

1893.

1894.

David Stony 2
Illustrated Catalogue

NO. 2.

OF

Agricultural Machinery and Supplies,

—FOR SALE BY—

J. BAGGIMAN,

—MANUFACTURERS' AGENT AND DEALER IN—

Creamery Apparatus and Dairy Fixtures,

Belting, Pipe and Fittings, Boilers, Engines, &c.

LATEST PATENTS,

LOWEST PRICES,

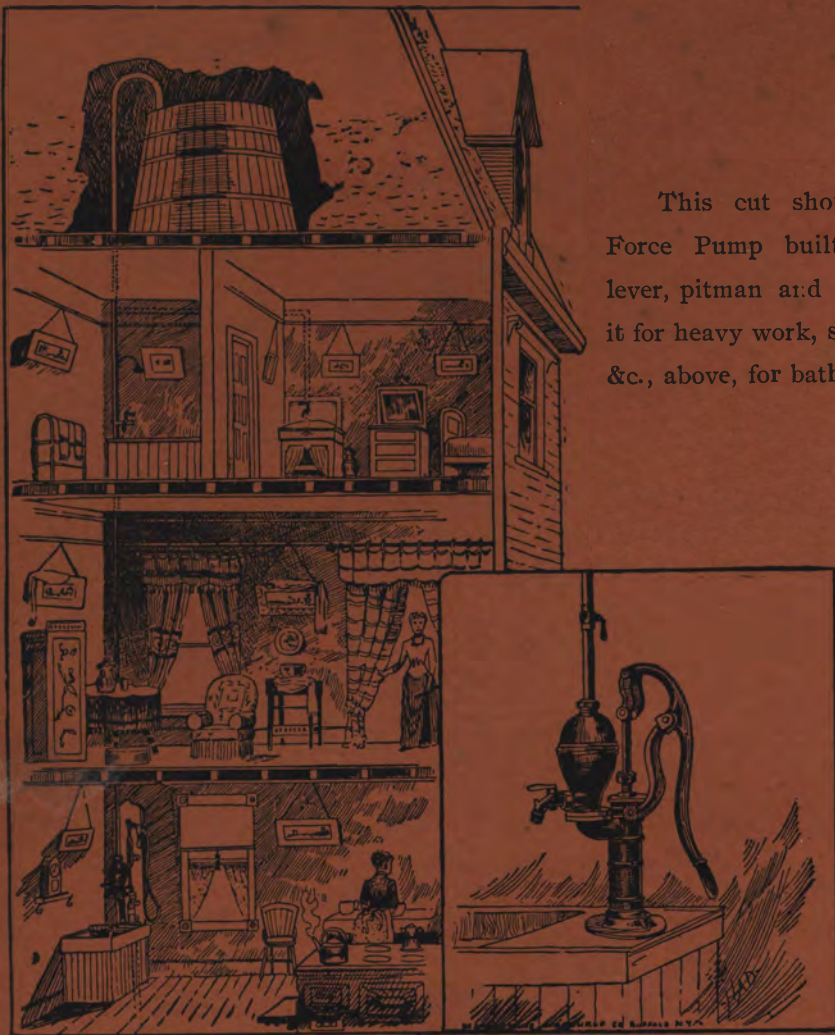
LARGE ASSORTMENT.

Examine our fresh-selected stock before purchasing, or write for special circulars, prices and discounts.

STONY RUN, PA.

Telephone and Telegraph }
Communication.

KEMPTON, PA.

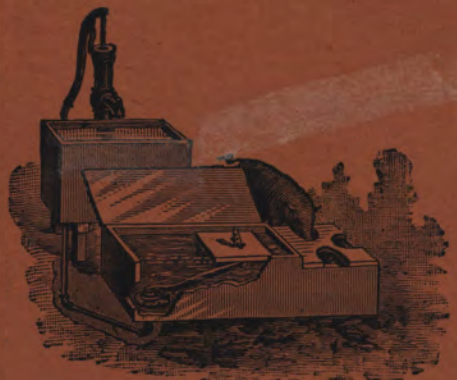


This cut shows a double acting Force Pump built with long heavy lever, pitman and guide, which adapts it for heavy work, such as filling tanks, &c., above, for bath rooms, closets &c.

The Adam's Hog Waterer.

Works automatically, hence there can be no waste of water.

The water cannot get dirty, it is a practical thing for stock raisers.



PISTON ✧ WHISTLE.

A simple, practical, valuable,
sound Steam Whistle.
Especially adapted for Trac-
tion Engines, Locomotives,
Steamboats, Factory and Mill
use. An excellent fire alarm.

Attached like any ordinary whistle. The bell is provided with a piston, which is pulled downward by a chain running between pulleys, and when not in use, is always at the top, being drawn upward by means of a spring. To change the sound, pull the chain.



THE dome shaped bell is securely supported at its base by a three prong, the stem of which is adjustably screwed into the whistle base, and fastened by jam-nut (E).

Owing to this construction, the lower edge of the bell is always exactly in line with the slot in the base through which the steam escapes, thereby insuring best results and a perfect, clear and loud tone. The bell is raised or lowered to suit the steam pressure by screwing same up or down, and when properly set is fastened by jam-nut (E).

Made of the best material
and fully warranted.

Fig.

PRICE LIST.

Diameter of Bells, in	2	2½	3	3½	4	5	6	8	10
Size of Pipe Connection, in	½	¾	¾	1	1¼	1½	1½	2	2½
All Brass with Valve, each	8 00	10 50	14 00	20 00	28 00	40 00	56 00	120 00	225 00
All Brass without Valve, "	7 00	9 00	12 00	17 50	25 00	37 00	50 00	105 00	120 00
Iron Base without " "			11 50	16 50	23 00	34 00	46 00	87 00	160 00
Pressure to Blow,	60	75	75	75	75	75	75	100	125

THE "DAISY" CORN HARVESTER.

With the Valuable Improvements for this Season, Takes the Lead of Them All.



GREATEST MONEY AND LABOR SAVER IN THE MARKET.

200 to 300 Shocks of Corn can be Cut per Day, and \$10.00 to \$15.00 per Day Saved by the Farmer is Claimed by the Manufacture

THE DAISY CORN HARVESTER

IS NOW IN ITS FOURTH YEAR OF GRAND SUCCESS, AND IS A VALUABLE INVENTION, FAR SURPASSING THE EXPECTATIONS OF ALL.

The Valuable Lever Improvement for Instantly and Easily Opening and Closing the Cutting Wings. Places the Daisy so Far Ahead of All of Its Competitors That they are not in It in Comparison With them.

Farmers Should Not Buy a Back Number, When They Can Get The Latest Issue.

With the Daisy, The Formerly Slow and Disagreeable Labor Accomplished Rapidly and Easily.

To be the best implement of the kind ever put on the market, and a pronounced success in every respect. Can be operated with one or two men. One horse and two men will do the work of six men.

It is the easiest operated, works the best, sells the best and has more improvements than any other Harvester on the market.

Old and young can use the harvester alike, requiring little or no experience, and the only attention necessary is to **keep the knives sharp.**

THE GUARD RAIL

is thoroughly braced and forms a *safe rest and substantial support* for the operators, It steadies them while the Harvester is in motion; prevents falling off if suddenly stopped, or if on rough ground, and enables them to stoop down and pick up down corn within a few inches of the ground.

THE CARRYING WHEEL

Is provided with a ratchet and is readily adjusted to any desirable height. The Harvester can readily be used with or without the wheel as desired. The knives are of the best quality of steel and thoroughly tempered, and will carry an edge and stand right up to the work.

It Costs From \$1.25 To \$2 Per Acre To Cut Corn The Old Way.

With the Daisy it can be done at 25 to 40 cents, saving over \$1 per acre. The Daisy will pay for itself every year in cutting 25 or 30 acres. It leaves the field in better condition for seeding, the stubbles being cut short and even. The stalks being cut square off, the shock stands up better, does not sink into the ground, and saves time and labor in feeding. **YOU CAN CUT YOUR OWN CORN AND THEN CUT YOUR NEIGHBOR'S, AND MAKE ENOUGH MONEY TO PAY FOR YOUR HARVESTER THE FIRST YEAR.**

INDEX.

Adjustable Dividers,	49	Grain Tosser,	49
Adjustable Reel,	49	Grape Hoe,	33
Aerator,	38	Grates, Cellar,	80
Automatic Sheaf Discharger,	50	Grinders,	83
Bag Truck,	45	Harness, Steel,	22
Belting,	66	Harrows,	8—11, 71
Bicycle,	35	Hay Loaders,	9, 11, 36, 37
Binders,	4, 5	Hay Press,	19
Boilers,	24, 27, 28, 30	Hay Rakes,	58, 59
Bone Mills,	62, 63	Hay Tedders,	58
Bottle Washers,	51	Hay Tools,	42, 43, 52, 81, 82
Braces, Lightning,	24	Head Pipe,	32
Breeds Universal Weeder,	15	Heater, Steam,	29
Butter Churns,	43	Hiller, Celery,	14
Butter scales,	43	Hoe, Grape,	33
Butter Tub Fastener,	39	Hoisting Crane,	33
Celery Hiller,	14	Hook, Manure,	64
Celery Coverer, Planet Jr.,	14	Hook Plates,	29
Cellar Grates,	80	Horse Powers,	53
Champion Force Pumps,	29	Horse Power Jacks,	54
Champion Wagons,	23	Hose Coupler,	27
Cider Press,	63	Ice Plows,	36
Cob Crusher,	38	Indicators, Speed,	31
Corn Husker and Fodder Cutter,	7	Injectors,	22, 28
Corn Planter,	7, 75, 76	Jack, Horse Power,	54
Corn Sheller,	60	Jack, Universal,	50
Crane Hoist,	41	Jack, Wagon,	64
Cultivators,	11, 12, 13, 45, 76, 77	Land Roller,	18, 71
Cultivator Points,	78, 79	Lawn Mowers,	34, 42
Cutter, Feed,	20, 61	Lightning Brace,	24
Cutter, Potatoe,	75	Machine, Drilling,	64
Digger Potato,	17, 33	Machine, Washing,	43, 65
Divider Adjustable,	49	Manure Hook,	64
Drier Fruit,	33	Manure Spreader,	66
Drilling Machine,	64	Marker and Furrower,	33
Drills, Grain,	18, 44, 72	Milk Strainer and Aerators,	38
Driving Device, Frictional,	46—49	Mill, Bone,	62, 63
Ejectors,	27	Mill, Fanning,	82
Engines,	22, 23, 25, 26, 27, 28	Mower,	6
Fan Governors,	30	Mower, Lawn,	34, 42
Fanning Mills,	82	Nozzle, Spray,	32
Feed Cutters,	20, 61	Perfection Grates,	31
Fittings, Pipe,	28, 32	Pipe Fittings,	28, 32
Fodder Cutter and Corn Husker,	7	Pipe Heads,	32
Forges,	63	Pipe Tools,	25, 26
Frictional Driving Device,	46—49	Planet Jr., Coverers,	14
Fruit Drier,	33	Plows,	17, 69, 70
Furrower and Marker,	33	Point, Cultivator,	18, 79
Garden Tools,	15—16	Potato Cutter,	75
Gates, Perfection,	31	Potato Digger,	17, 33
Grain Drills,	18, 44, 72	Potato Planter,	73, 74
Grain Separators,	54, 57	Press, Cider,	63
Grain Sieve,	48		

Pulleys,	26, 27, 32
Pumps,	18, 26, 31, 38
Rakes, Hay,	58, 59
Road Carts,	67, 68
Scales, Butter,	43
Scales, Salt,	39
Scrapers,	21, 39
Separators, Grain,	54, 57
Sieve, Grain,	48
Speed Governor,	37
Speed Indicator,	31
Speidels Crane,	41
" Folding Derrick,	41
" Overhead Tramway,	41, 42
" Stationary Frame,	41
" Tramway,	40
Spray Nozzle,	32
Spray Outfit,	34
Spreader, Manure,	66
Steam Heater,	29
Steel Harness,	22
Steel Sink,	37

Stock Waterer,	39
Stump Puller,	40
Tedders,	58
Thermometer,	45
Tools, Garden,	15, 16
" Hay,	42, 43, 52, 81, 82
Tosser, Grain,	49
Tricycle,	42
Truck Bag,	45
Twine Governor,	50
Universal Jack,	50
Valves,	24, 25, 31, 32
Vise,	27
Wagon, Champion,	2, 3
" Country Road,	3
" Jack,	64
Washer, Bottle,	51
Washing Machine,	43, 65
Water Wheel,	45
Wheelbarrow,	69
Windmill Tower,	52
Wrench,	23, 38

1893.

1894.

ILLUSTRATED CATALOGUE

— No. 2 —

In the following pages are shown cuts with brief descriptions of Implements,
not shown in our First Illustrated Catalogue.

For prices and further particulars, address

J. BACHMAN,

Manufacturers' Agent and Dealer in the Most Approved

Agricultural Machinery and Supplies,

CREAMERY APPARATUS AND DAIRY FIXTURES,

Belting, Pipe and Fittings, Boilers, Engines, &c.

LATEST PATENTS,

LOWEST PRICES,

LARGE ASSORTMENT.

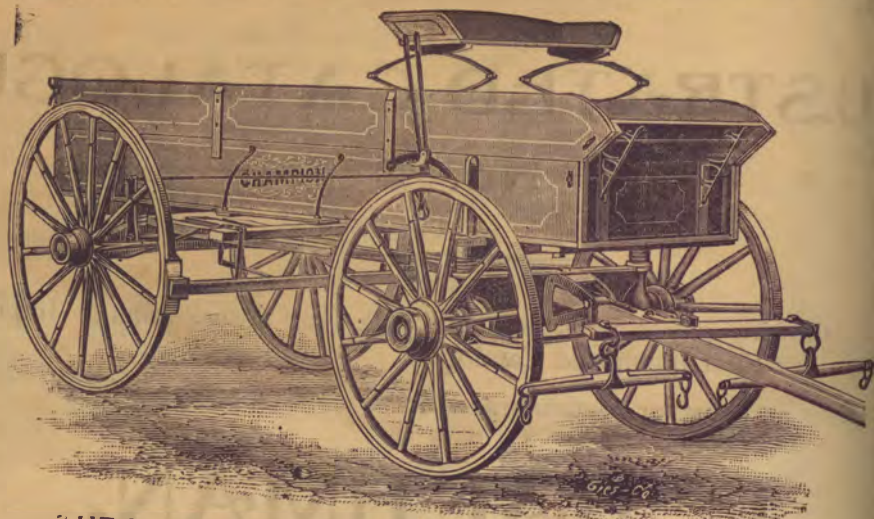
Examine our fresh-selected stock before purchasing, or write for special circulars, prices and discounts.

STONY RUN, PA.

Telephone and Telegraph } KEMPTON, PA.
Communication;

FARM IMPLEMENTS AND MACHINERY.

THE CHAMPION WAGON.



THE HORSE'S FRIEND! THE BEST IN THE MARKET!

Absolutely no whipping of the pole.

Adapted for any kind of work; on the level or on side hills, over smooth, rough or frozen roads; on the farm or in the woods.

Front Axle Arms Warranted for Three Years, and all Other Parts Except Seat Springs for One Year.

It will turn in a smaller space than any other wagon.

The load rests on the four corners, close to the wheels, instead of in the middle of the axle, thus increasing the strength of the wagon and evenly distributing the weight of the load.

It has springs under both bolsters, which add greatly to the life of the wagon.

It is not as liable to upset as other wagons. This feature makes it particularly desirable as a hay wagon.

+ PRICE LIST +

With Sizes of Wheels, Beds, Tire, Capacity, Etc.

SIZE OF SKEIN.	HEIGHT OF WHEELS.		LENGTH OF BEDS OUTSIDE.		WIDTH OF BEDS.		HEIGHT.		SIZE OF TIRE.	CARRYING CAPACITY.	WEIGHT.	PRICE.
	Front.	Hind.	Narrow Track.	Wide Track.	Narrow Track.	Wide Track.	Lower Side.	Top Side.				
2½ x 8	3 ft. 4 in.	4 ft.	9½ ft.	9½ ft.	3 ft. 2 in.	3 ft. 6 in.	10 in.	6	1½ x ¾	1500	800 (about)	\$70.00
2¾ x 8½	3 ft. 8 in.	4 ft. 5 in.	10½ ft.	10½ ft.	3 ft. 2 in.	3 ft. 6 in.	11 in.	8	1½ x ½	2200	900	73.00
3 x 9	3 ft. 8 in.	4 ft. 5 in.	10½ ft.	10½ ft.	3 ft. 2 in.	3 ft. 6 in.	12 in.	9	1½ x 9-16	3000	1000	75.00
3¼ x 10	3 ft. 8 in.	4 ft. 5 in.	11½ ft.	10¾ ft.	3 ft. 2 in.	3 ft. 6 in.	12 in.	9	1½ x 5/8	4000	1050	80.00
3½ x 11	3 ft. 8 in.	4 ft. 5 in.	12½ ft.	11½ ft.	3 ft. 2 in.	3 ft. 6 in.	14 in.	9	1¾ x ¾	5000	1100	85.00

The foregoing prices are for complete wagons, with Cast Iron Thimble Skeins on rear axle, which include Spring Seat, Neck Yoke, Double and Single Trees and Wrench, but no brake.

Steel Skeins of the most approved pattern furnished on rear axles, when desired, at an extra charge of \$4.00 per wagon.

Gear and Body Brake, extra, \$5.00.

Boot Boxes, \$2.00 extra. For boxes longer than above, add to price of wagon \$2.00 for each additional foot. Patent End Gate, extra \$1.00.

Shafts for one horse furnished in place of Pole, Whiffletrees, etc.

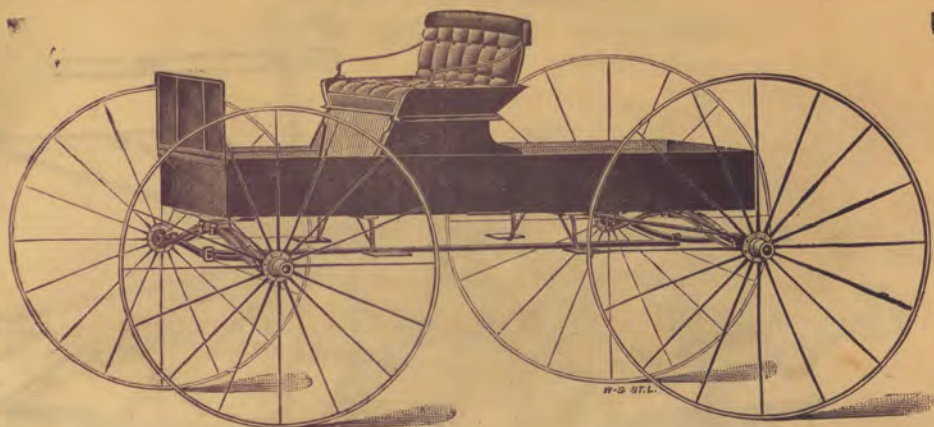
Add \$5.00 per inch for width of tire wanted over the regular size, and \$2.00 for each ¼ inch added to regular thickness.

Truck Wheels 3 ft. 4 in. and 3 ft. 8 in., furnished, when desired.

For Prices and Further Information call on or address J. BACHMAN, KEMPTON, PA.

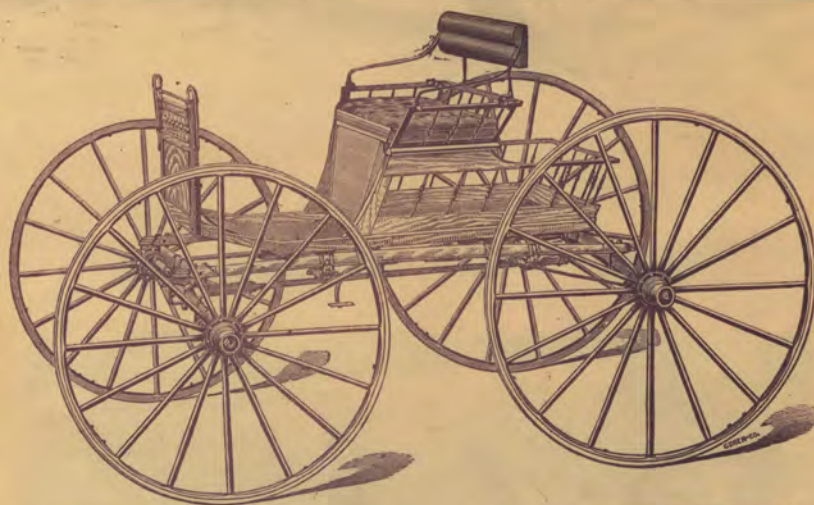
No. 14 MUGWUMP WAGON.

6 ft. Bed. Leather Trimmed.



No. 23 CHAMPION SIDE SPRING LIGHT DRIVING WAGON.

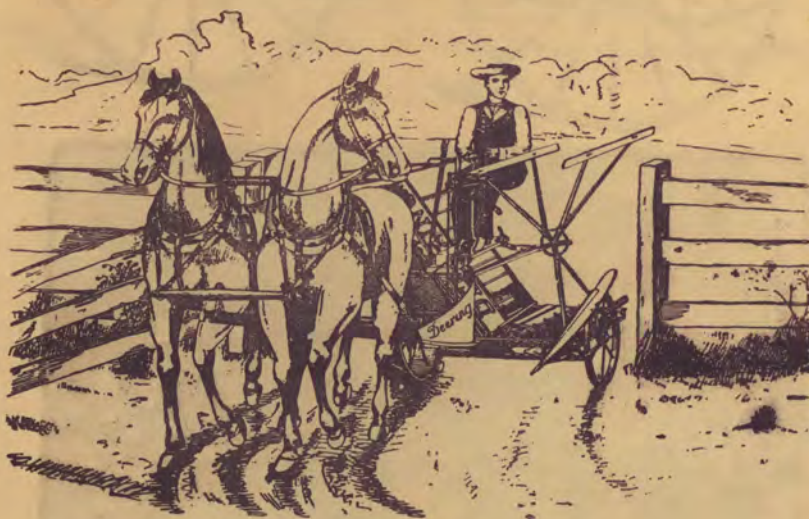
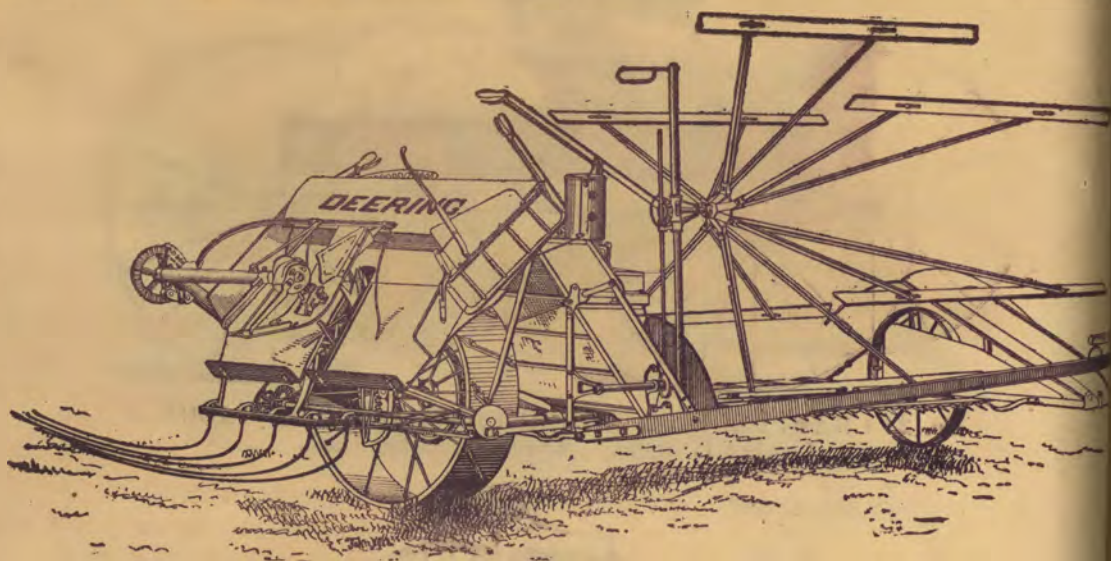
Leather Trimmed. Wood or Leather Dash.



For Prices and Further Information call on or address J. BACHMAN, KEMPTON, PA.

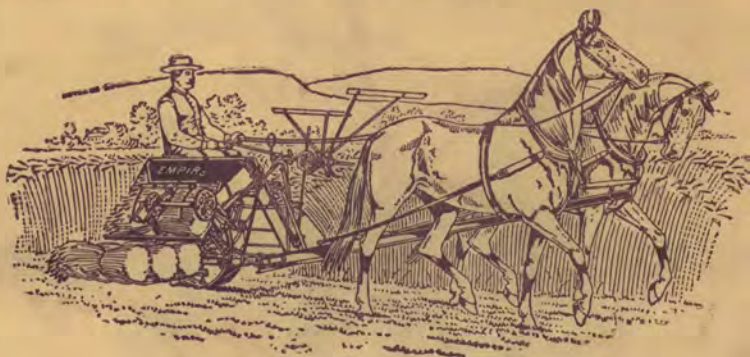
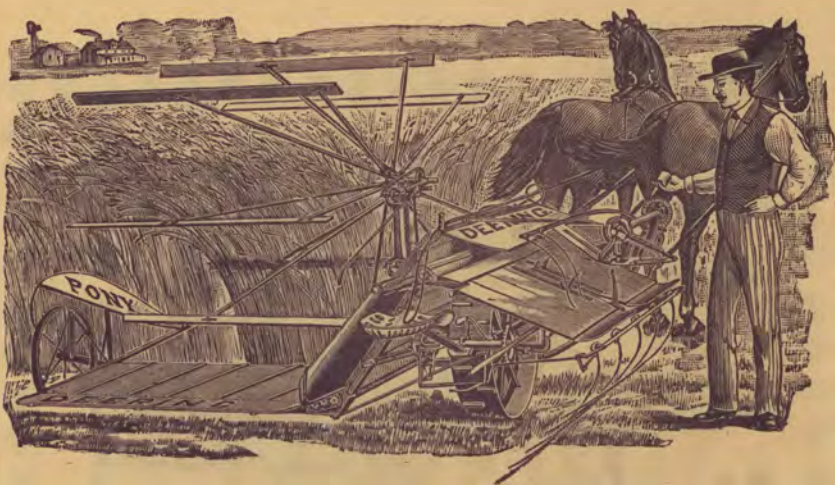
THE JUNIOR DEERING BINDER.

