Crank Power.....	5.00

 All Goods warranted to work in a perfectly satisfactory manner.



THE ACME WITH SEIBERLING DROPPER ATTACHMENT.