5, 6 AND 7 FOOT CUT.



This cut shows the Deering Binder with Jointed Platform passing through gates. When the platform is folded it will pass through a $9\frac{1}{2}$ foot gate and can be stored in a 7x9 corner. This device does away entirely with the truck.

For Prices and Further Information call on or address J. BACHMAN, KEMPTON, PA.

NEW EMPIRE BINDER.**THE DEERING PONY BINDER.**

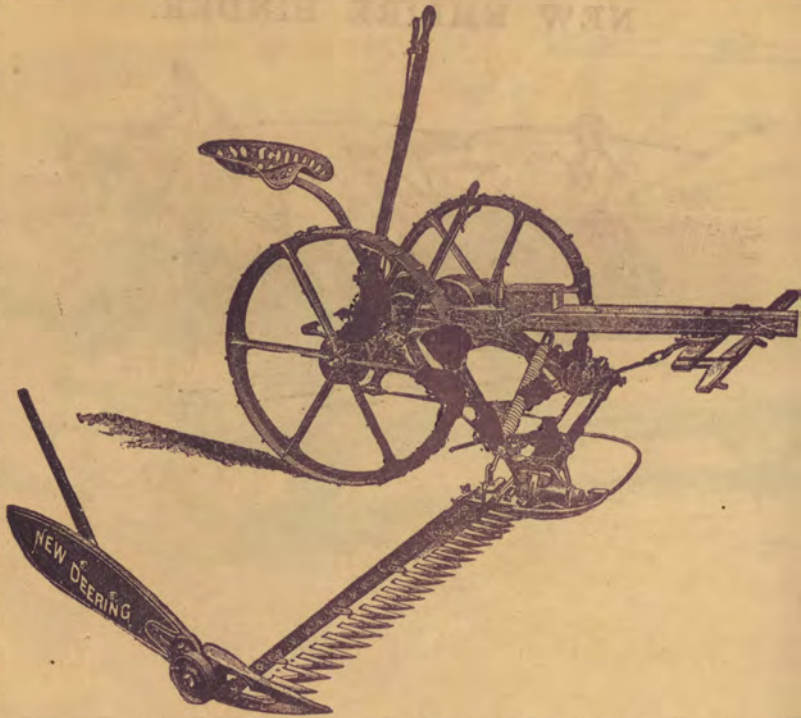
The New Empire and the Deering Pony Binder are attractive machines. They are built of steel and malleable, although strong, durable and perfect in their work.

There is no complicated machinery about these Binders, which render them able to perform their work without trouble. The former uses very little twine, which is a great saving to the farmer. These machines are light in weight.

For Prices and Further Information call on or address J. BACHMAN, KEMPTON, PA.

FARM IMPLEMENTS AND MACHINERY.

THE NEW DEERING MOWER,
With Foot Lift and Spring Attachment.



THE NEW EMPIRE MOWER,
With Foot Lift and Spring Attachment.



Examine these Mowers and convince yourself of their practical merits.

For Prices and Further Information call on or address J. BACHMAN, KEMPTON, PA.

TWO ROW, OR DOUBLE CORN PLANTER.

Can be Furnished in Various Styles.



**A
PERFECT
SUCCESS.**

"Keystone" Corn Husker

AND

Fodder Cutter.

Husks the corn and
cuts the stalks into
the best fodder
known.



MADE BY
KEYSTONE MFG. CO.
Sterling, Ill.

Get our **FREE** book,
"The Great Leak on the
Farm," from

Much Improved

Special Particulars, Circulars, etc. of this machine will be given, on application, to all parties interested about the same.

For Prices and Further Information call on or address J. BACHMAN, KEMPTON, PA.

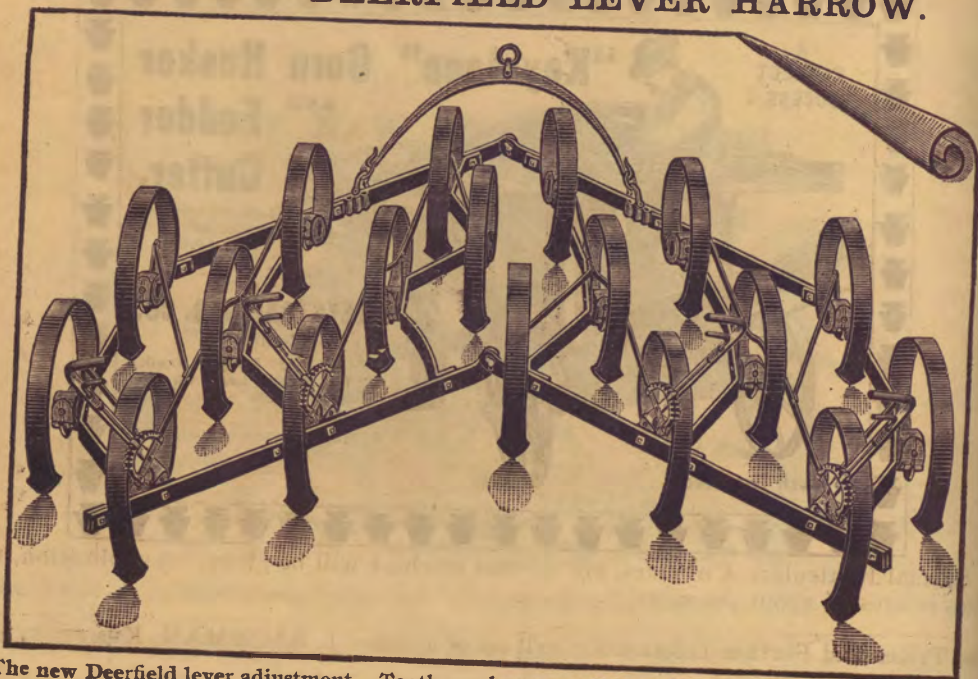


NEW MODEL DEERFIELD HARROW.



The New Model Deerfield can be set to run from one to eight inches deep. Each bar of the frame is made bracing-shape, and each one forms a brace to the other. Having no cross bars in the center, it is impossible to clog the frame. The Deerfield is the only Harrow that can be converted into a high or low frame—the only one on which the teeth project below the frame, thus preventing the frame from clogging and catching on obstructions. Teeth can be worn off the entire length. The illustrated cut of the single tooth fully explaining the manner in which the tooth can be **entirely worn out**, by simply changing the bolt from one hole to the next hole in the hub, which changes the pitch of the tooth forward or backward until the entire circle of the hub is used. The cut also shows the different positions of the tooth as it wears away and is turned around on the hub. The Deerfield is the only adjustable Harrow that makes a **positive change** and places the points of the teeth all on a line, which is difficult to do with other Spring Tooth Harrows in the field. Each tooth is protected from wear by a shoe, which has a sharp center for breaking clods and pulverizing the surface.

THE NEW DEERFIELD LEVER HARROW.

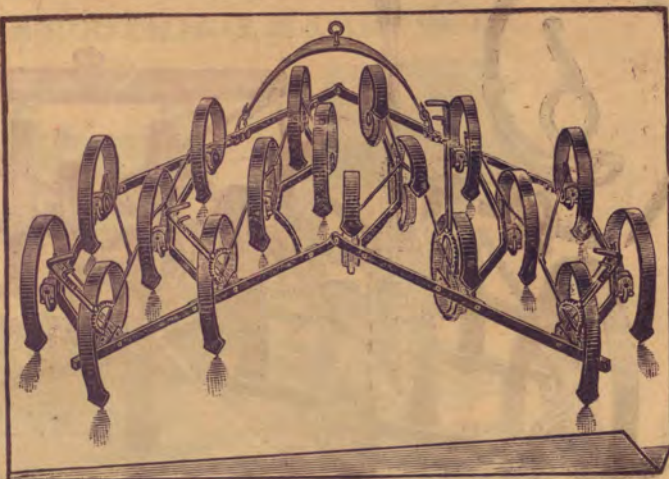


The new Deerfield lever adjustment. Tooth can be worn off its entire length. Nothing like it.

NEW DEERFIELD LEVER HARROW.

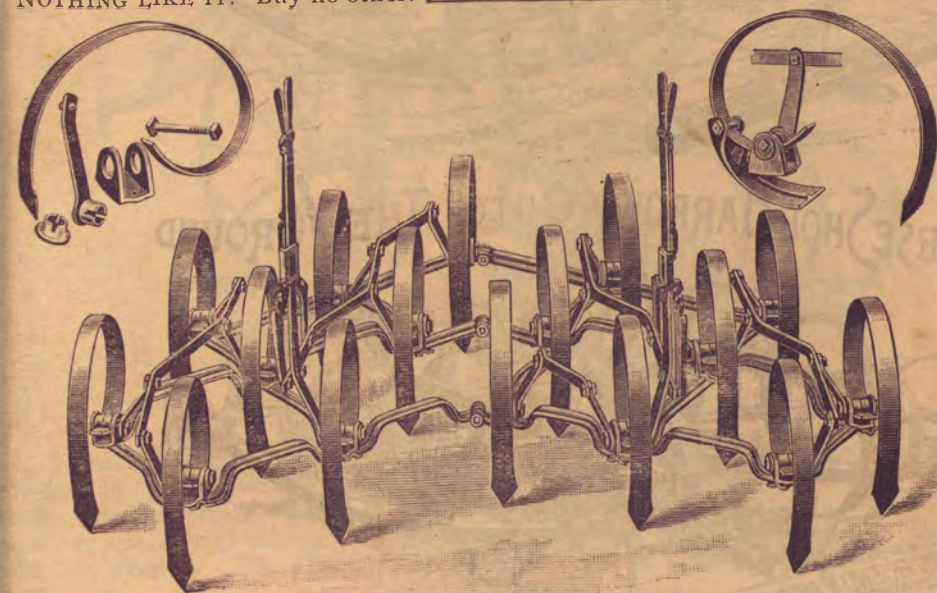
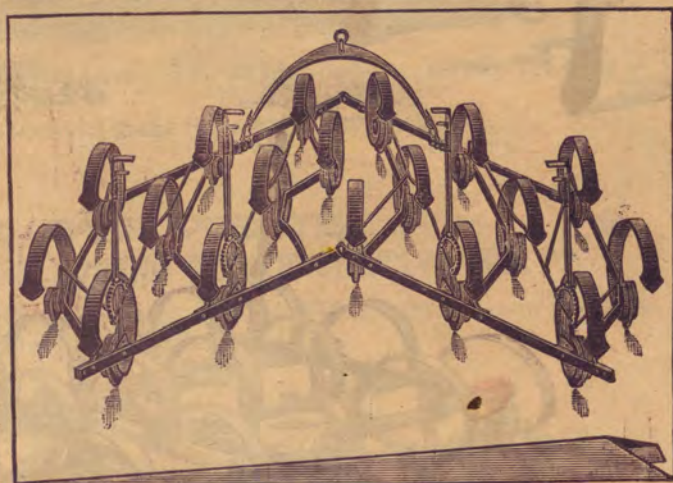
One Section Raised.

Any of the four sections may be raised to let out rubbish or to pass over obstructions, without raising one-half of the frame, or may be set deeper to level ridges or fill in dead furrows. By detaching the two outside teeth of the 18-Tooth Harrow the 16-Tooth Harrow is formed, and vice versa, which is a great convenience to the farmer.



NEW DEERFIELD LEVER HARROW.

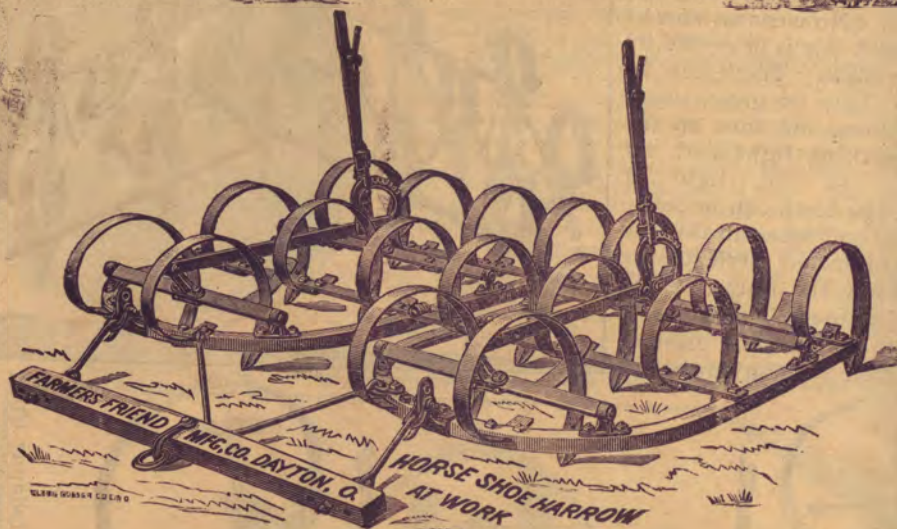
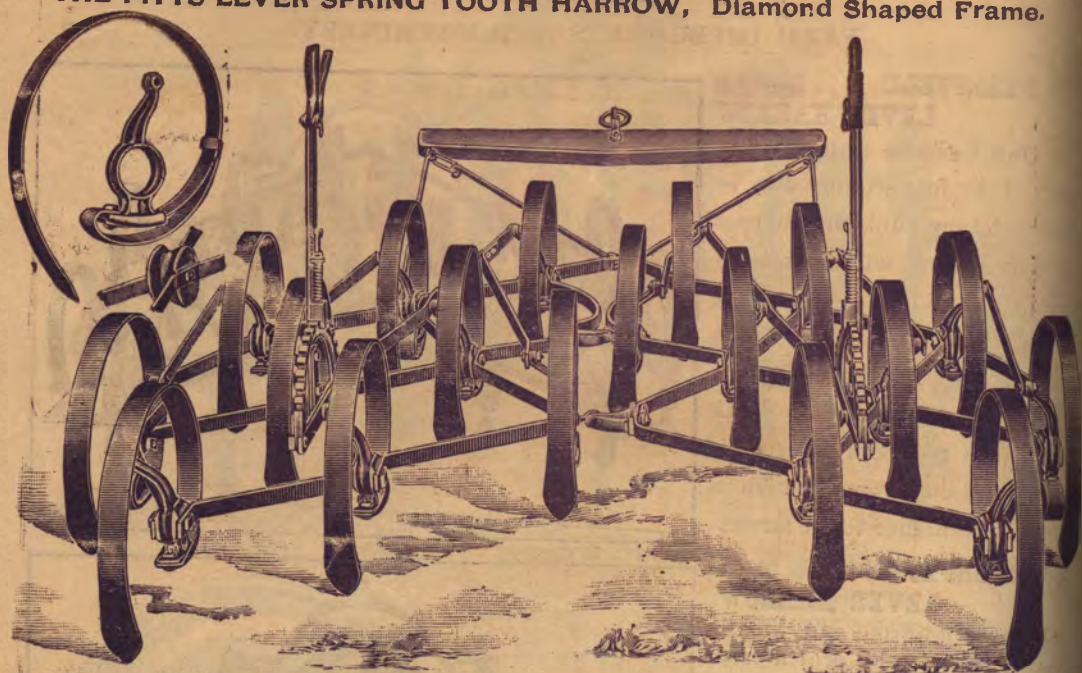
All teeth adjusted out of the ground, ready to be drawn from field to field. No wear on bow of Tooth, as each one is protected by our Coulter Shoe. Teeth can be set to run light on green-sward and by so doing not turn up the sods, thus making light work for the team. In soft, light or sandy soil, the teeth can be set to cut shallow, and when in this position the protected circle of the Tooth is below the frame, which makes it absolutely impossible for the frame to drag on the ground. NOTHING LIKE IT. Buy no other.



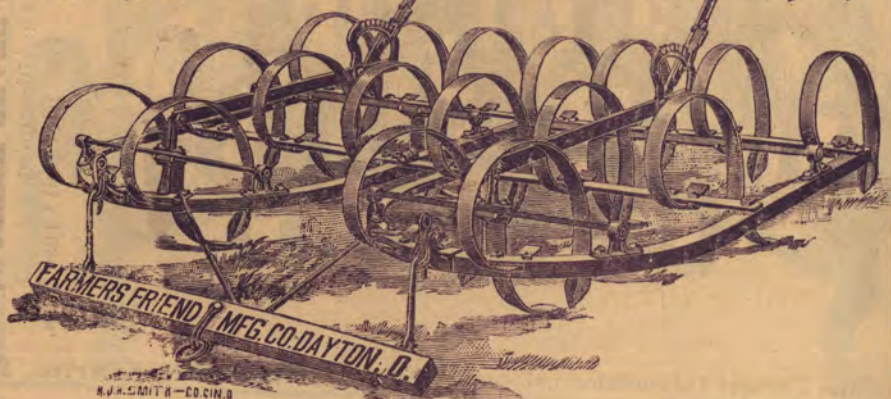
THE STEVENS LEVER HARROW,
With Independent Tooth Adjustment.
Has Elevated Cross Bars.

For Prices and Further Information call on or address J. BACHMAN, KEMPTON, PA.

THE PITTS LEVER SPRING TOOTH HARROW, Diamond Shaped Frame.



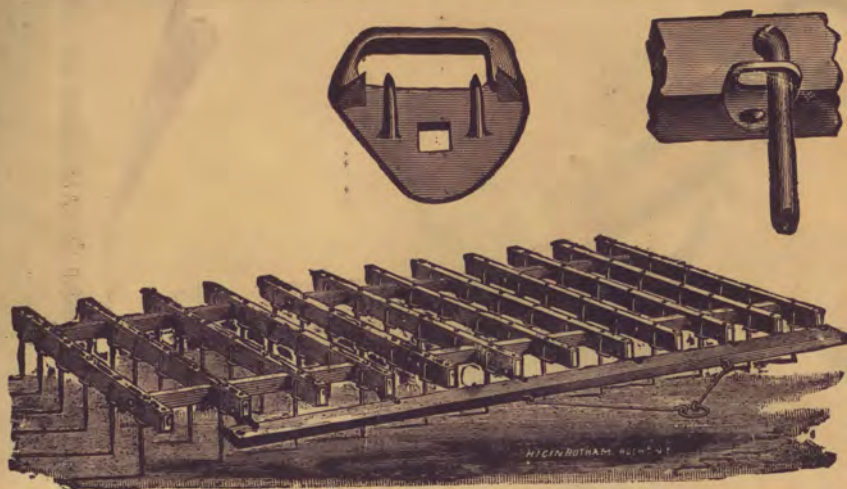
HORSE SHOE HARROW / OUT OF THE / GROUND



FARMERS FRIEND / MFG. CO. DAYTON, O.

H. J. SMITH - CO. CIN. O.

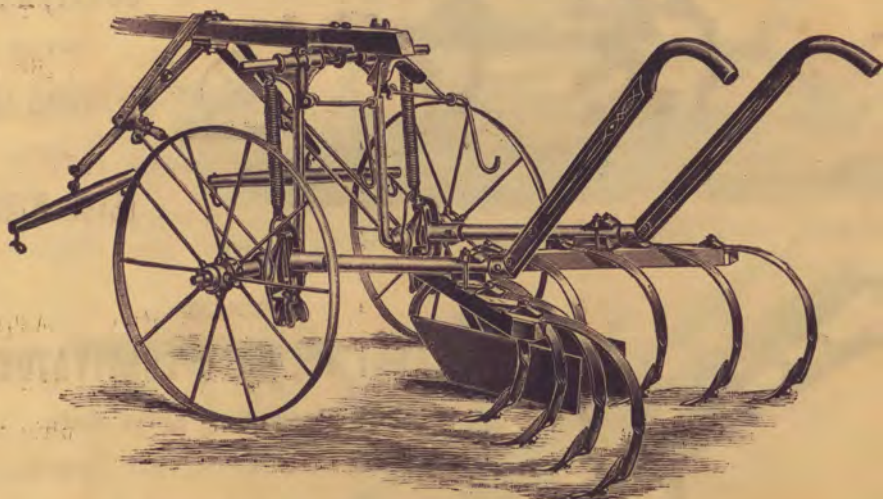
THE THOMAS SMOOTHING HARROW.



By drawing this Harrow one way you have a Smoothing Harrow, and by drawing it the other way you have a Scotch Harrow.
Each section has 24 teeth and 3 sections make the regular size for a team.

THE STEVENS IMPROVED WALKING SPRING TOOTH CULTIVATOR.

Provided with our Patent Twisted Shank, Special Pointed Teeth, which scour perfectly and cannot clag in sticky soil.



This cut does not show the Latest Improvements of this machine.

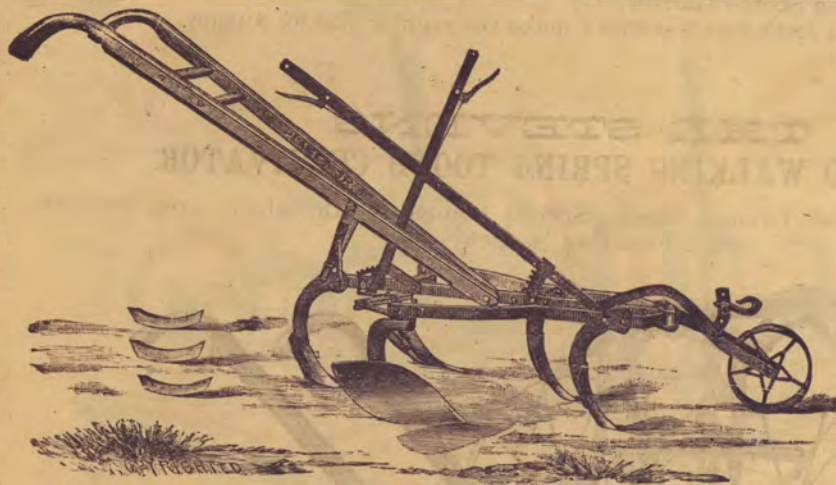
Especially adapted to Surface Cultivation; turns no furrows, but thoroughly pulverizes the ground, leaving it level and mellow. Throws weeds to the surface, where sun kills them. Best material only used. Handles adjustable to height of operator. Springs for assisting operator in raising Gangs. Automatic Gang Supporting Hooks. Hill protectors and Dirt Fenders. The INCREASE OF CROPS in one season will more than pay for the tool.

For Prices and Further Information call on or address J. BACHMAN, KEMPTON, PA.



The New Deerfield Double Lever Cultivator for 1893

AS Steel Shanks and a rigid Lock Lever for changing width, and no loose joints. The wheel and rear tooth adjustment for transporting Cultivator from field to field without raising it up or lowering it on a wagon, will be appreciated by farmers. It can be lowered in the ground to any depth required, by moving lever forward and is the only one that raises both ends of Cultivator at the same time. The tines are small, which is very necessary in soft ground where the plants



**THE
PLANET, Jr.**

No. 6

ALL STEEL

CULTIVATOR,

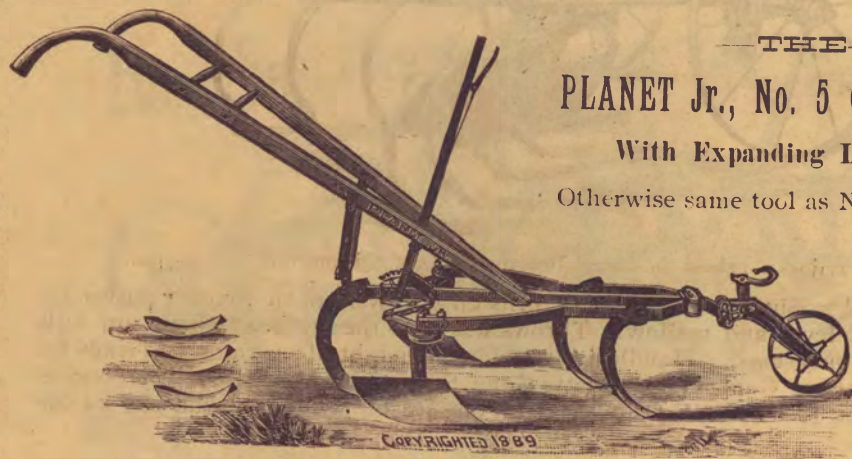
WITH

EXPANDING LEVER

—AND—

LEVER WHEEL.

This tool with various attachments, can be used for a great many other purposes.



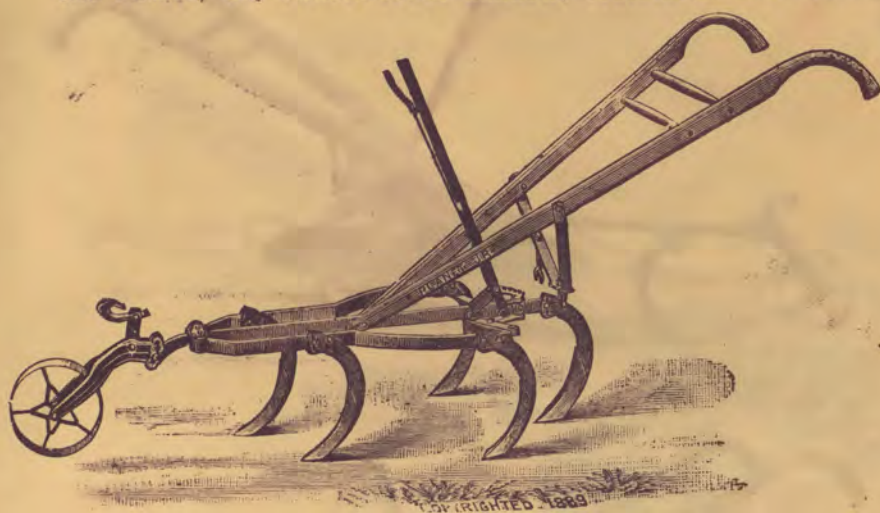
**—THE—
PLANET Jr., No. 5 CULTIVATOR,**

With Expanding Lever Only.

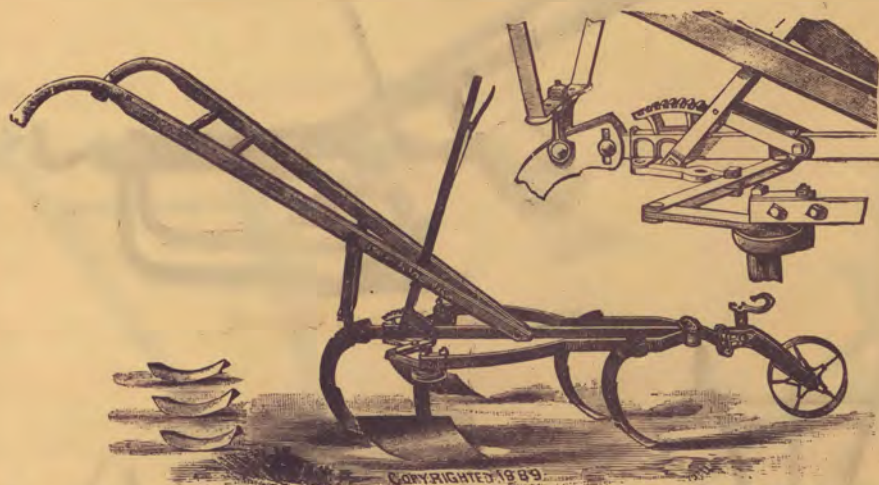
Otherwise same tool as No. 6 Cultivator.

For Prices and Further Information call on or address J. BACHMAN, KEMPTON, PA.

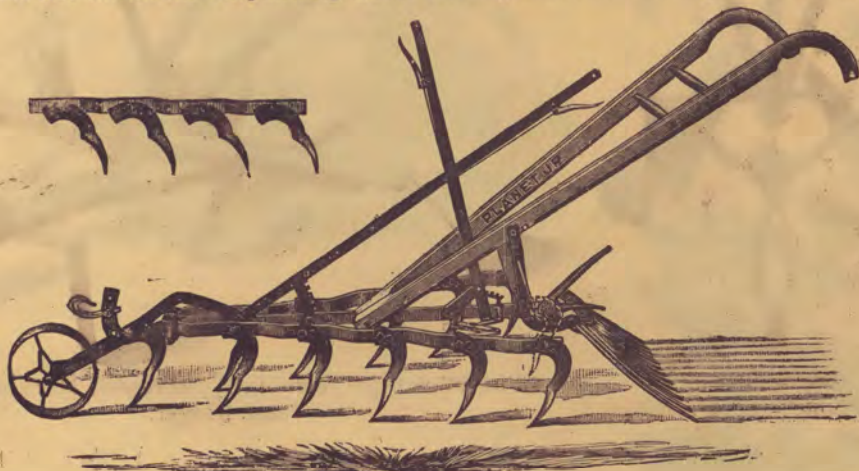
THE PLANET, JR., TWELVE-TOOTH HARROW, CULTIVATOR AND PULVERIZER.



This tool has many and varied uses. Teeth can be worn off three inches before renewing.

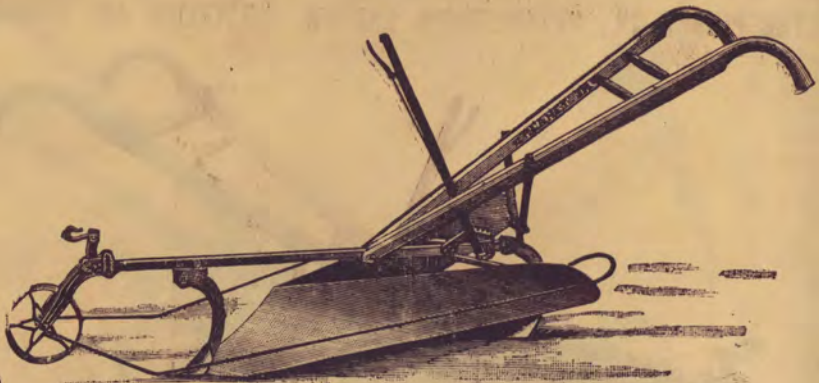


This cut shows the Expanding Lever Arrangement at Planet Jr. Cultivators.

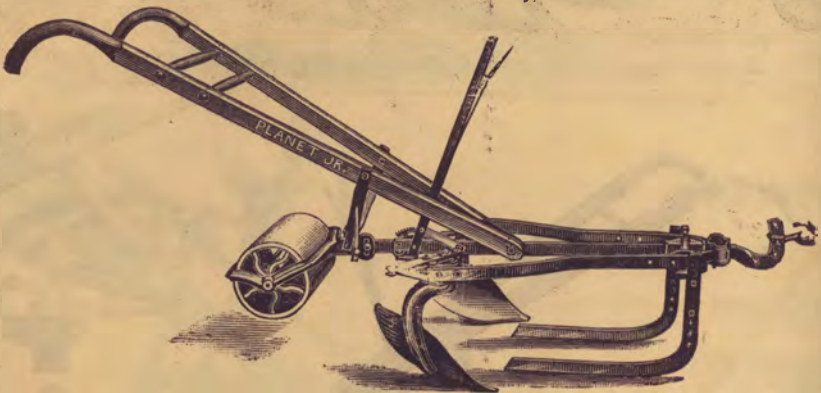


THE PLANET, JR. AS A PLAIN CULTIVATOR.

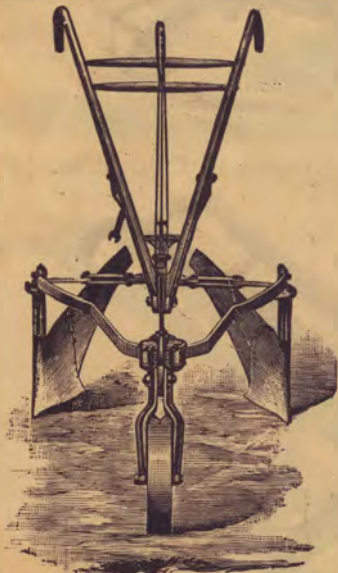
For Prices and Further Information call on or address J. BACHMAN, KEMPTON, PA.



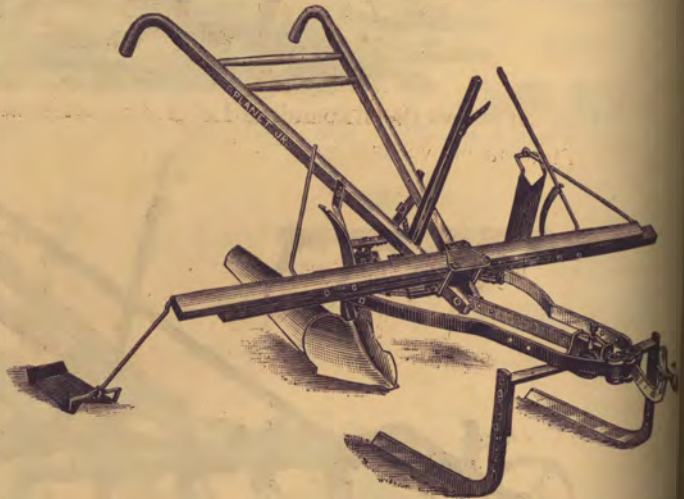
Copyrighted 1889
The Planet, Jr., as a Celery Hiller.



The Planet, Jr., as a Coverer.



The Planet, J., Furrower,
Ridger, &c — Making
up Beds.

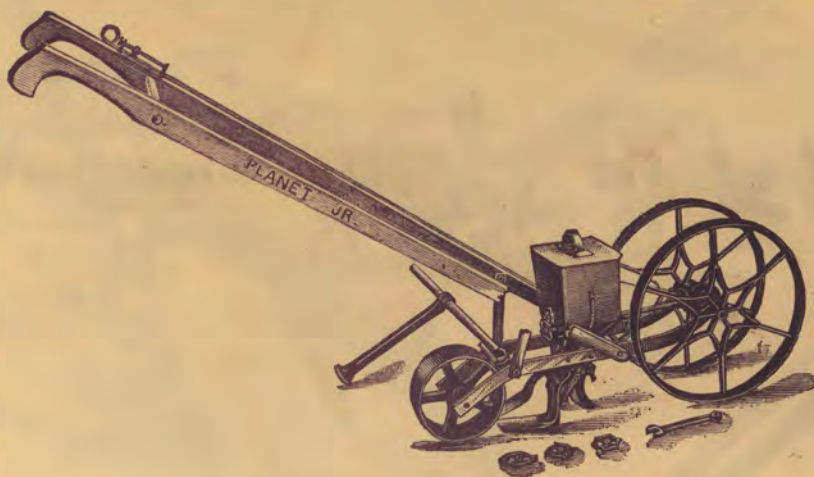


The Planet, Jr., combined Furrower, Marker, Hiller
and Ridger.

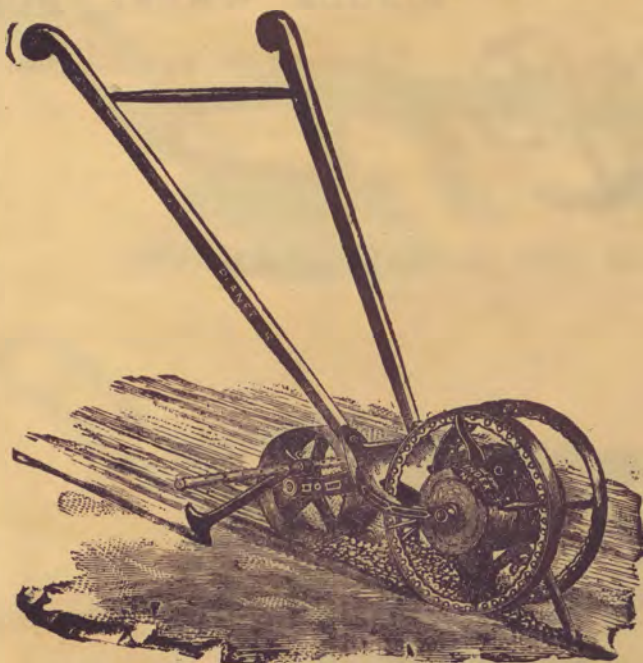
For Prices and Further Information call on or address J. BACHMAN, KEMPTON, PA.

THE PLANET, Jr. GARDEN DRILL, FOR ROWS OR HILLS.

This machine sows any kind of garden seeds.



THE PLANET, Jr. GARDEN DRILL, No. 2.



These Garden Drills have all the adjustments for planting any depth and any kind of seed.

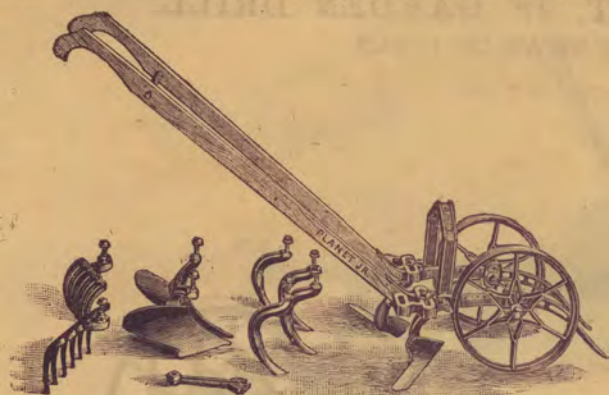


Planet Jr. Drill, No. 2, with Hoeing Attachments.

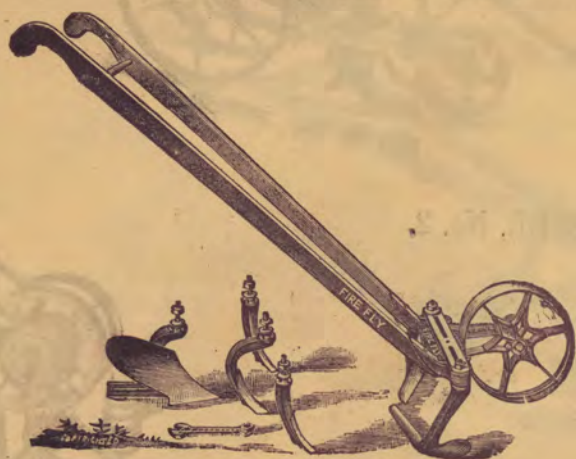
Breed's Universal Weeder.



For Prices and Further Information call on or address J. BACHMAN, KEMPTON, PA.

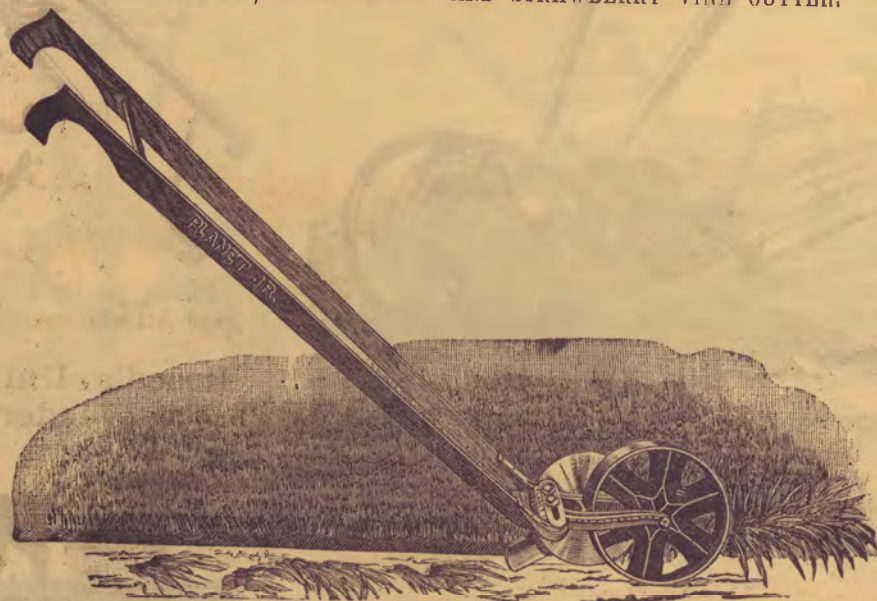


THE
Planet, Jr.,
 Double Wheel Hoe, Cultivator,
 Rake and Plows Combined.



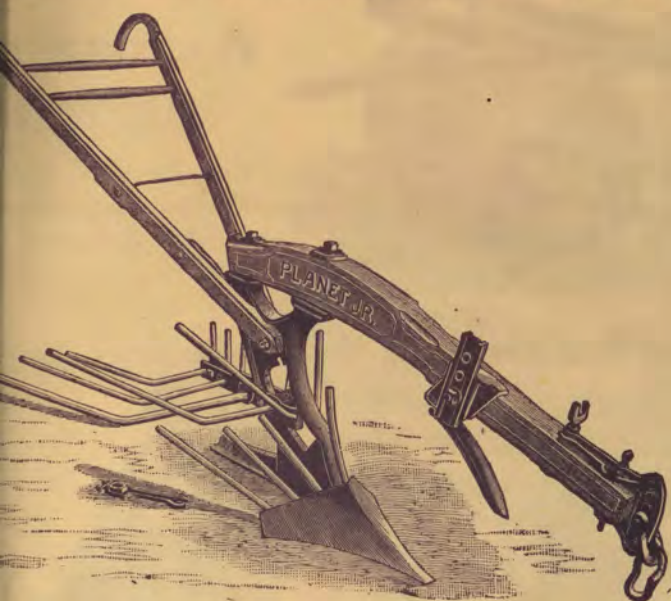
—THE—
PLANET, JR.,
SINGLE WHEEL HOE,
 With Cultivator, Rake and Plows
 Combined.

THE PLANET JR., GRASS EDGER AND STRAWBERRY VINE CUTTER.



By removing the disc the Hoe alone can be used to advantage.

For Prices and Further Information call on or address J. BACHMAN, KEMPTON, PA.



IRISH POTATO DIGGER.

A Vine Turner is used when tops are still green and ground weedy.



THE BISSELL PLOW,

With Separate Shin Piece. Runs steady.

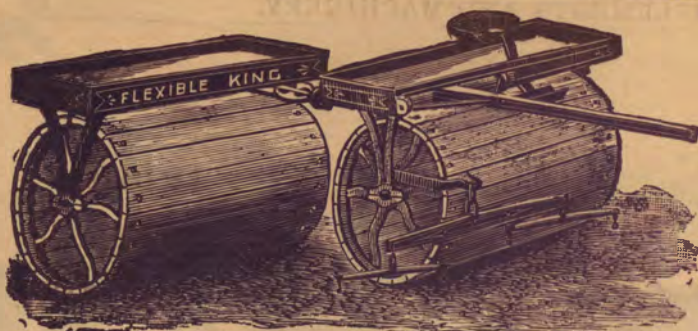


SYRACUSE WOOD BEAM PLOW.

Separate Shin Piece.



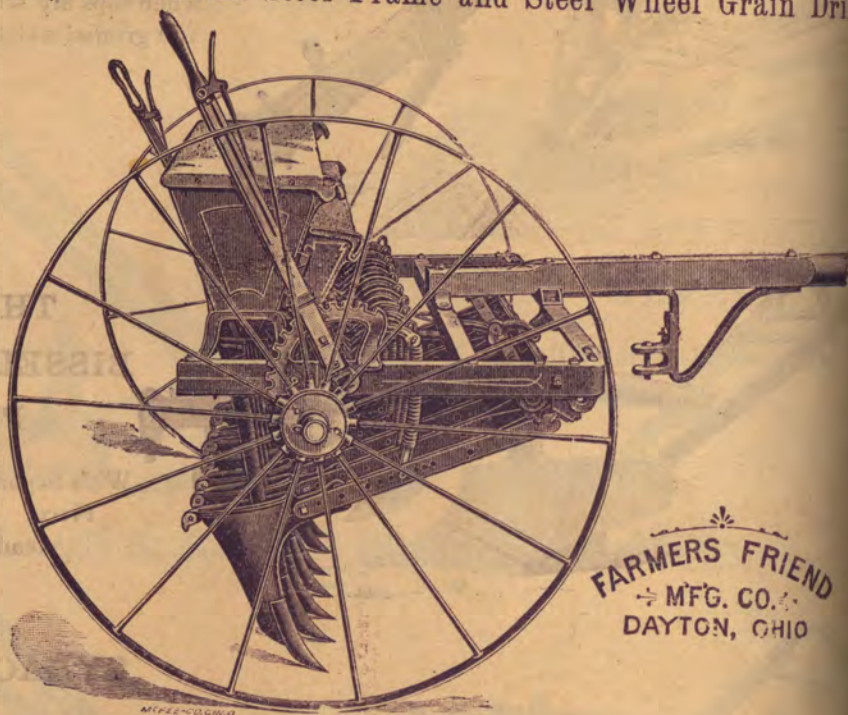
See on application.



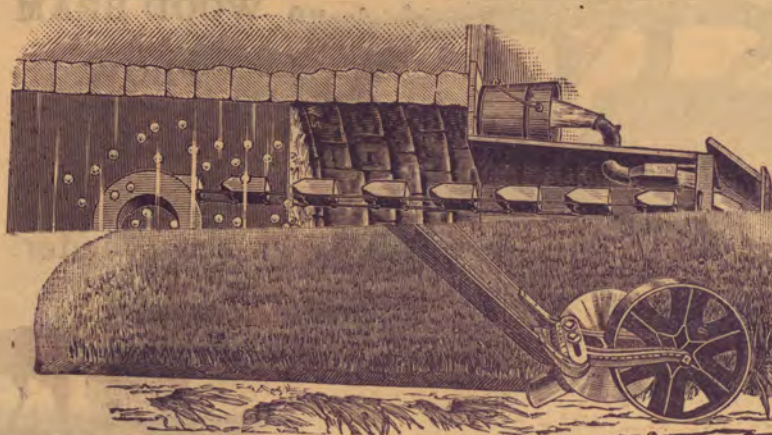
FLEXIBLE KING LAND ROLLER.

Takes a sweep of 8 ft.
covers the entire surface
over ridges and in dead

Farmers' Friend Steel Frame and Steel Wheel Grain Drill.



FARMERS' FRIEND
MFG. CO.
DAYTON, OHIO



BUCKET PUMP

By removing the disc the Hoe alone can be used to advantage.

For Prices and Further Information call on or address J. BACHMAN, KEMPTON, PA.

BECK STEEL HAY LOADER,
WITH WIND SLATS.

Do

WITH WIND SLATS.

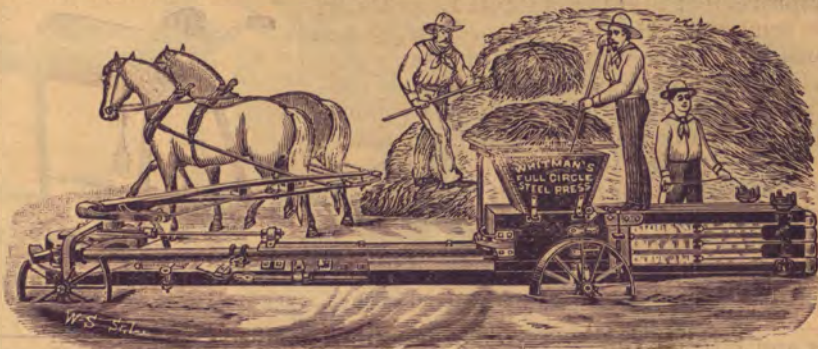


The Ertel VICTOR

AUTOMATIC FOLDER,



Double-Acting Perpetual Hay and Straw Press.



Special Circulars and Particulars given on application.

THE TORNADO

Prepares Dry Forage and Ensilage in a manner that is superior to any other machine of its class.

It is the only PERFECT STALK CUTTING and SPLITTING machine in the market. No extra splitting attachments needed for splitting Corn Stalks.

When the stalks have passed through the TORNADO, their condition is vastly improved, every pound of which is left in a perfectly soft, pulpy condition, free from all hard woody parts with sharp edges, which are hurtful to the mouths and impair the vigor of the animal.

The stalks are put into the very best possible condition for mastication and assimilation and will be eaten up clean.

We guarantee that the fodder passed

through the TORNADO CUTTER will not cause the gums of the animal to become

It is the only cutter that is absolutely safe to run at a high rate of speed. The cut continuously, thus avoiding all jar or strain in the machine. The Fly Wheel Cylinder are perfectly balanced.



DEERFIELD BALANCE LEVER CUTTER.

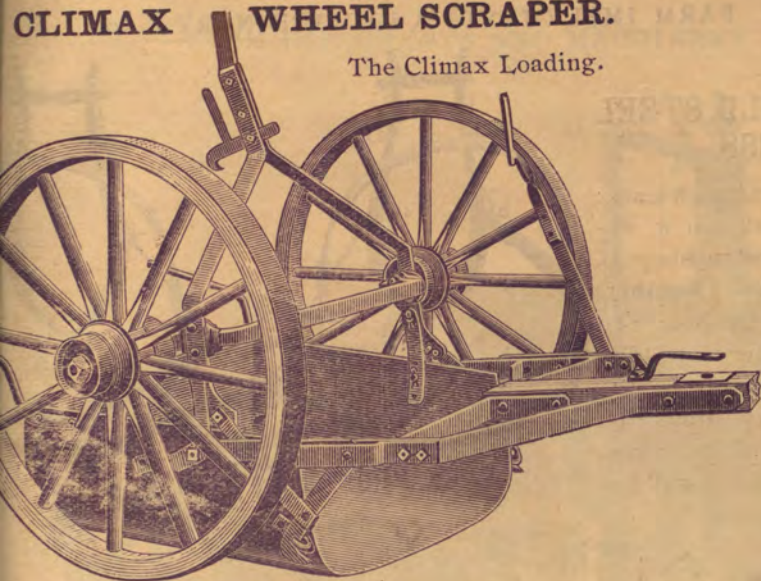
A great improvement over the old style Lever Cutters. The weight being attached to opposite side of hand lever as shown in cut, the balance has the same power over the knife that a balance wheel has on a rotary Cutter, the knife being forced up and down by momentum of balance, actually making a power machine requiring but very little labor to operate. The throat being of large capacity, feed can be cut rapidly and of any desired length, which is regulated by a gauge that can be changed in a moment. Our adjustment for regulating knife is far superior to anything heretofore used. The frame is of hard wood and the entire machine gotten up in the most workmanlike style.



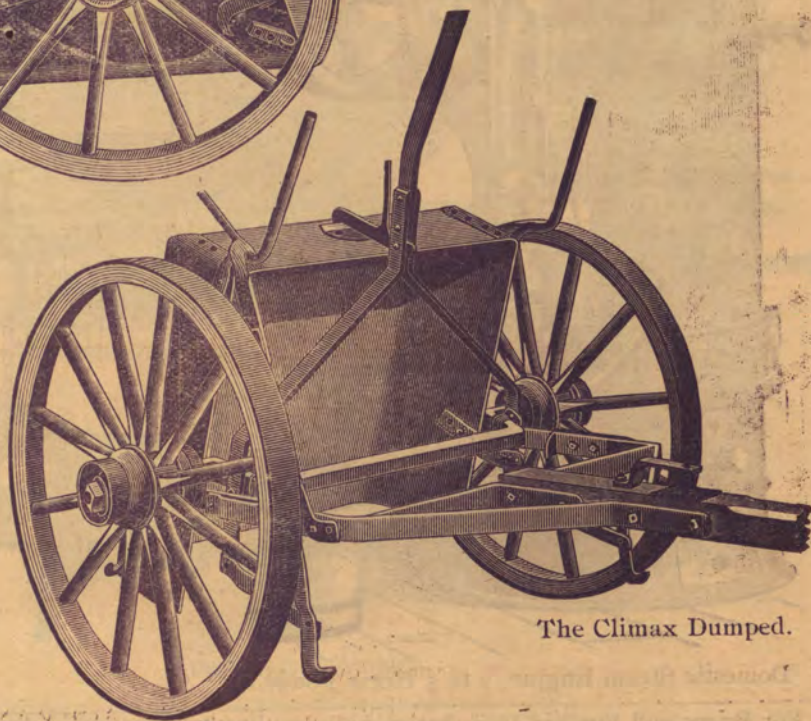
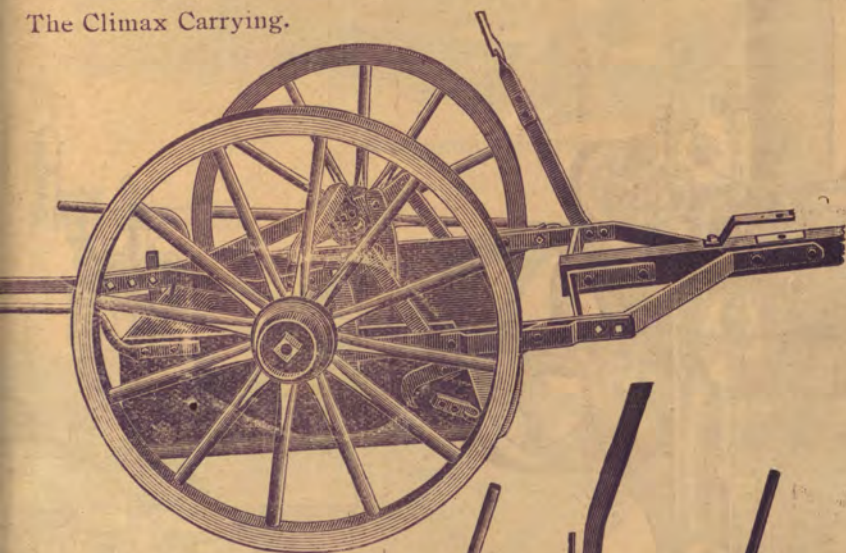
For Prices and Further Information call on or address J. BACHMAN, Kempton

CLIMAX WHEEL SCRAPER.

The Climax Loading.



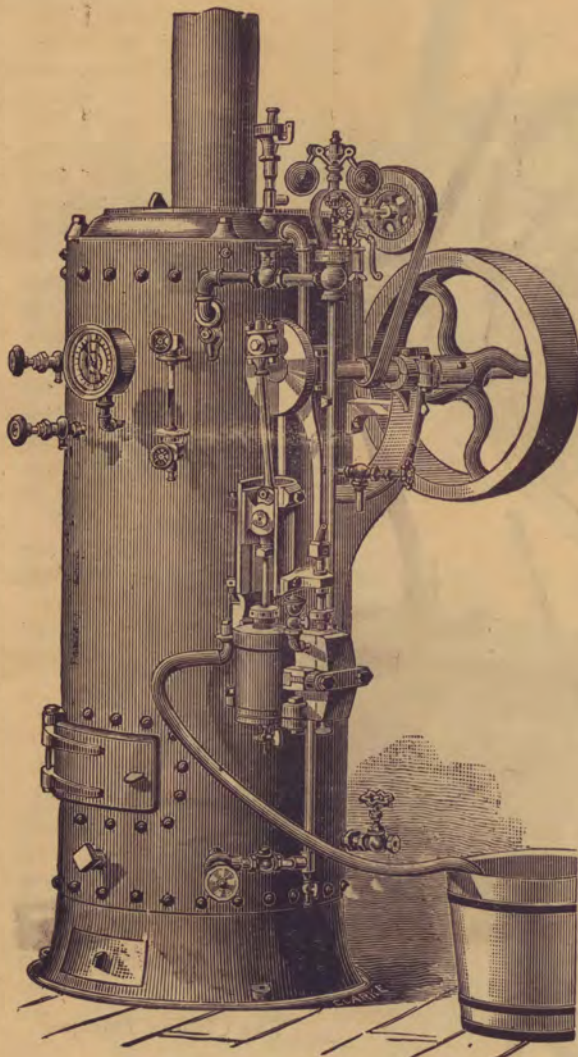
The Climax Carrying.



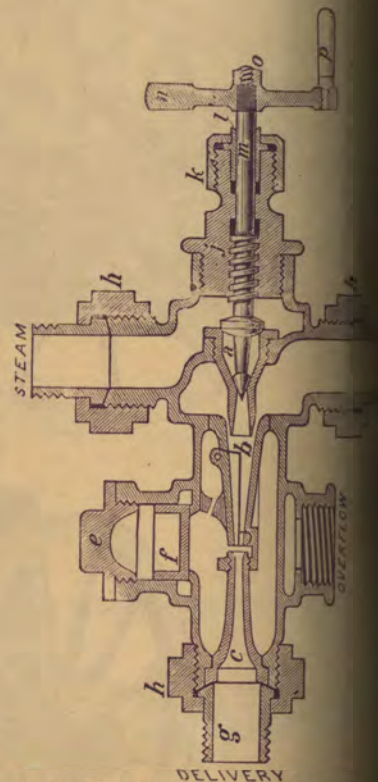
The Climax Dumped.

THE DEERFIELD STEEL HARNESS.

To uncouple and unhitch team :
First unhook F, pull pin E, unhook B, pull key D, unshap C.
To work team close together, move clevis A into next hole. To make one horse draw more than the other, move clevis G to next hole. H is the lazy strap, and prevents any part of steel from coming against horses or galling.

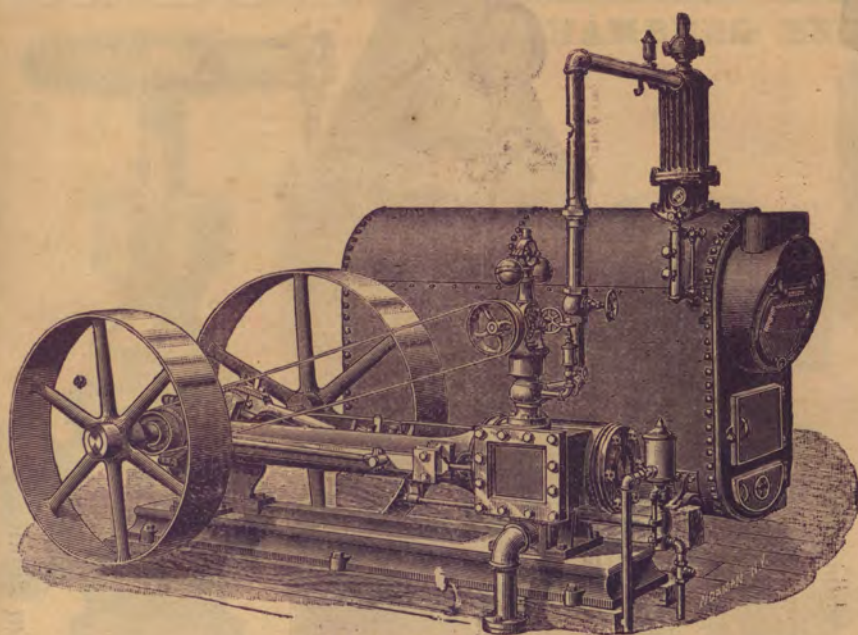


Domestic Steam Engine, 2 to 5 Horse Power.

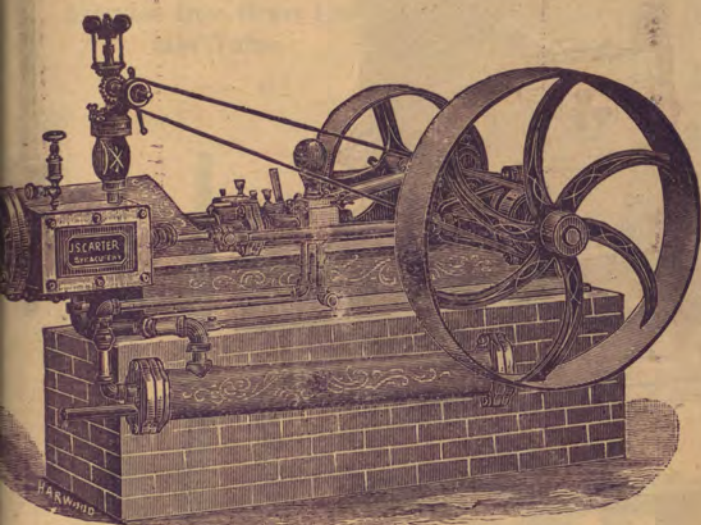


Sectional View of Peerless Injector

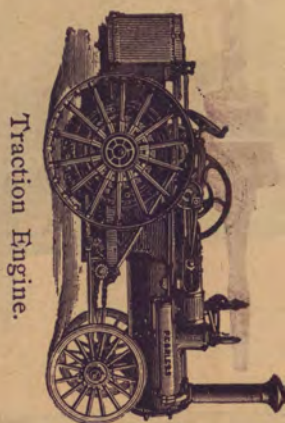
For Prices and Further Information call on or address J. BACHMAN, KEMPTON, ILL.



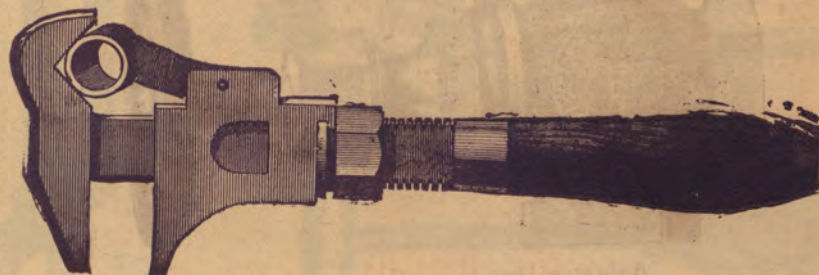
Horizontal Engine.



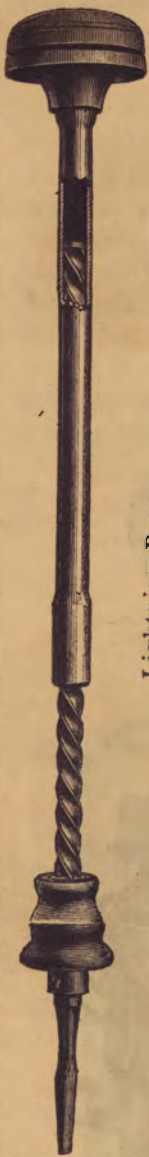
Horizontal Engine.



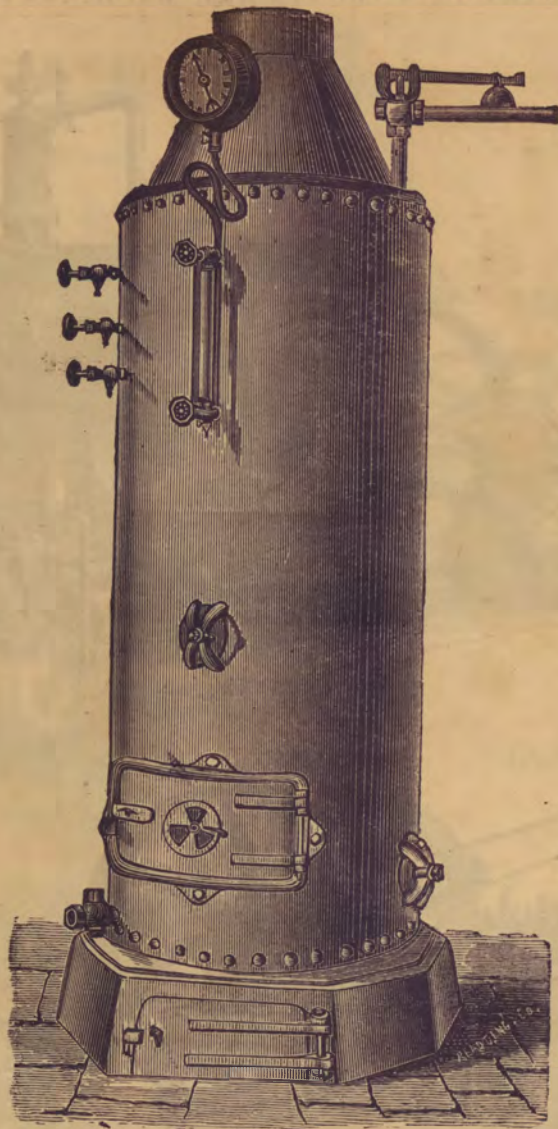
Traction Engine.



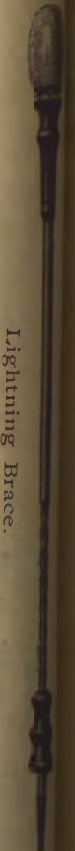
Combination Wrench.



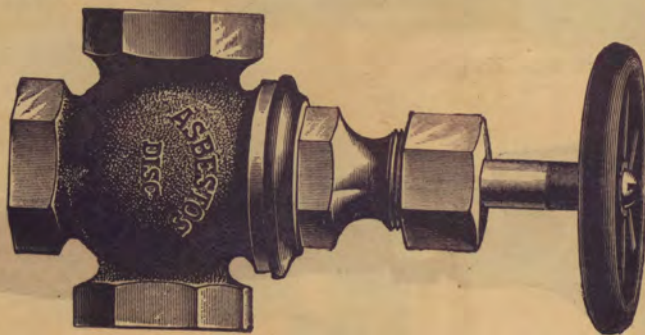
Lightning Brace.



Vertical Boiler.



Lightning Brace.



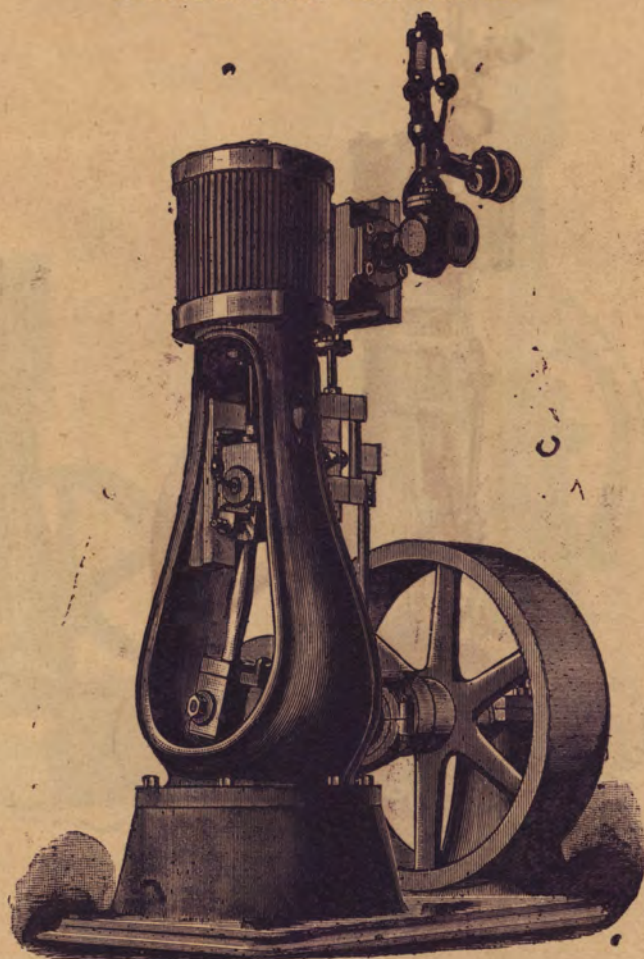
Asbestos Disc Brass Globe Valve.

For Prices and Further Information call on or address J. BACHMAN, KEMPTON, Pa.

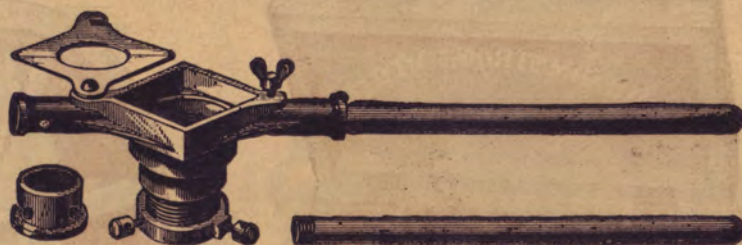
HAMBURG ENGINE.



Asbestos Disc Brass Radiator Valve.



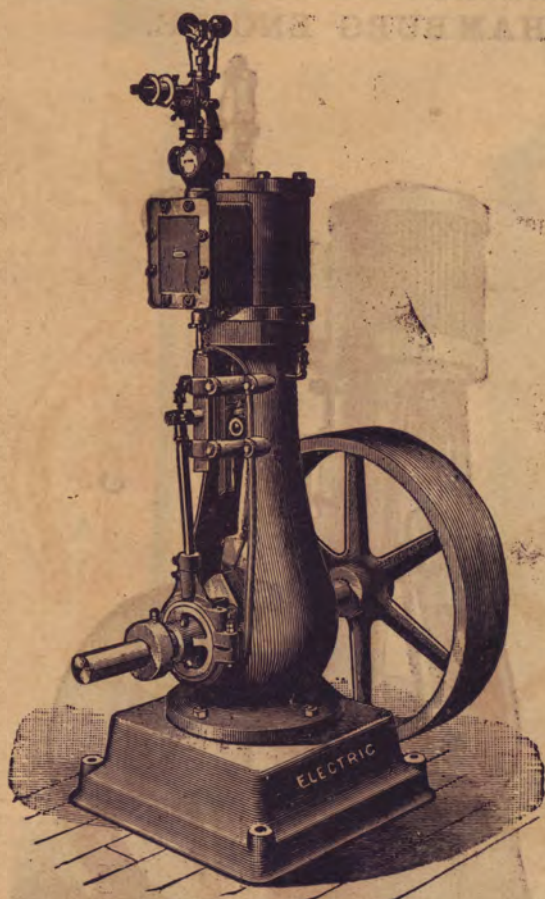
Brown's Pipe Tong.



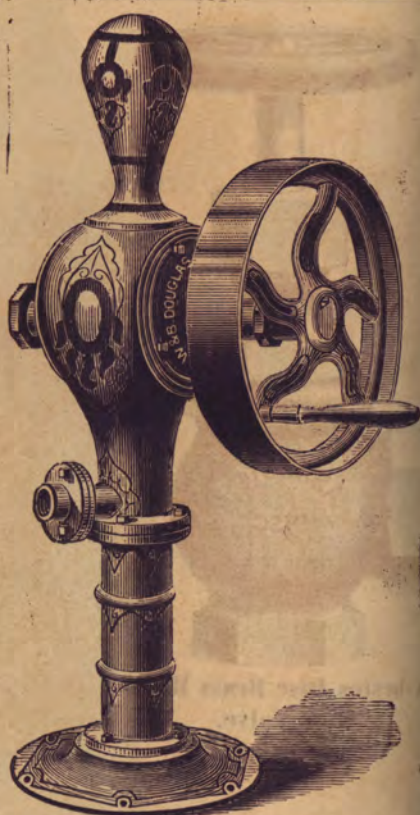
Pipe Stock and Dies.



Stanwood's Pipe Cutter.



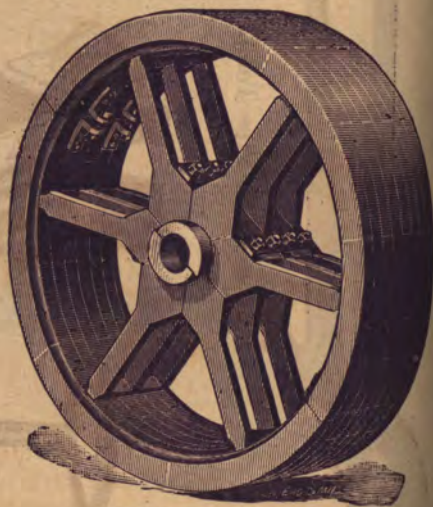
Vertical Engine.



Force Pump, with Buck Attachment for Hand and Power.



Armstrong's Adjustable Stock and Dies.



Wood Split Pulley.

For Prices and Further Information call on or address J. BACHMAN, KEMPTON, PA.



Vertical Engine and Boiler Combined.

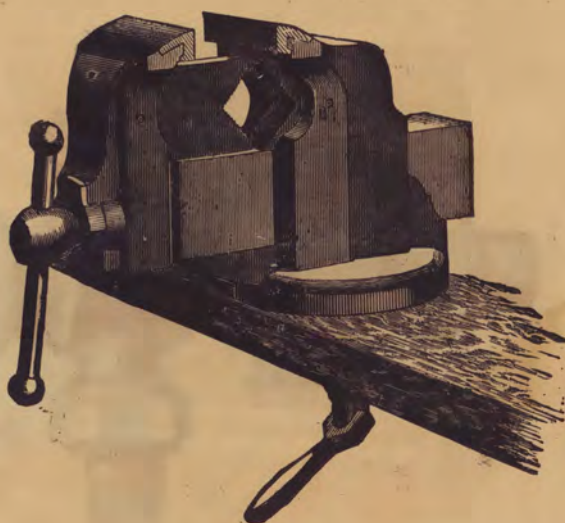
Lightning Hose Coupler.



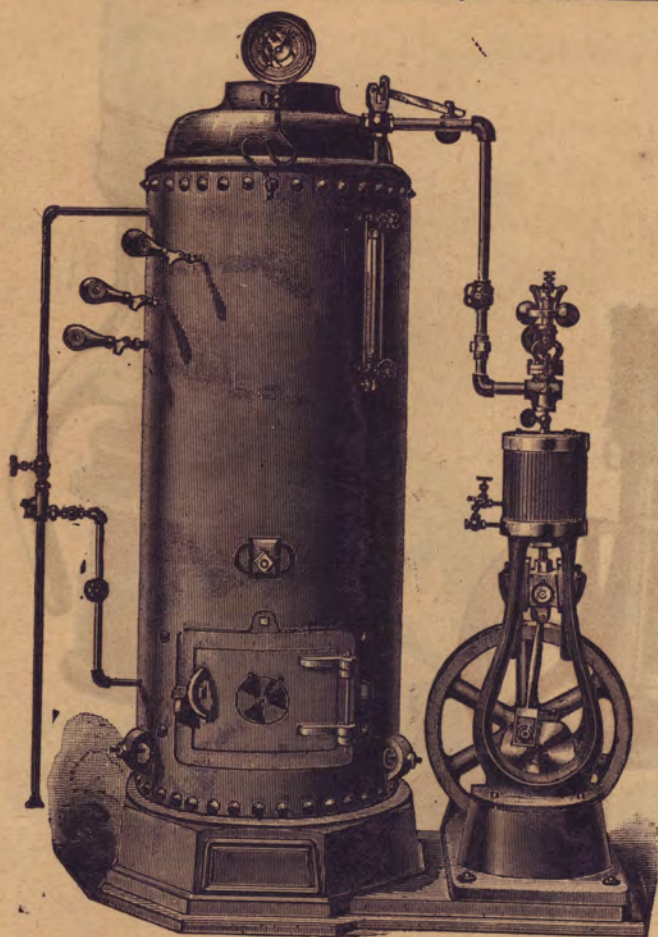
Interlocking Wood Split Pulley.



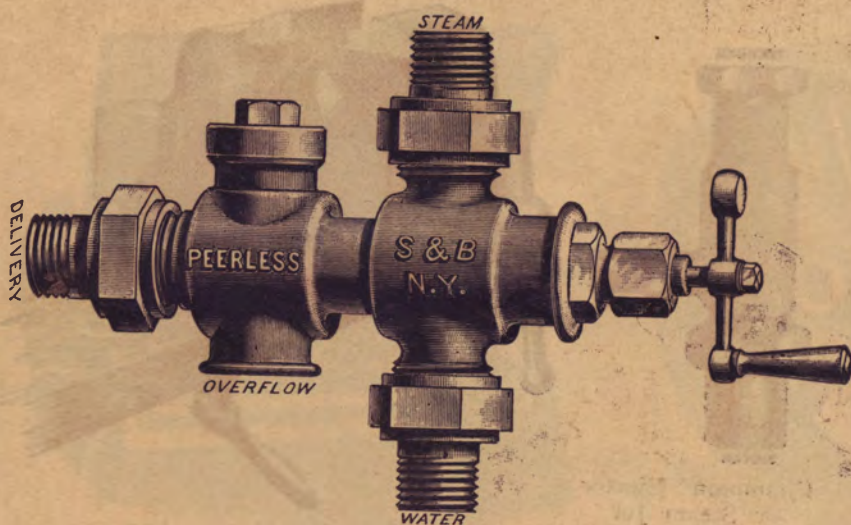
Champion Ejector
or Steam Jet
Pump.



Parker's Combination Vise.



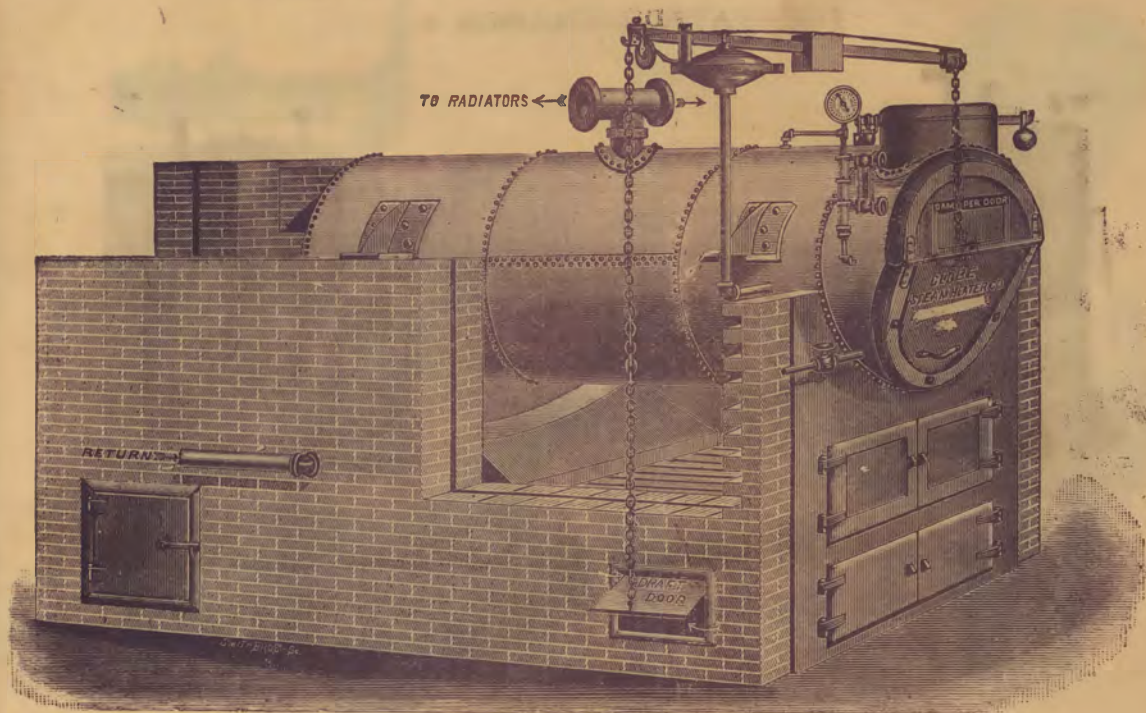
Vertical Engine and Boiler.



The Peerless Injector.



For Prices and Further Information call on or address J. BACHMAN, KEMPTON, PA.



MAURER BROS. GLOBE HORIZONTAL STATIONARY STEAM HEATER.
FOR HEATING CHURCHES, SCHOOLS, &c.

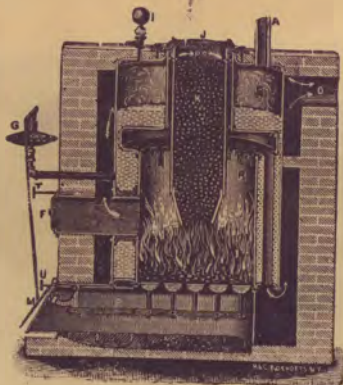


Hook Plates.

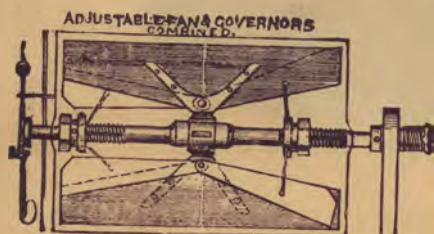


For Prices and Further Information call on or address J. BACHMAN, KEMPTON, PA.

MAURER BROS.' DUNNING BOILER, FOR HEATING DWELLINGS, &c.



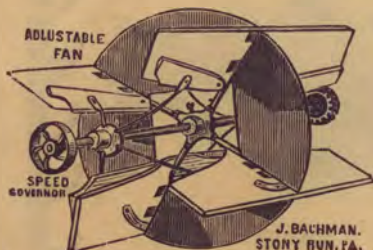
ADJUSTABLE FAN AND GOVERNORS.



No. 1. Governor and Speed Regulator. unrivaled in producing variable independent and perfectly uniform speed ; simple in construction, durable and convenient.

The adjustable Fan is unequalled in its adjusting construction for producing a uniform blast.

The Cylinder Governor with Counterpoise Lever, Weight and Brake Block combined.



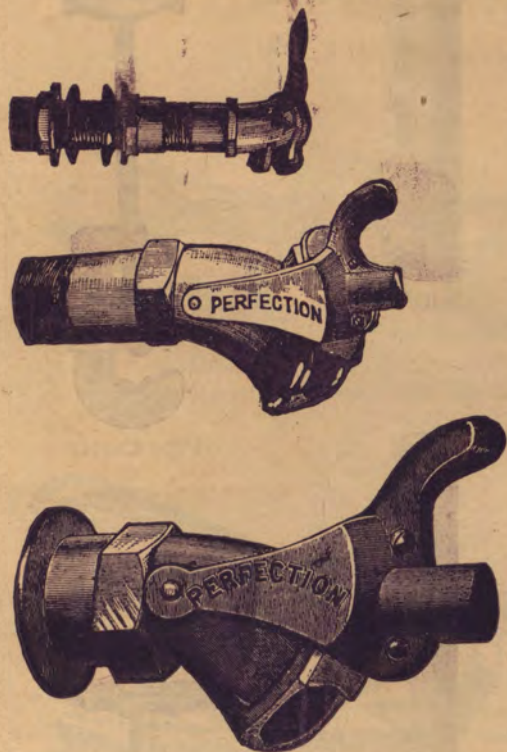
J. BACHMAN,
STONY RUN, PA.

No. 2 with blades improved, otherwise it is the same as No. 1.

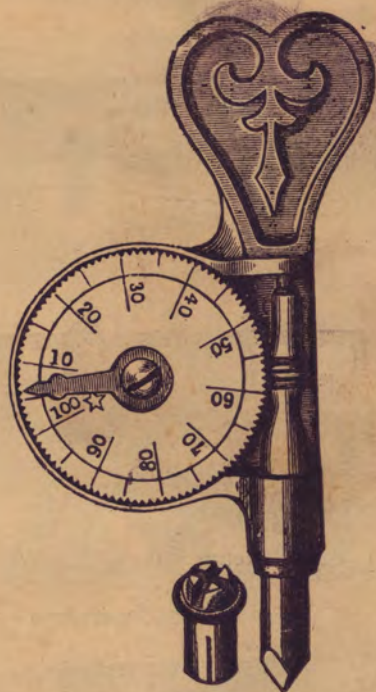


No. 3 is the same as No. 1, only it is encased and shows operation.

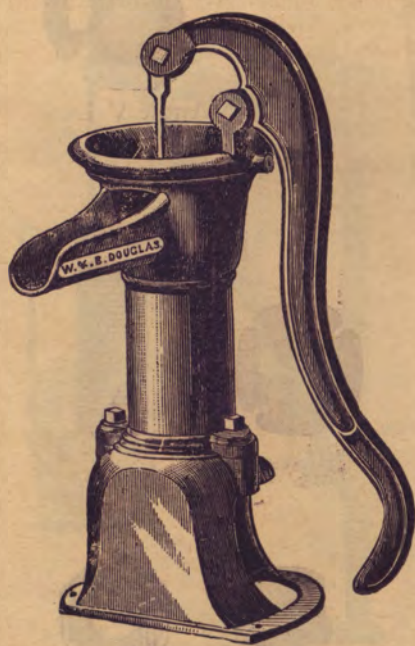
For Prices and Further Information call on or address J. BACHMAN, KEMPTON, PA.



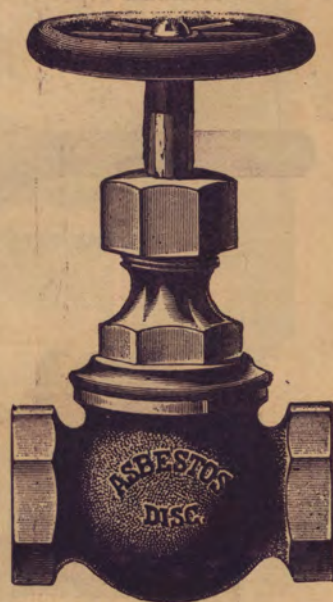
Perfection Gates, and Bent Gate with Nipples and Brass Collars.



Speed Indicator.

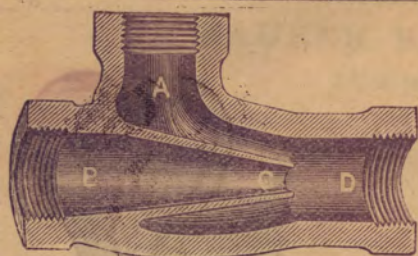


Pitcher Pump.



Asbestos Disc Brass Globe Valve.

For Prices and Further Information call on or address J. BACHMAN, KEMPTON, PA.



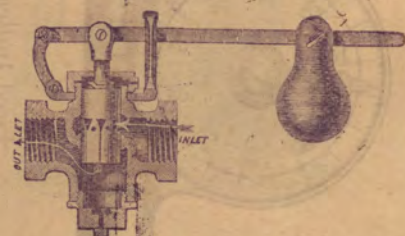
Suction Tee.



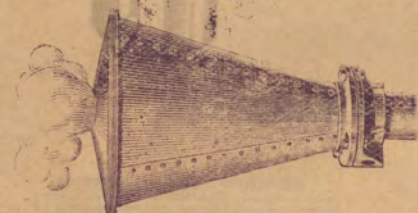
Branch Ties.



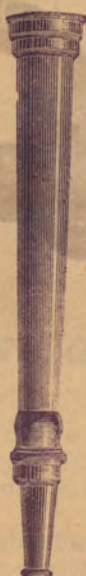
Pipe Cutter.



Steam Pump.



Exhaust Pipe Head.



Spray Nozzle.



Angle Valves.



Alligator Wrench.



Check Valve.



Check Valve.



Crosses.



Nipples.



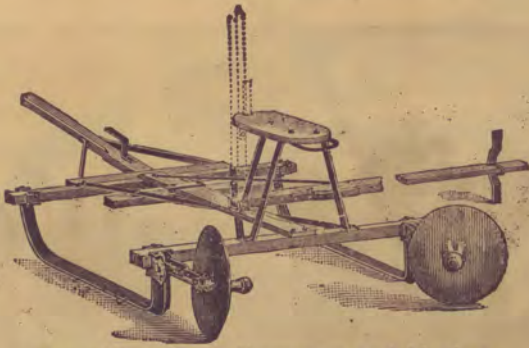
Reducers.



Caps.



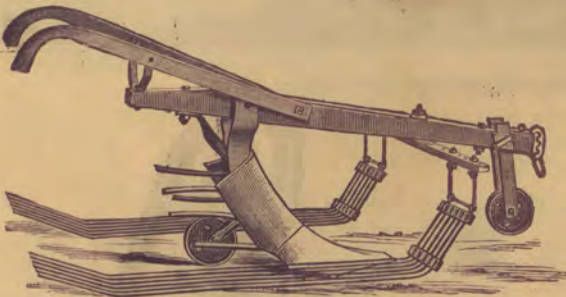
Lock Nuts.



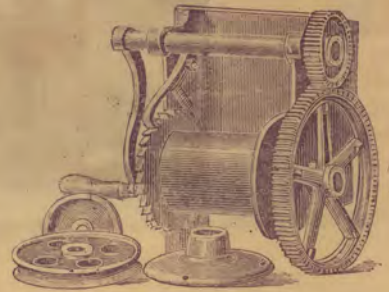
Darnell's Patent Furrower and Marker.



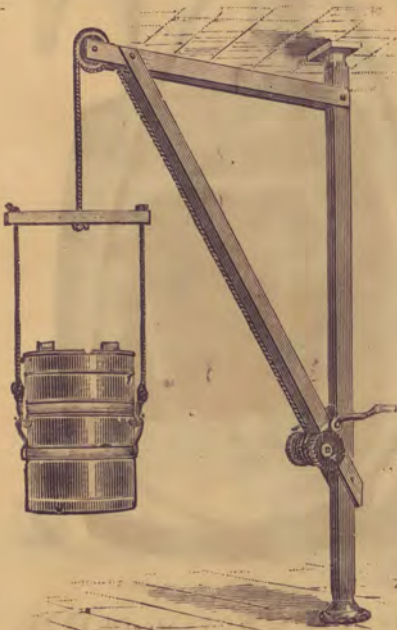
New Grape Hoe.



Hallock Improved Patent Potato Digger.



Hoisting Crane Casting.



Hoisting Crane Arrangement.



Pneumatic Fruit Drier.

For Prices and Further Information call on or address J. BACHMAN, KEMPTON, PA.

IMPROVED SPRAYING OUTFITS.

This illustration shows the usual method of mounting the outfits for general orchard spraying. Two or more extra barrels of water may be carried in the wagon to supply the pump. When the foliage on the trees is high above the ground, it will be found convenient to use a long pole, to which the nozzle may be attached.



By this means the spraying can be guided to any part of the tallest trees.



Lawn Mower.



PERFECTION SPRAYING OUTFIT,
For Hand Power.

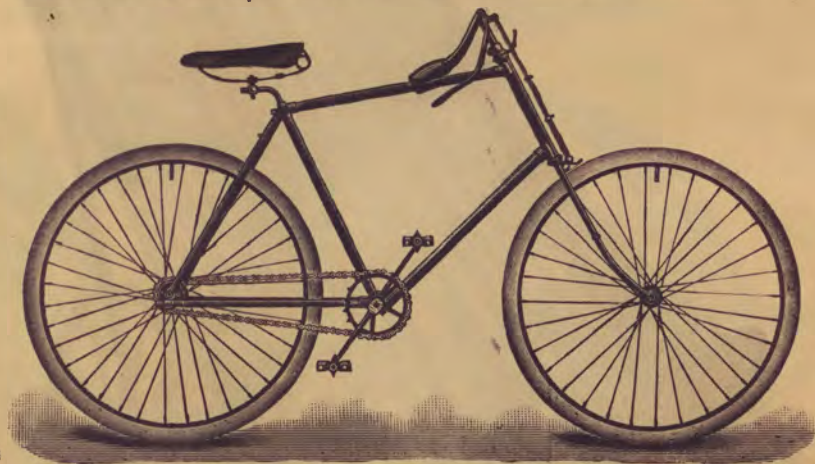
It supplies the Spraying Nozzle and keeps the Liquid stirred up in the Barrel

For Prices and Further Information call or address J. BACLMAN, KIMMION, PA.



READING FLYER.

FRAME. Long base, true diamond with 11 inch head, made from seamless steel tubing.
FRONT FORK. Hollow, of best steel, handsomely curved and fitted with detachable footrests.
HANDLE BAR. Best seamless steel tube, Scorchers pattern, fitted with cork grips; to this is attached a drop forged brake lever.
WHEELS. 28 inch, fitted with Crescent steel rims, cold rolled.
SPOKES. No. 13 gauge, full nicked, and adjusted at rim with a nipple, fitted with pneumatic tires.
CRANKS. Best forged steel, round, detachable, and fitted to crank axle in a substantial manner.
CHAIN ADJUSTMENT. Simple, effective, and perfection itself.
CHAIN. Huber pattern, made by special machinery, of the very best steel, case hardened for wear.
SPROCKETS. Made of steel, and machine cut.
BEARINGS. Full ball including head.
BRAKE. Plunger pattern, direct action and very effective.
SADDLE. "Solid Comfort" full nickel.
FINISH. Finest nickel and black baked enamel.
TOOL BAG. Wrench, oil can and repair outfit with each wheel.



READING JUNIOR FLYER.

Designed especially for boys, built in 24 and 26 inch sizes.
WHEELS. Fitted with 1½ pneumatic tires.
SPOKES. No. 13 gauge, full nicked.
FRAME. Diamond shape, of seamless steel tube, with 9 inch ball head.
FORKS. Round steel tube, fitted to a fork crown, especially designed for this wheel.
HANDLE BAR. Steel tube, Scorchers pattern, with combination cork and rubber grips.
BRAKE. Plunger pattern.
SADDLE. Boys' "Solid Comfort" made expressly for this wheel.
BEARINGS. Full ball including pedals.
TOOL BAG. Wrench, oil can and repair outfit go to make this the best boys' wheel offered by any manufacturer.

PRAY'S PATENT
ICE FLOW.

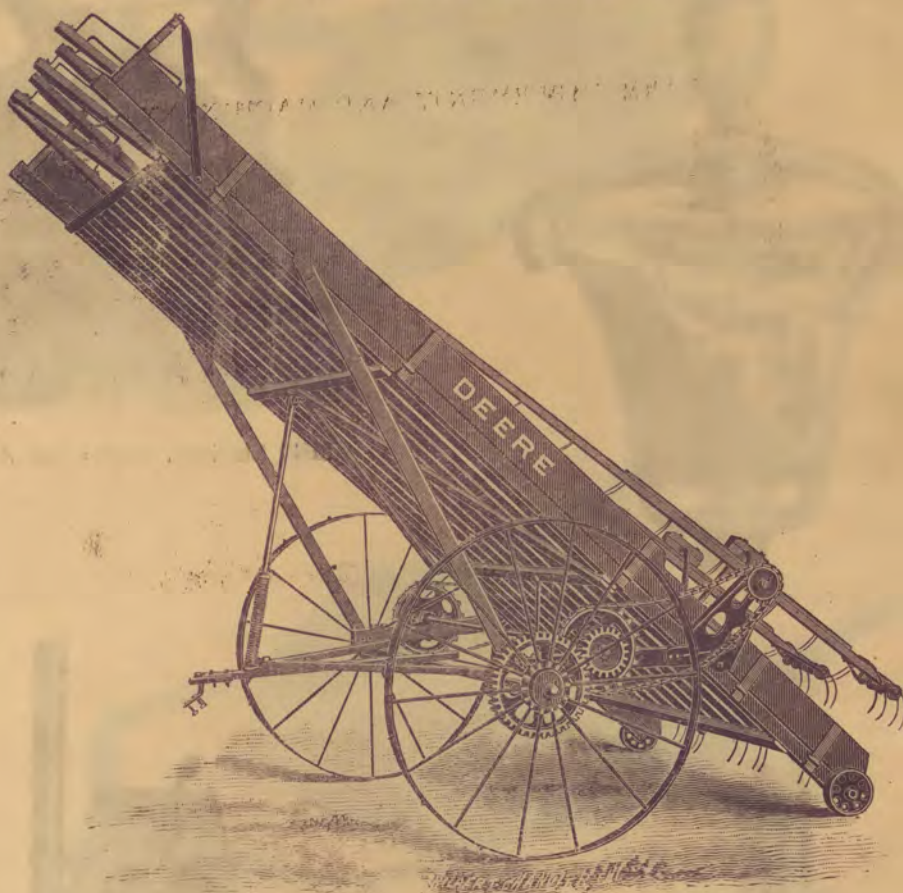


THE DEERE HAY LOADER.

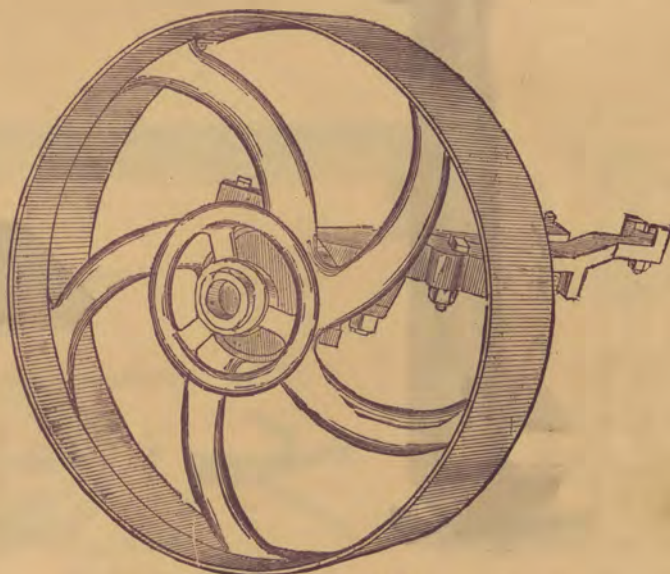
Takes a Swath Six Feet Wide and Dispenses with Side Delivery Rakes.



DEERE HAY LOADER.

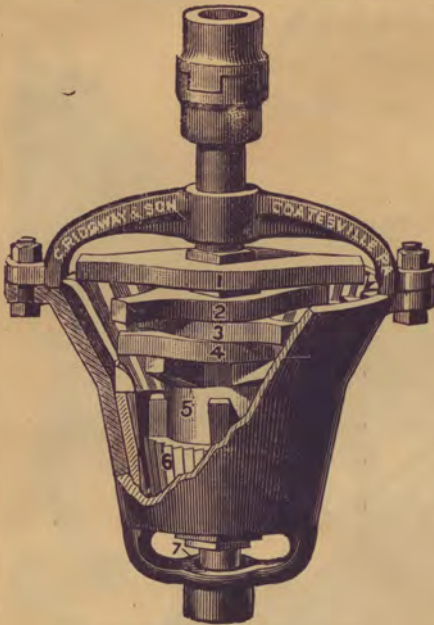


Steel Galvanized Sink.



Speed Governor.

For Prices and Further Information call on or address J. BACHMAN, KEMPTON, PA.



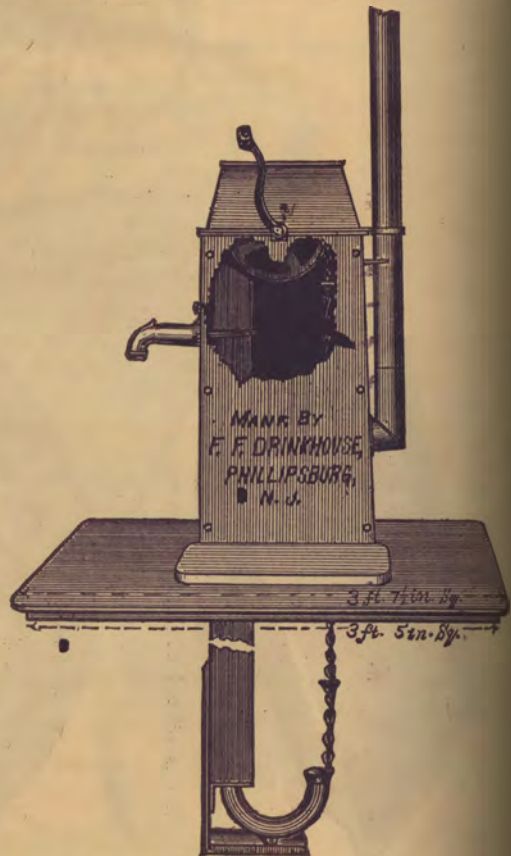
Corn and Cob Crusher.



Milk Strainer, Cooler and Aerator.

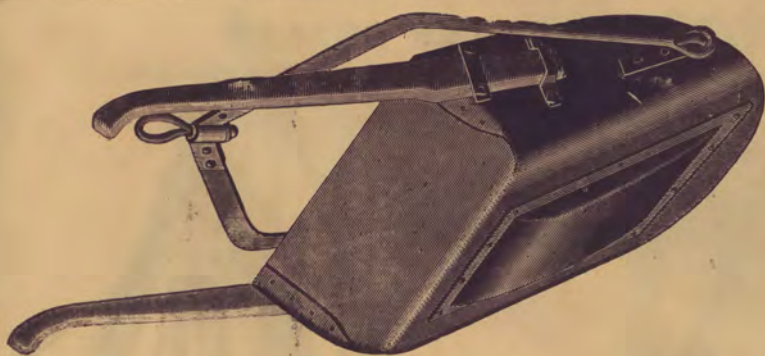


The Champion Carriage Wrench.

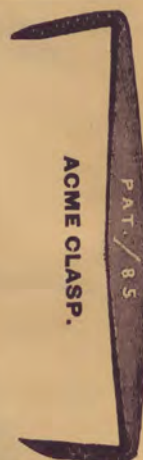


Cast-Iron Chain Cistern and Well Pump.

For Prices and Further Information call on or address J. BACHMAN, KEMPTON, PA.



Scoop.



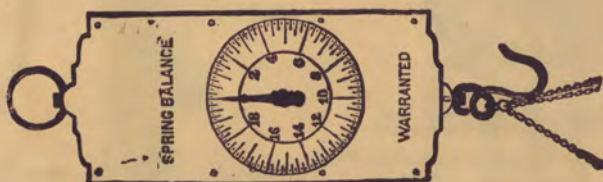
BUTTER TUB COVER FASTENER.



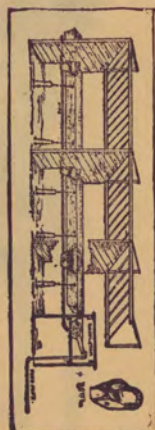
Scoop.



Tub Fasteners.



Hanging Salt Scale.

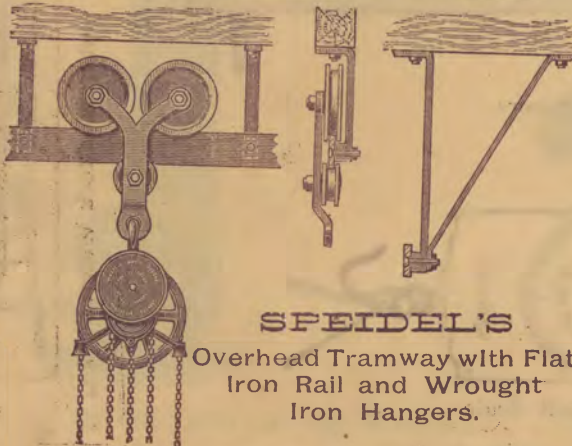
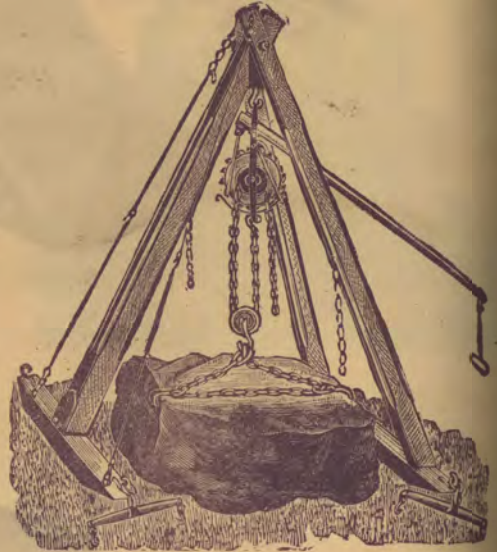


Automatic Stock Waterer.

FARM IMPLEMENTS AND MACHINERY.

BENNTT'S STUMP PULLER.

Can be used both as a Stump Puller and Rock Extractor.

**SPEIDEL'S**

Overhead Tramway with Flat
Iron Rail and Wrought
Iron Hangers.



Lower Block in Po-
sition for Slow
Speed.

For Prices and Further Information call on or address J. BACHMAN, KEMPTON, PA.

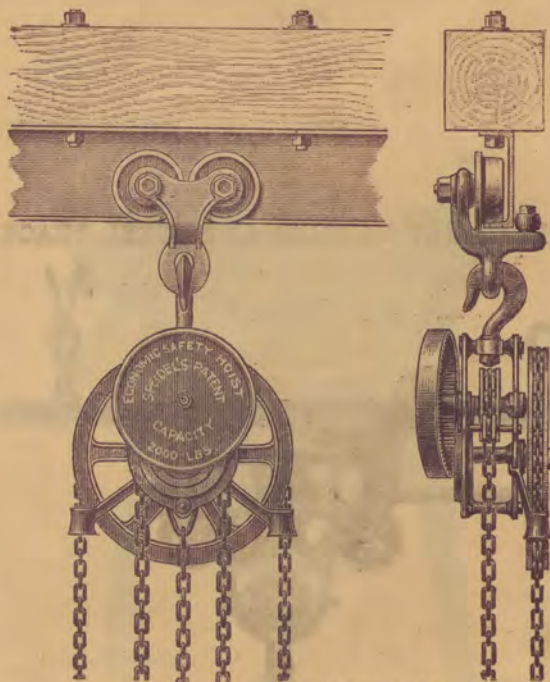
**Speidel's Patent Economic Safety Hoist
With STATIONARY FRAME.**



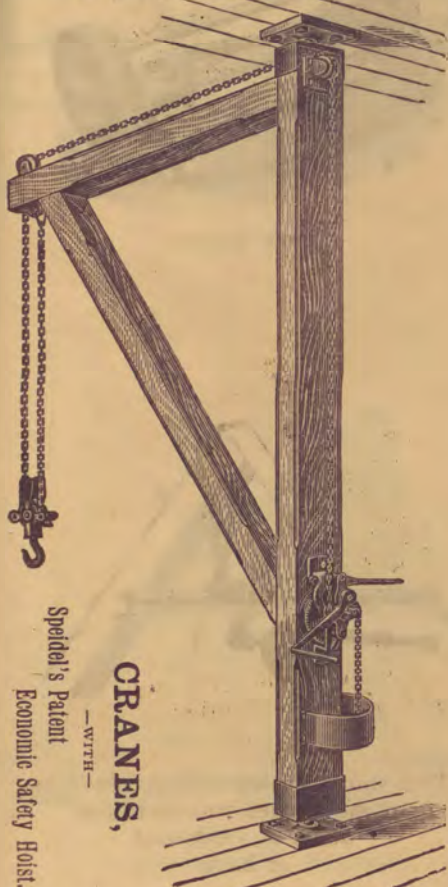
The above engraving represents a stationary hoist with crank motion and automatic safety brake.



Speidel's Portable Folding Derrick.



**OVERHEAD TRAMWAY,
With Trolley Running on Channel Beams.**



CRANES,

Speidel's Patent
Economic Safety Hoist.

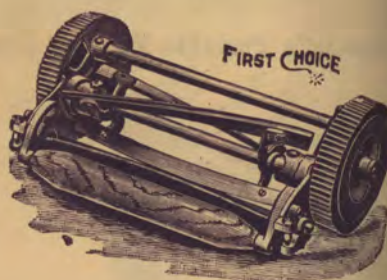
For Prices and Further Information call on or address J. BACHMAN, KEMPTON, PA.



Lower Block in Position for Fast Speed.

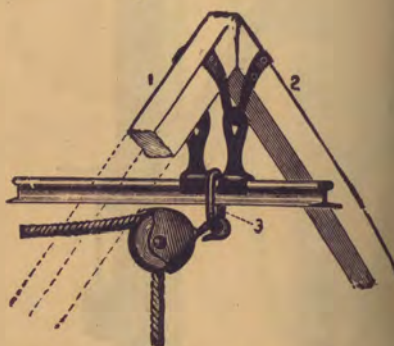
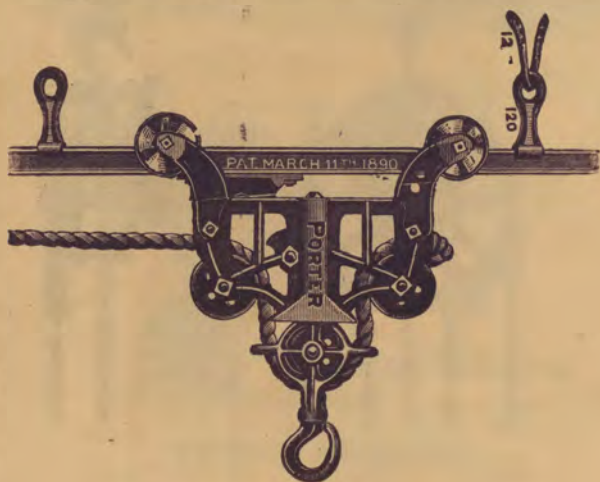


Tricycle.



Lawn Mower.

PORTER HAY CARRIER AND STEEL TRACK.



This shows pulley fastened in rear of mow when rope is taken down at gable end of barn.

For Prices and Further Information call on or address J. BACHMAN, KEMPTON, PA.



The Adjustable and Reversible Porter Carrier put up to carry hay on either side.



Showing End Brace used with Solid Steel Track when Hay is taken in at end of barn.



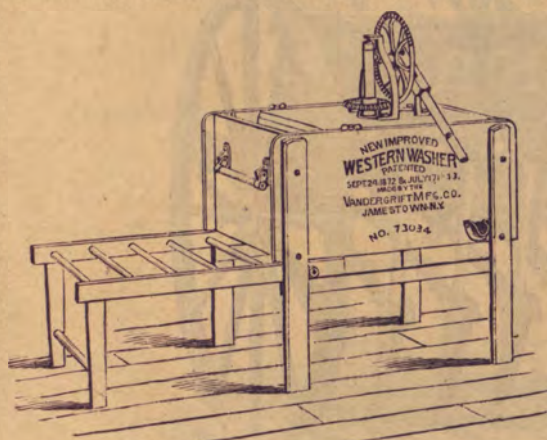
Gifford's Home Dairy Butter Churn and Worker.



Double Beam Butter Scale.



Butter Scale.



The Western Washer.



The Star Washing Machine.

For Prices and Further Information call on or address J. BACHMAN, KEMPTON, PA.

THE SUPERIOR GRAIN DRILL, With Fertilizer Attachment

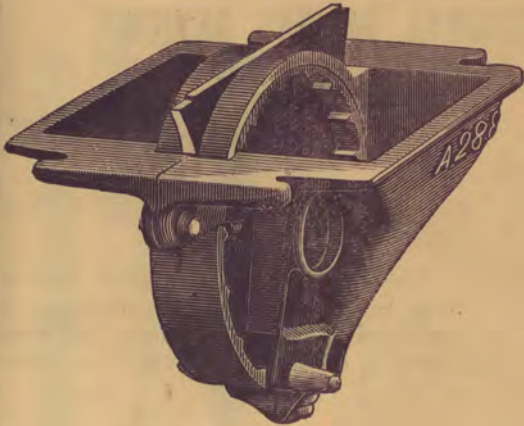


The advantages and practical merits that this drill embraces in sowing evenly and accurately, allows it to be justly styled as a leading Drill. Furnished with 8 or 9 Hoe.

THE SUPERIOR GRAIN DRILL.



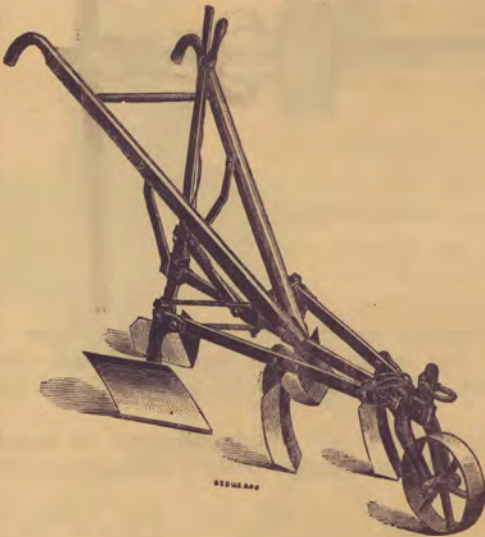
For Prices and Further Information call on or address J. BACHMAN, KEMPTON, PA.



This cut shows the Grain Distributor used in Superior Drills.



Perfection Water Wheel.



Common Sense Cultivator, with Suspension Lever.



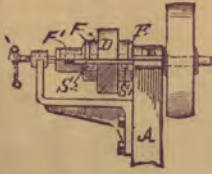
Truck, showing Bag Holding Attachment.



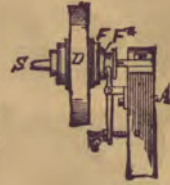
Floating Thermometer.

For Prices and Further Information call on or address J. BACHMAN, KEMPTON, PA.

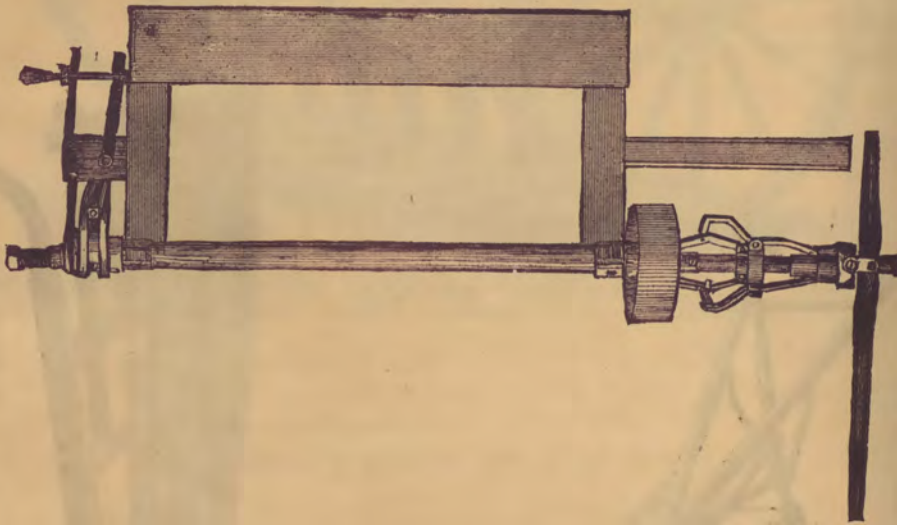
PATENT UNIVERSAL FRICTIONAL DRIVING DEVICE.



This cut represents a shaft having the Frictional Device placed on the same outside of the bearing, and operated by a screw threaded in a bracket attached to the frame.

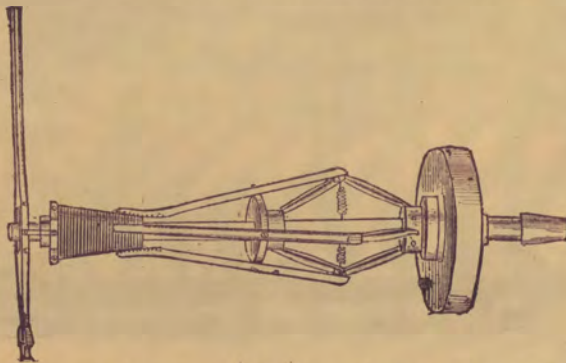


This cut represents a shaft with friction placed between the bearings, and operated by a Crotch Lever, fulcrumed upon a bracket fastened at a suitable point.



This cut represents my New Universal Frictional Driving Device, so arranged that it cannot, when the pressure is on, produce any lost motion. The right hand side shows an eccentric with rod to operate sieves or shaker, which can also be governed independently.

The small Spiral Springs shown at Toggling Joint at left hand end serve to regulate independent of the Driver Arrangement, which makes it the only perfect and most accurate device of the kind yet produced.

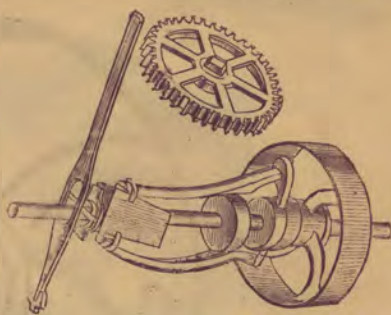


This cut shows Universal Frictional Driving Device without the Spiral Springs.

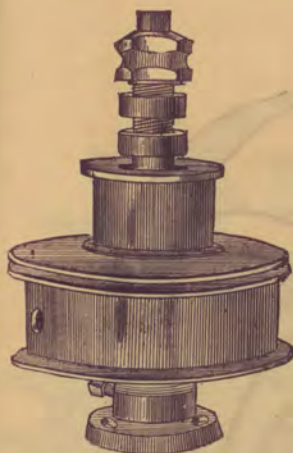
For Prices and Further Information call on or address J. BACHMAN, KEMPTON, PA.



This cut illustrates another method of transmitting the pressure to my Frictional Driving Device, when placed between the bearings.



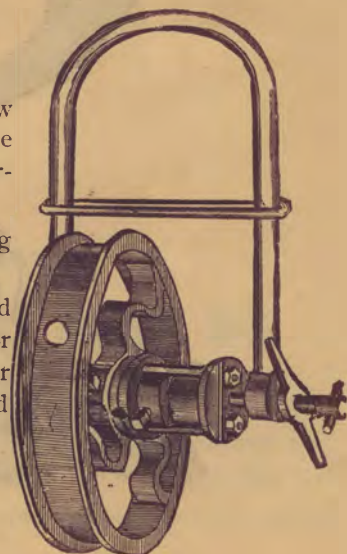
This shows Friction operated by a Tapered Key and Lever.



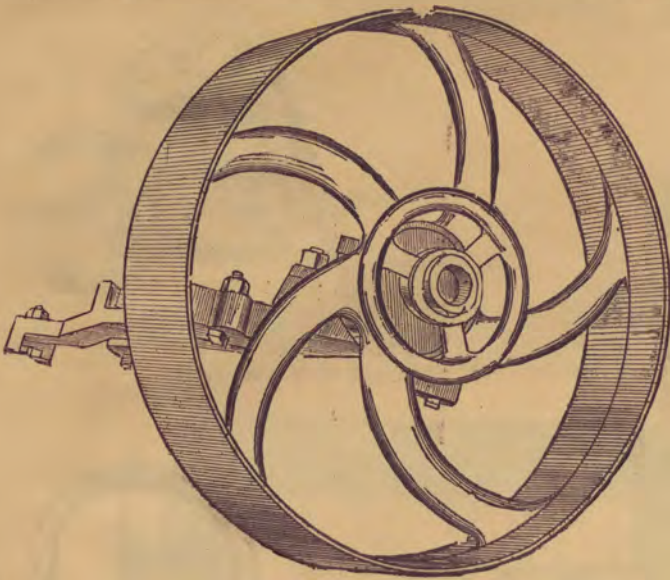
The accompanying cuts show how this Frictional Driving Device can be used on shafts when not specially arranged for.

It can also be used as a coupling cut-off.

It dispenses with loose pulleys and wear of belts by useless running or by belt shifters, and can be started or disconnected at any rate of speed with ease and safety.



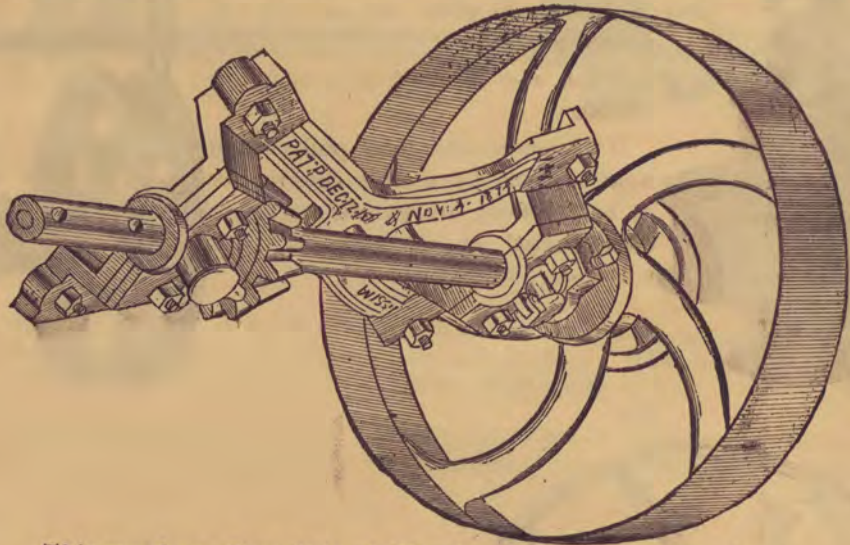
This cut shows the Frictional Driving Device made to a Shaker Wheel, which is so arranged by means of weights, that when the cylinder runs slow the shaker runs faster and when the cylinder raises its speed the shaker wheel decreases.



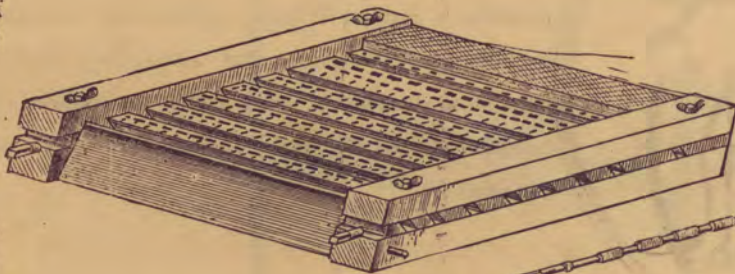
This cut shows my

Frictional Driving Device

applied to the Belt Wheel at Horse Power, where all machines are always in safety. It is applicable to all classes of machinery from the smallest to the most ponderous.



This cut shows Rear Side of Wheel, with Frictional Clutch, etc.



Adjustable Grain Sieve.

Detailed View of Adjustable Grain Sieve.



For Prices and Further Information call on or address J. BACHMAN, KEMPTON, PA.

This New Patent

ADJUSTABLE

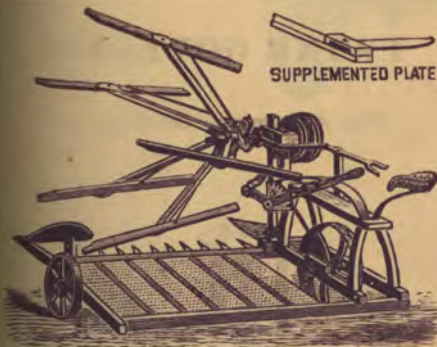
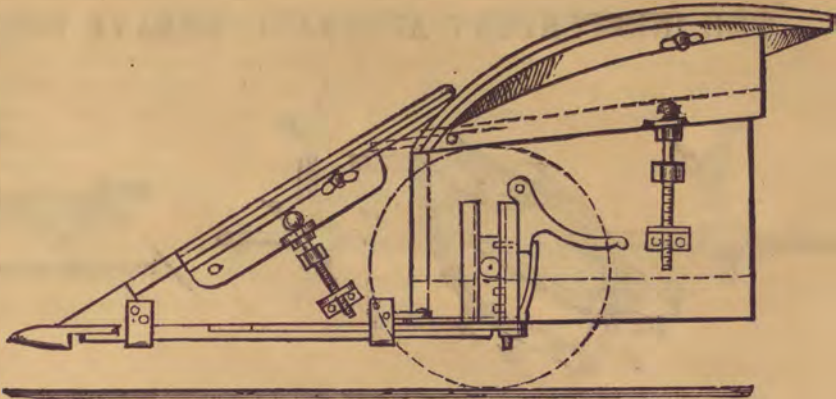
OUTSIDE

DIVIDER

is indispensable in many respects.

To prevent long stubbles while cutting on side hills; for cutting around fences, trees, stumps, rocks and any other obstructions, it is so

constructed that when it runs against anything it calmly folds back, like a sensitive plant at the touch of the hand. It is well-nigh impossible to break it. The back of Divider is humped, which renders it to work well in damp grain.



This cut shows my

Patent Adjustable Harvester Reel,

with Knee Lever for shifting the Reel wings according to the conditions of grain. It shows also the foot spring for throwing the Reel back and forward. For gathering grain in harvest fields it has no rival.

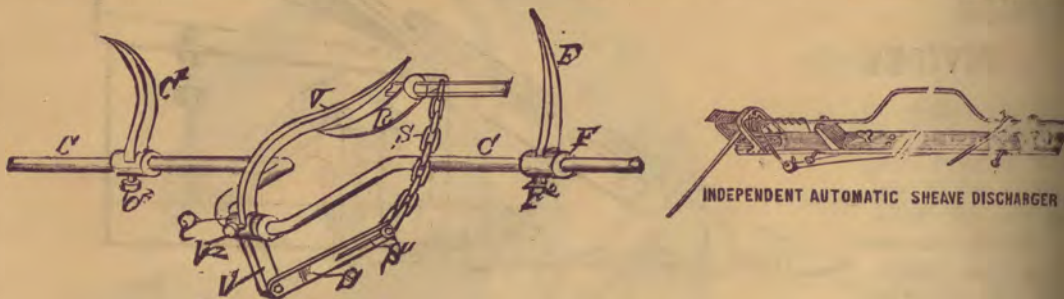


GRAIN TOSSER.

For working grain on the deck of binders.

Choking and thrashing of grain is prevented by this device.

THE INDEPENDENT AUTOMATIC SHEAVE DISCHARGER.



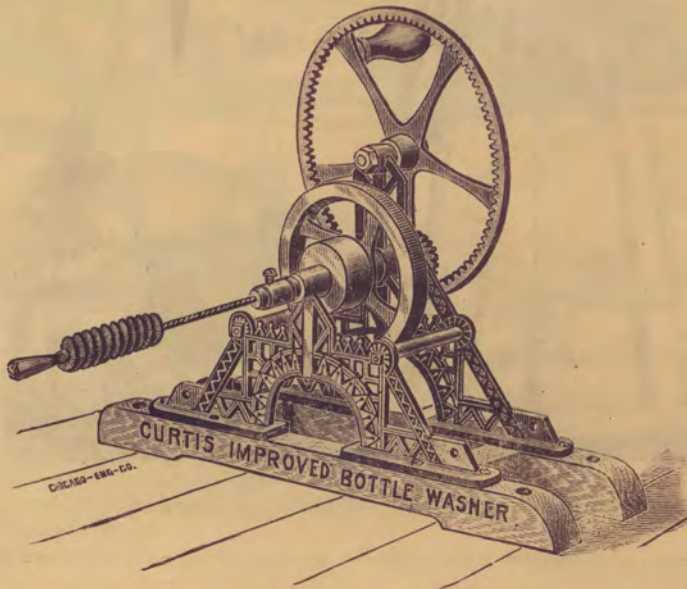
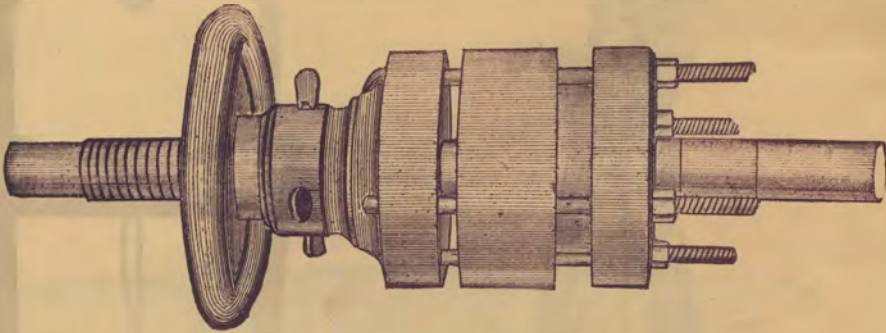


THE CYCLONE SEEDER.

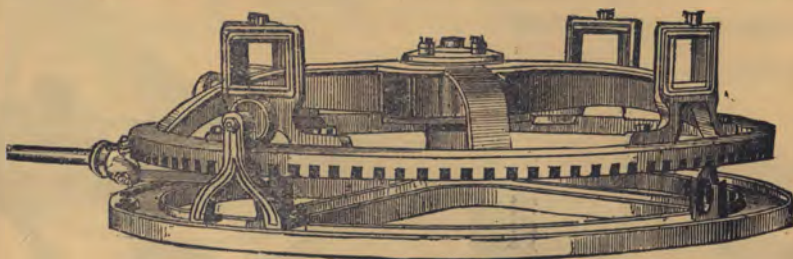
The Cyclone Seeder is similar in construction to the bow machine, (which is widely known for its superiority.) The difference is this, it is a geared machine and works with a crank, which seems to be the preference of some of our farmer friends.

The machine weighs 4 pounds and is suspended by a strap over the shoulder, which hangs in the most convenient manner. It is so simple a boy can use it. Full directions are attached to every machine.

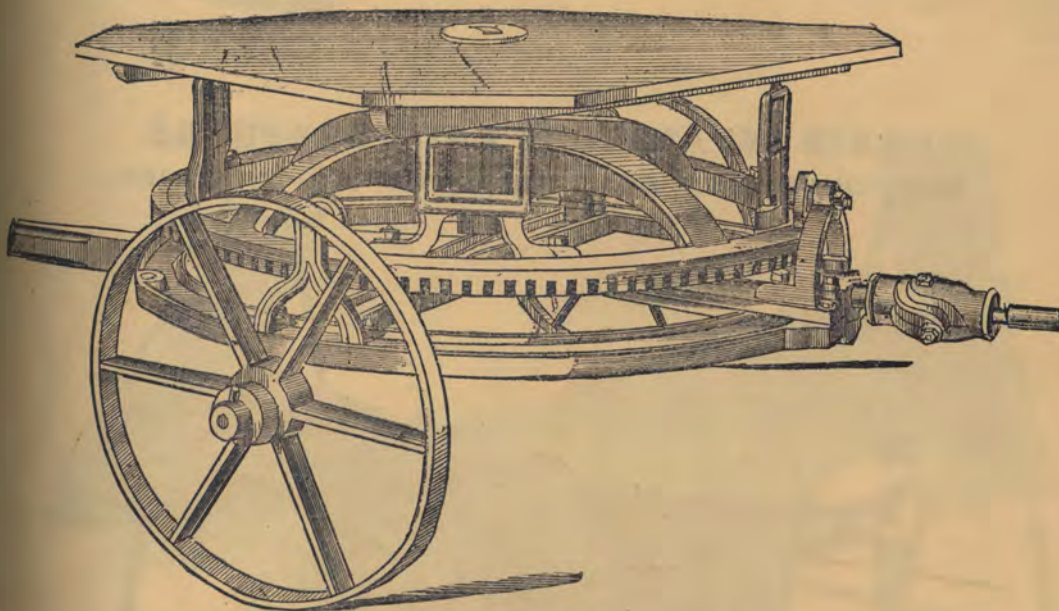
The machine is strongly built of the best of material and well painted with the best of paint. The bag or hopper is extra large and made from extra duck, in fact every detail is closely looked after and made of the best.





HORSE - POWERS.**WISSLER'S IRON-RING HORSE POWER.**

The above cut represents Power to be fastened on sills.



This cut represents Power mounted to move from place to place.

Price of Iron Ring Power with Universal Jack Complete,	\$85.00
Price of Iron Ring Power with Universal Jack Complete, mounted on two wheels, with tongue,	15.00 extra
Price of Jack with Upright Shaft,	15 00 extra
Price of Power with rod extending through centre, to make Power attachable at both ends,	8.00 extra

For Further Information call on or address J. BACHMAN, KEMPTON, PA.

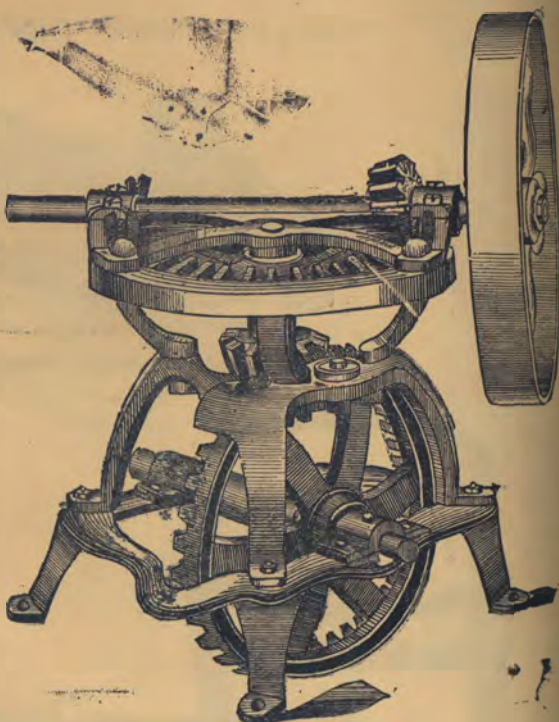
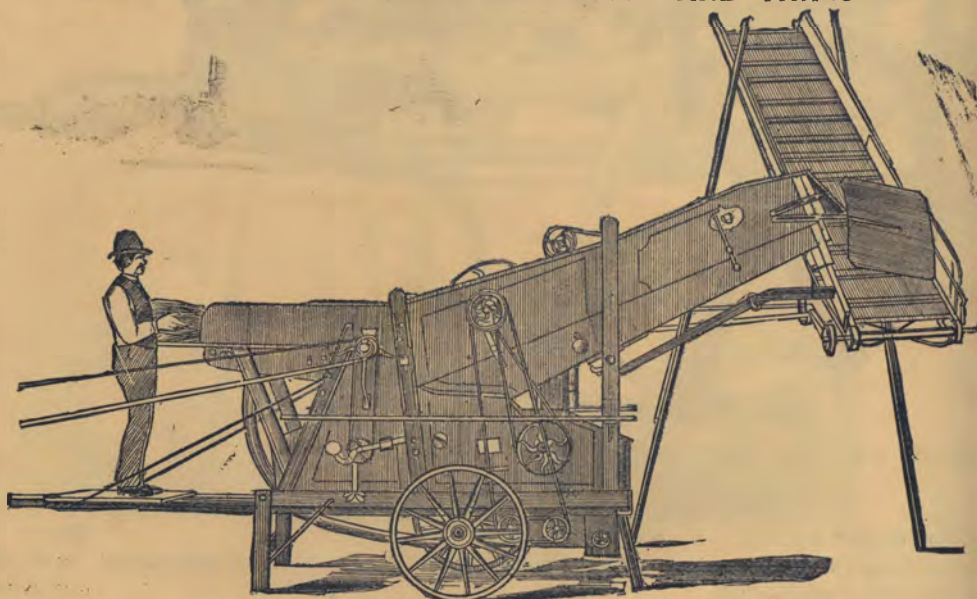
HORSE-POWER JACKS.

The Universal Horse-Power Jack is made in three sizes, namely, Nos. 1, 2 and 3.

Send for special circular describing meritorious and beneficial advantages of this Power and Jack for long life and conveniences. These Powers and Jacks must be seen to appreciate their perfect wearing parts for light running.

PRICES OF UNIVERSAL HORSE-POWER.

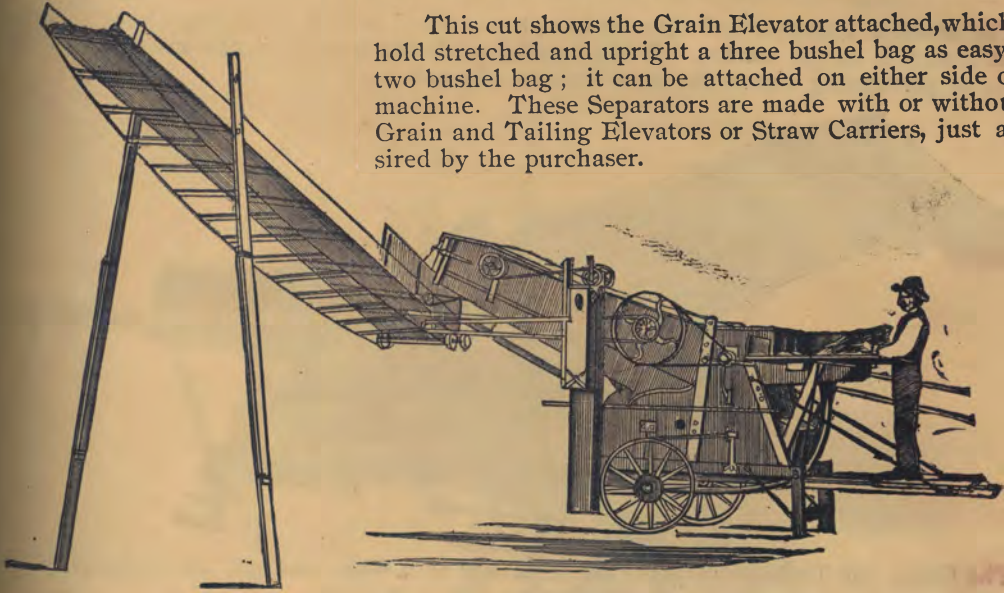
No. 1	Genuine	with	Iron	Frame,	\$35.00
No. 2	"	"	"	"	28.00
No. 3	"	"	"	"	18.00

**GRAIN SEPARATORS AND THRESHERS.****THE YOUNG CHIEF GRAIN SEPARATOR AND THRESHER.**

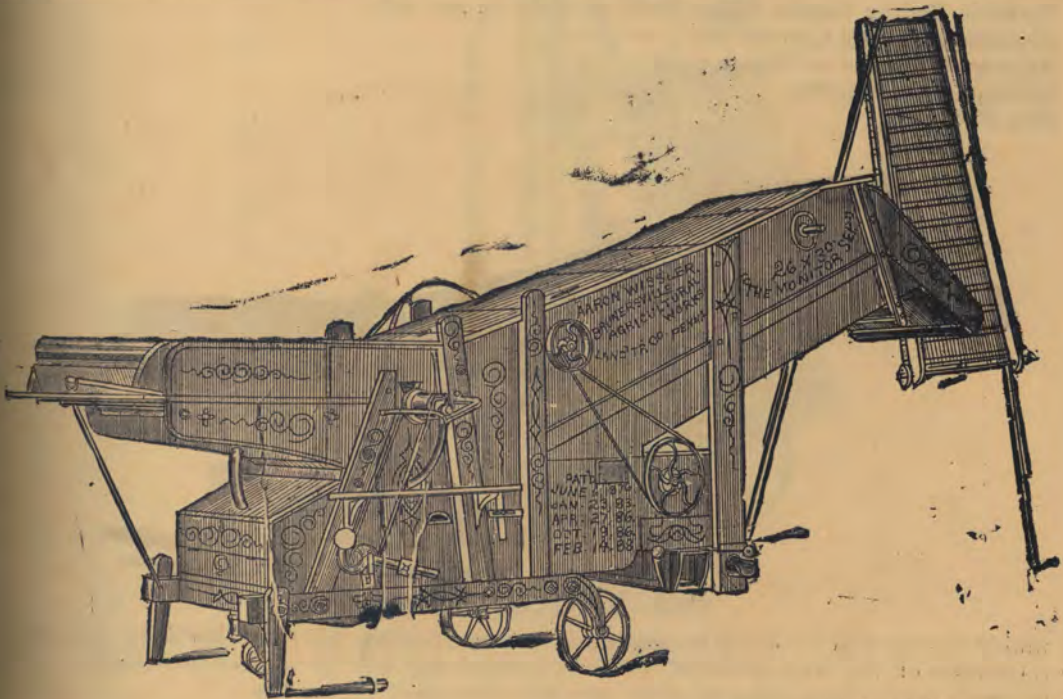
With 20 ft. Straw Carrier, delivering the straw to the side as well as straight on.

For Further Information call on or address J. BACHMAN, KEMPTON, PA.,

This cut shows the Grain Elevator attached, which will hold stretched and upright a three bushel bag as easy as a two bushel bag; it can be attached on either side of the machine. These Separators are made with or without the Grain and Tailing Elevators or Straw Carriers, just as desired by the purchaser.

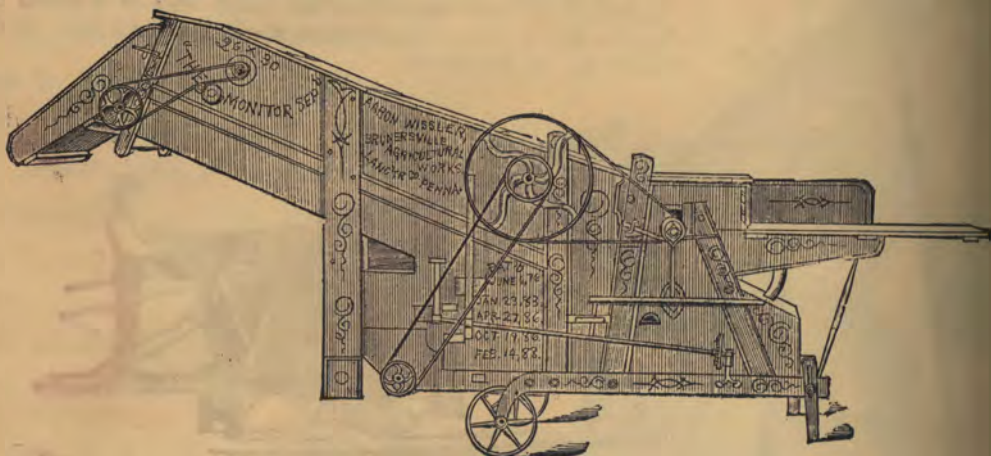


24	inch	Cylinder	on	two	wheels,	width	of	Shaker	and	Separator,	28	inches,	\$157 50
26	"	"	"	"	"	"	"	"	"	"	30	"	167 50
30	"	"	"	"	"	"	"	"	"	"	36	"	177 50
36	"	"	four	"	"	"	"	"	"	"	"	"	190 00
30	"	"	"	"	"	"	"	"	"	"	"	"	195 50
26	"	"	"	"	"	"	"	"	"	"	"	"	185 50
Extra for Shifting Straw Carrier,													22 50
" " Adjustable Grain Bagger,													14 00



For Further Information call on or address J. BACHMAN, KEMPTON, PA.

The Monitor Thresher and Cleaner has proven itself to be a perfect machine, considering the time it is on the market. It is a smaller made machine than the Young Chief, yet capable of performing almost the same amount of work.



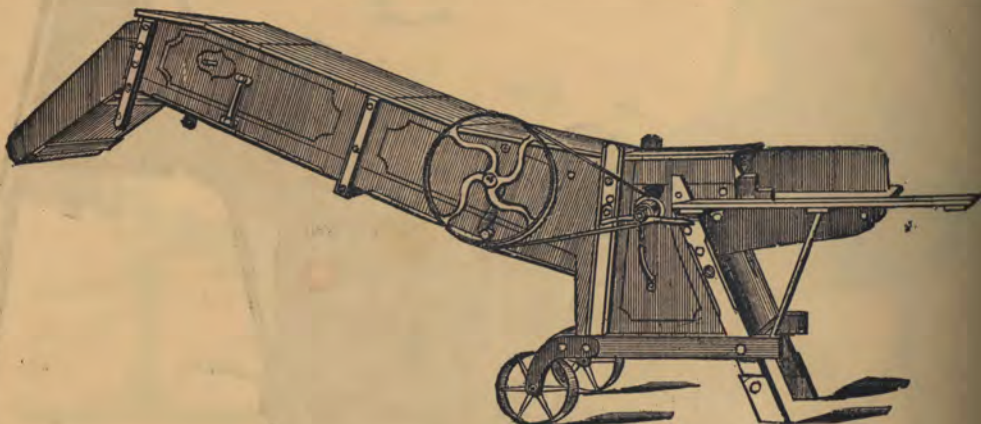
The Grain and Tailing Elevators are furnished to it when desired, the same as to the Young Chief. Straw Carrier can be used right, left or straight.

This Separator can be mounted on a higher truck, same as the Young Chief, when so desired. Send for descriptive circulars giving some idea of the way it is constructed and performs its work so nicely and accurately.

Cylinder.	Rear Separator behind Cylinder.	Price for a	
24 inches by 28 inches	Monitor Separator,		\$127 50
26 " by 30 "	" "		135 50
30 " by 36 "	" "		145 50

PRICES FOR EXTRAS.

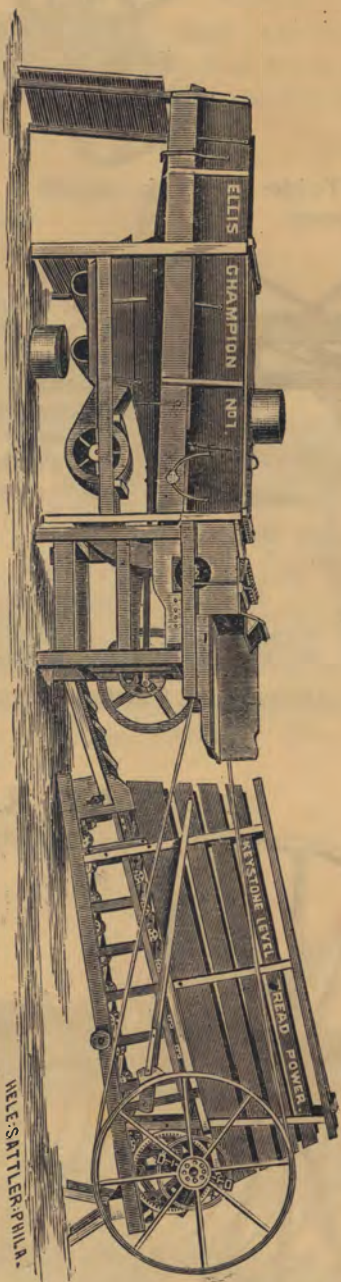
Portable Tailing Carrier, either style, to place on any side,	\$16 50
Stationary Tailing Carrier, coil conveyor,	15 00
Adjustable Bagger to elevate grain,	14 00
Shifting Straw Carrier,	20 00
Side Fixtures,	2 50



THE MONITOR THRESHER

cannot be excelled for doing complete work, easy running, etc. In threshing and shaking it operates on the same principle as the Separators and has the same improvements. It can be easily moved from place to place, and has only three loose parts.

For Further Information call on or address J. BACHMAN, KEMPTON, PA.



Level Tread, One-Horse Double Geared Power, Thresher and Cleaner.

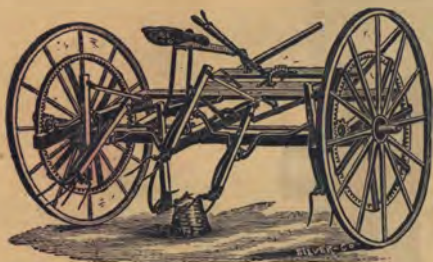
Price of 2 Horse Rig Mounted,		
1	"	\$355.00
1	"	180.00
2	" Power alone,	125.00
1	"	90.00

This machine is large enough for any 100-acre farm. Four of them sold to one of larger size.

HAY TEDDERS.



This shows a Tedder with forks outside of wheel, tedding up immediately the hay over which the wheel passes.



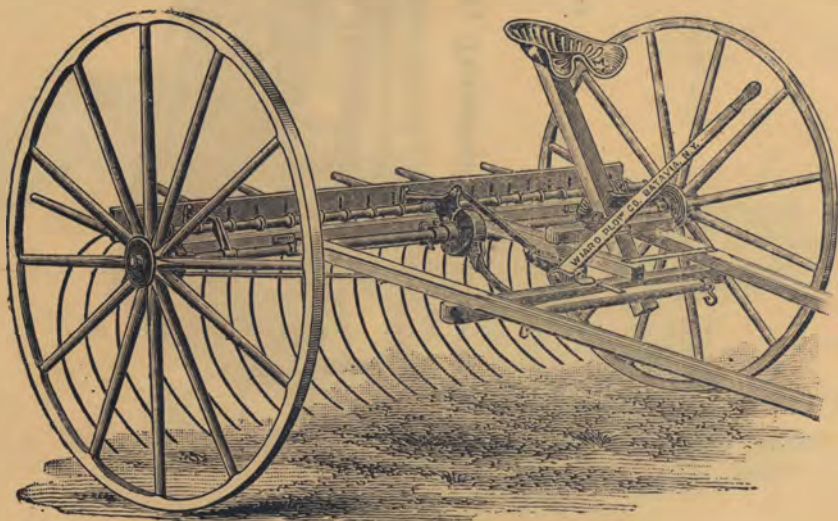
A Tedder is worth having on a farm where hay is made to any extent. It is a well-known fact that hay to be good should be dried quickly and thoroughly with as little sun as possible in order to preserve all its natural juices. A Tedder will enable a farmer to do this in the most effectual manner. In fact, the practical utility is so great that its operation must be witnessed to be fully appreciated. The bearings of my Tedders are long and every strainable part is made of steel.

The list below are the leading Tedders :

[illegible]

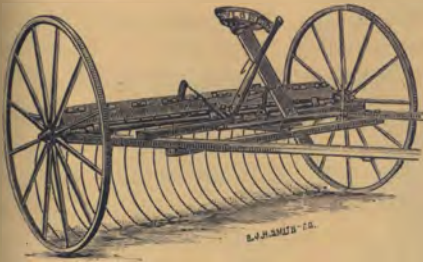
The Mudgett, Advance and Chieftain have combined pole and shafts.

HAY RAKES.



The Wiard Hay Rake has important improvements not found in most Rakes. The teeth are fastened on spools, the seat is adjustable and fastened on springs. It is made in the most substantial manner, and of the best material. Price, \$23.00.

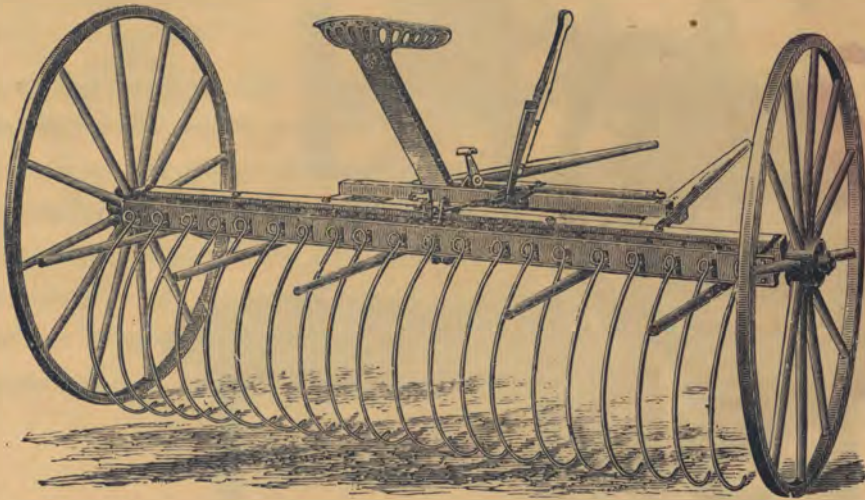
For Further Information call on or address J. BACHMAN, KEMPTON, PA.



The Taylor No. 4, Combined Hand and Self-Dump Rake is greatly renowned in all countries because it has the least intricate parts, simplest in construction of all Self-Dump Rakes.

In a Self-Dump Rake an apparatus is needed that will always dump the Rake when you want to dump—not be dumping when you want to be raking.

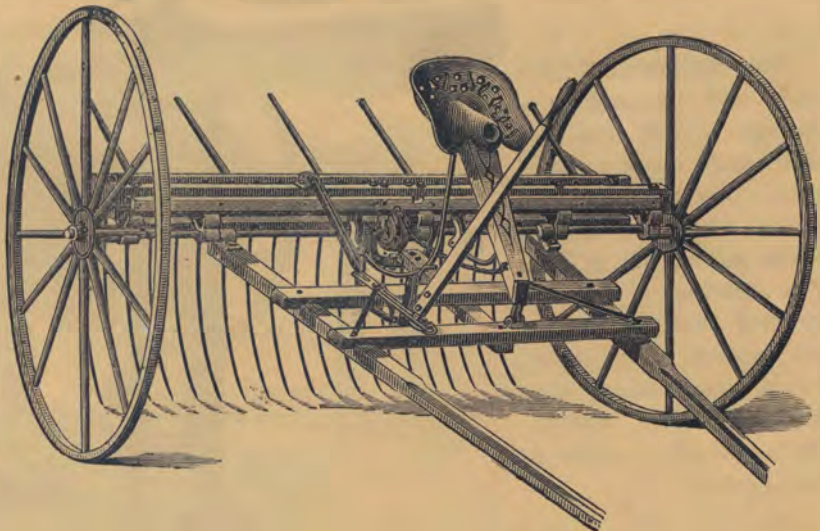
Price, \$24.00



The Tiger Rake has given universal satisfaction wherever sold. It is a Self and Hand-Dump Rake combined. The Dumping Device is equal to others. The Rake is made of good material and is warranted. Price, \$24.00.

THE ROYAL SELF-DUMP RAKE.

This Rake, in the Hand Dumping Device, is the same as the Thomas, except it has a stationary or loose lever for the purpose that when dumping with the horse it cannot hit the driver. The Rake has a solid and continuously steel axle, the dumping device being placed in the centre, hence it dumps from both wheels. The ratch wheel is encased so that nothing can come in contact with it. In this rake the driver's weight is effectively used to prevent the heavy falling back of teeth while dumping with the horse. Price,



\$23.00.

For Further Information call on or address J. BACHMAN, KEMPTON, PA.

THE CHIEFTAIN No. 5 RAKE.

This Rake is very light in construction, though substantial. The teeth are of the independent pattern and can adjust themselves to the unevenness of the ground. They are made of the finest Spring Steel, tempered in oil; it also has a spring seat, hence it is a very easy riding Rake. Price, \$18.00.

Red Bird Hay Rake,

\$18 50

Favorite,

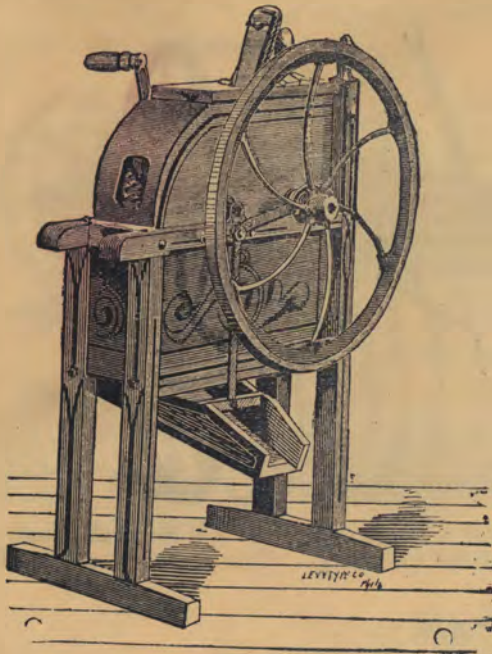
18 00

Columbia,

17 00

Coates,

16 00

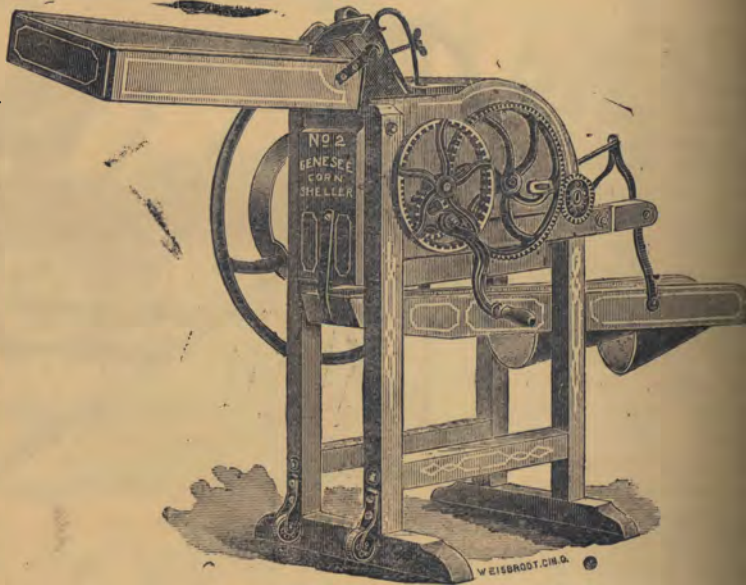
CORN SHELLERS.**No. 3 SINGLE SPOUT CORN SHELLER WITH SCREEN.**

This Sheller is so arranged that we can attach a small screen or shaker, which is not stationary, but is caused to vibrate with an angle iron connected to the fly wheel on which there is an eccentric. By this device the corn and cobs are discharged separately—the cobs coming out in the rear and the corn falling on the shaker, by which it can be cleaned, ready for market.

Price, \$10.25

Feed Table, extra, 1.25

This Sheller runs very easy and by means of springs adapts itself to thin and thick cobbled corn. The boxes are cast in one, which prevents the shafts getting out of line. The gearing is so constructed that you cannot get injured. The capacity is equal to any other Sheller. Price, \$18.00. Have also other makes at lower prices.

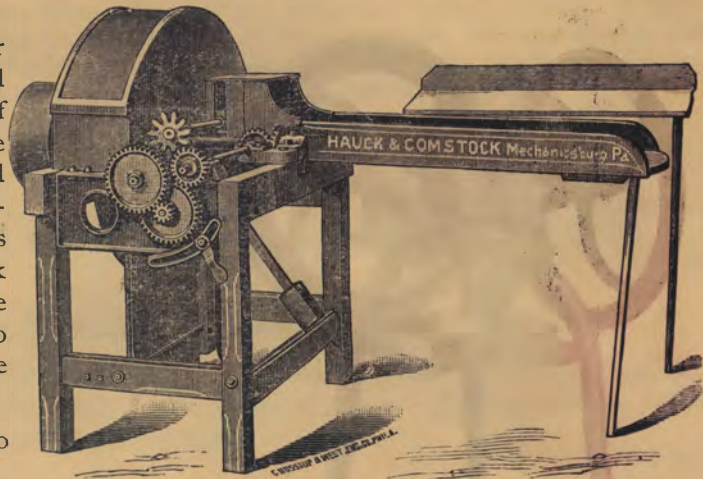


For Further Information call on or address J. BACHMAN, KEMPTON, PA.

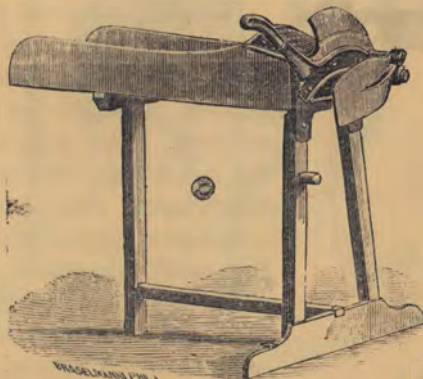
FEED CUTTERS.

The No. 2 Lion Feed Cutter with Crusher is considered by all users to be the best machine of its kind for the purpose. The crusher plate is adjustable and can be removed entirely for cutting hay or straw. Two knives are securely bolted to a disk wheel, which also does the crushing. The steel bar is also adjustable. This Cutter can be run by hand power.

Price, \$35.00



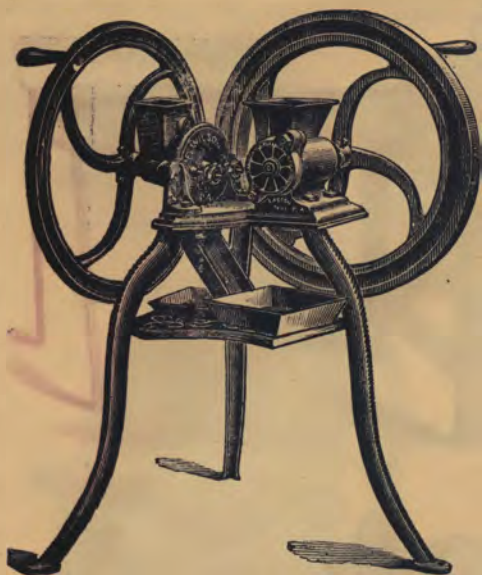
The Handy Hay and Straw Cutter is superior to any lever cutter made, and for simplicity, durability and ease of operation, combined with ease in handling, it has no equal in this or any other country. Price, \$4.50.



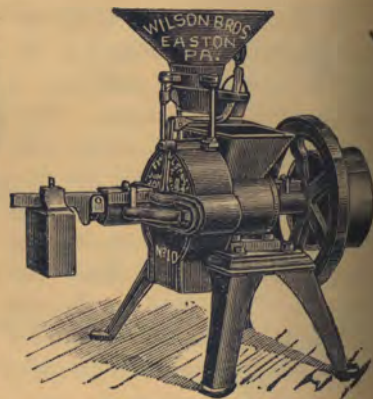
The Columbia Hand Lever Hay Cutter is made with either curved or straight knife. Price, \$4.50.

For Further Information call on or address J. BACHMAN, KEMPTON, PA.

BONE MILLS.



No 1, and No. 1 Green Bone Mill, Combined. Anything at all, that is to be ground, can be ground with either one or the other of these mills. The No. 1 has a sieve and each mill has a pan. Price, \$22.50.



The Wilson No. 10 Bone Mill grinds raw, green or dry bones, &c.

20 Horse-Power is required to drive it. Price, \$350.00.



IMPROVED No. 3 FARM MILL.

Price, \$50.00. Weight about 300 pounds. Power Required, from 2 to 4 Horse Power.

Regular size pulley, 8 inches in diameter. We furnish a 15-inch pulley when desired. Speed of mill from 600 to 700 revolutions per minute.

This mill will grind green bones direct from the butcher, dry bones, greasy bones, corn and cob and grain. Capacity on bones, from 600 to 1000 pounds per day. Capacity on grain, from 5 to 12 bushels per hour. This mill contains two sets of burrs. The first breaks the bones to about the size of corn grains, after which they are taken out and the second ones put in, which grinds them into meal. The shafts are made of steel and the burrs of chilled iron, and are put together in sections, so that when a part is worn it can be duplicated at a small cost. A special set of burrs for grinding grain goes with each mill.

For Further Information call on or address J. BACHMAN, KEMPTON, PA.



The Poulter's No. 1 Mill for grinding dry bones, shells, grain and many other substances for poultry. Two 7-16 by 3 1-2 bolts are needed to hold it fast to a bench or plank. A sieve attachment is furnished to this mill, so that when crushing shells, to take out the dust and when cracking corn to separate the meal.

Price of Mill, \$4.50.
Price of Sieve, extra,60

The Oriole Farm Grist Mill, No. 2 1/2, for grain only, requires 2 Horse-Power.

Price, \$25.00
No. 3 Farm Mill requires 4 Horse-Power, grinds grain and bones, and is furnished with 2 sets Burrs. Price, \$50.00



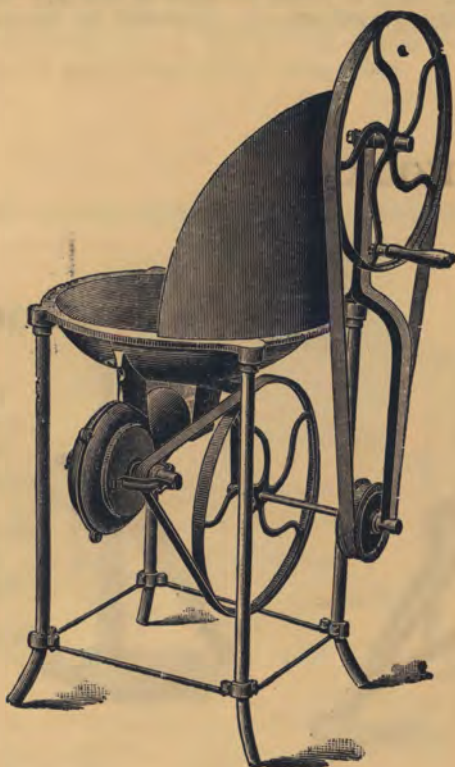
THE BUCKEYE SENIOR CIDER PRESS

The Buckeye Senior Cider Press stands without a rival for durability and effective work. The Junior Buckeye is very well adapted for making small quantities of cider, frequently.

Price of Senior Mill, \$22.00.
Price of Junior Mill, 15.00.

❖❖❖ FORGES. ❖❖❖

THE No. 5 CRANK FORGE FOR FARMERS' USE.



Simple in construction, works easily and produces a regular and strong blast. These forges are also built for blacksmiths' use, with either crank or lever motion, open, half or closed hoods. The above cut shows a half hood forge.

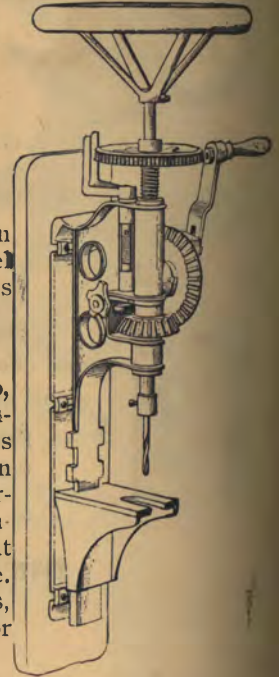
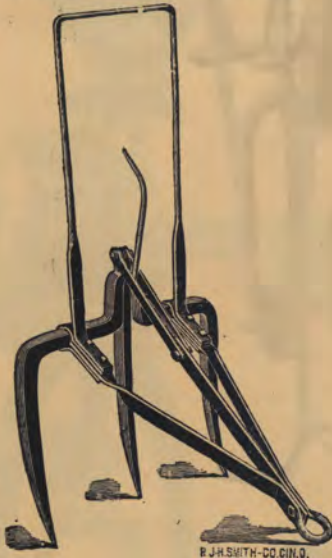
For Further Information call on or address J. BACHMAN, KEMPTON, PA.

UPRIGHT SELF-FEEDING DRILLING MACHINE.**WITH BALL BEARING COLLAR. TO BE FASTENED TO A POST.**

Drills to center of 12 inches.
 Takes drills from 1-8 to 3-4 and even larger.
 Hole in spindle, 1-2 inch in diameter.
 Length, 44 inches.
 Weight, 100 Pounds.
 Price, like cut, \$16.

The friction caused by drilling is less on this machine than any other, as the pressure is carried by a number of hardened Steel Balls, placed between two hardened Steel Collars and drilling is done more rapidly and with much less power.

The feed can be instantly varied from nothing to one, two, three, four or five notches of the ratchet feed wheel to one revolution of the Spindle. We believe this is a feature peculiar to this Drill and one of great value. The feed stops automatically when at lowest point, thus saving breakage liable to result from "over-feeding." When so desired, the self-feed can be thrown out instantly and hand used instead. This Drill was designed and built to meet the demand for a heavy and durable Drill at a low price. We do not claim that this Drill is equal to some of the \$75 ones, but claim that it is a far better Drill than is furnished by others for anything like the price.

**MANURE HOOK.**

This article is indispensable on a farm. It is made very strong and is easily handled.

WAGON JACKS.

The Leader Wagon Jack is made in two sizes, Nos. 1 and 2.

It is readily adjusted to any required height, is convenient for the lightest buggy, but will raise the heaviest wagon. No. 1, Heavy Jack; No. 2, Light Jack.

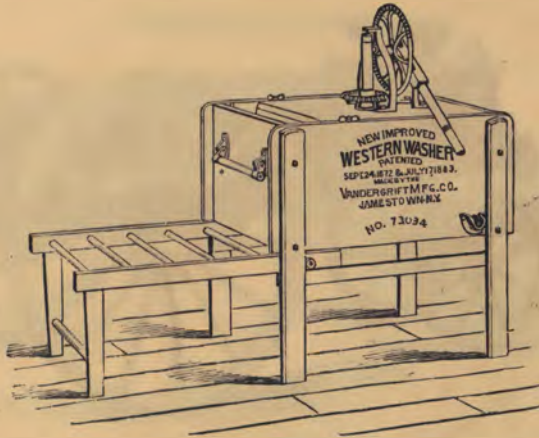
Price, No. 1,	\$2 50
" No. 2,	\$1 50

For Further Information call on or address J. BACHMAN, KEMPTON, PA.

WASHING MACHINES.**THE STAR WASHING MACHINE.**

The Star Washing Machine is sold on its merits. For completeness in work, easy running and convenience it cannot be excelled. It washes by agitation and suction. The agitator shaft is wood and is adjustable, so that no iron comes in contact with the wash to rust or injure it. It is made of good material and warranted.

Price, \$8.50

NEW IMPROVED WESTERN WASHER.

Sold on its Merits.

Guaranteed to give Satisfaction.

The New Improved Western Washing Machine is the best machine ever offered to the public, and wherever sold gives universal satisfaction.

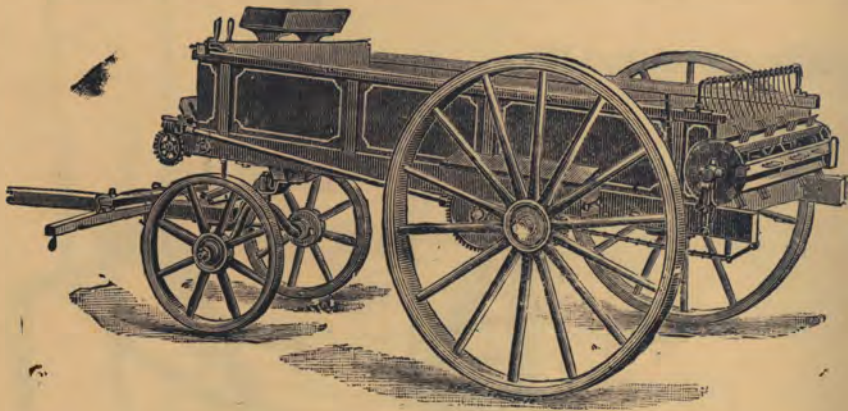
IT IS TRULY THE HOUSEKEEPER'S FRIEND.

Three Sizes are made: No. 1 for Family of Six; No. 2 for Large Family; No. 3 for Hotel or Laundry Use.

For Further Information call on or address J. BACHMAN, KEMPTON, PA.

BELTING.

I handle none but the best grades of Leather Belting, Oak Tanned and any width. Gum or Rubber Belting, any width, 2, 3 and 4 Ply, as desired. Write for prices, stating width, which will be lower than elsewhere.

KEMP'S MANURE AND LIME SPREADER.

The Kemp's Manure and Lime Spreader spreads it evenly. It is operated by one man and two horses.

It is made of good material and thoroughly tested.

For Further Information call on or address J. BACHMAN, KEMPTON, PA.

ROAD CARTS.

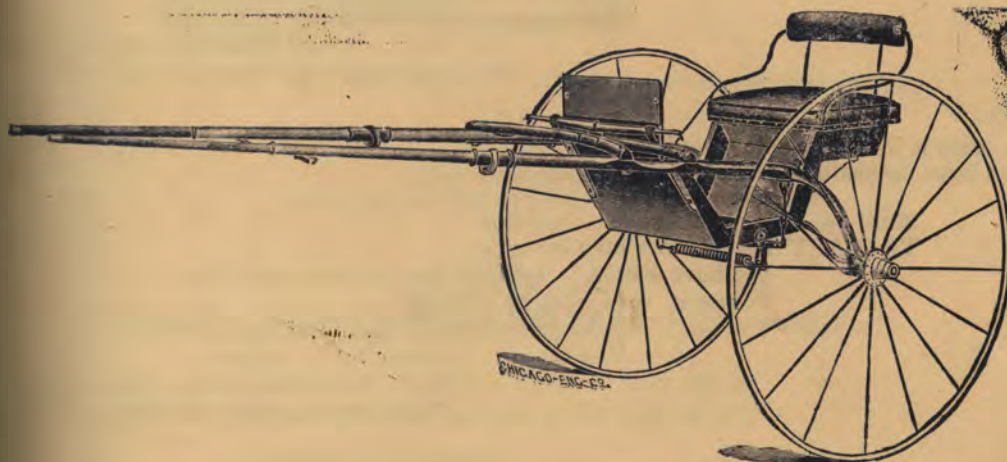
CHAMPION STEEL CARTS.



For riding qualities, perfect balance, ease of adjustment and quality of material used, the Champion Steel Cart is unsurpassed by anything made.

With single continuous Spiral Spring. Price, \$21.50

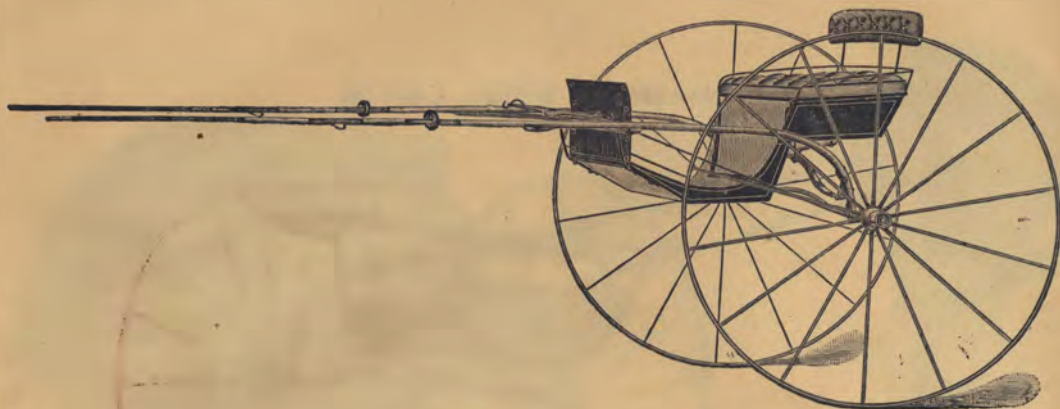
CHAMPION PHAETON.



Stick Seat, Closed or Bed Bottom. With Single Continuous Spiral Spring, \$24.00

For Further Information call on or address J. BACHMAN, KEMPTON, PA.

THE BLUE RIBBON, NO. 1.



THE "BLUE RIBBON."

A Cart with **SOFT** and **EASY SPRING**

Is very nice, and just the thing.

But if it's **PAINTED** in **FINE STYLE**

It ought to make the rider smile.

A **GRACEFUL** Cart will catch the eye

Of nearly every passer-by.

The **CUT** above is not a sham,

But shows our Cart up—as it am.

The **SEAT** is wide enough for two ;

The **CUSHION** made of Corduroy Blue.

A **DASH** of wood

Is very good.

Lift up the seat, a **BOX** you find,

Which seems to be about the kind

That everybody has in mind.

A basswood **BODY**, dry and light,

With **GLUE** and **SCREW** is very tight.

We add a **ROCKERPLATE** or two,

Which seems about the thing to do.

The Cart is braced with **BANDS** of **STEEL**,

So Comfortable and easy feel.

The price is low—the sale so quick,

None have occasion to feel sick. (Unless they fail to secure
the agency for the best and cheapest Cart on earth.)

Hold on—We most forgot to mention

The **LAZY BACK**, our own invention.

We have **BROAD PATENTS**, and none need try

To use it, save from us they buy.

It looks so **LIGHT** and works so **NEAT**,

You'll say, "It never could be beat."

Don't buy a tub—cheap trash don't pay,
Take comfort while on earth you stay.

You will avoid mishaps and enjoy life by riding the Blue Ribbon and Champion
Carts.

For Further Information call on or address J. BACHMAN, KEMPTON, PA.

ASPINWALL POTATO CUTTER.



"Another finger cut" is almost a daily cry at planting time. Can not be avoided either if you use a knife. Think of your sore, bleeding fingers, and then get an Aspinwall Potato Cutter. Pays for itself the first day it is used, and saves your fingers and temper.

It is necessary to cut a potato in equal shapes, carefully preserving the eyes, to give the best results. This is just what our Potato Cutter does.

This machine is well adapted for cutting up beets, turnips or other small roots. The cost is so small you cannot afford to be without one.

Price, \$10.00

CORN PLANTERS.

SPANGLER CORN PLANTER.

THE DAISY WHEELBARROW.



This Barrow is made very light for boys and will be found very substantial.

Price, \$5.50.

PLOWS.

THE NEW IMPROVED PRINCESS LEVEL LAND PLOW.

2 " 36 " 1 " 18 "

sown direct to corn or in front of boot and m

r, which gives the operator a full view of the

r, Fertilizer Attachment,

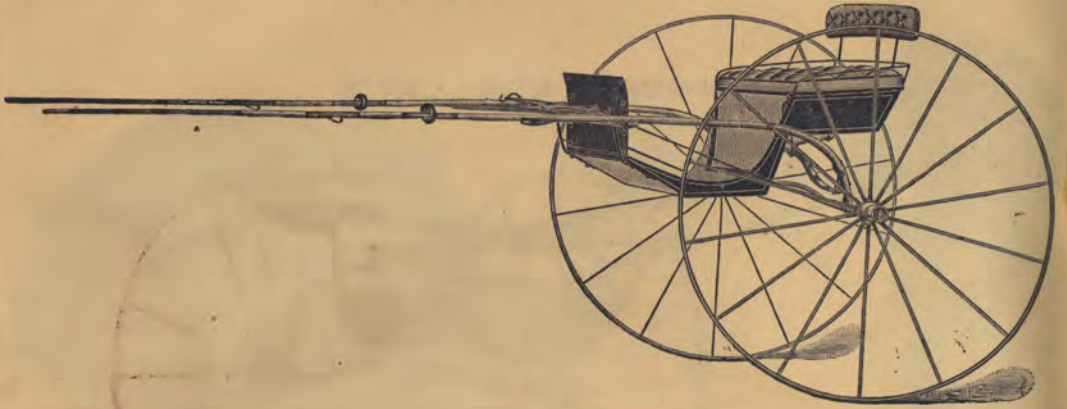
Plain,

Price, Princess comp information call on or address J. BACHMAN, . . . \$13.50.

For Further Info

MPTON, PA.

THE BLUE RIBBON, NO. 1.



THE "BLUE RIBBON."

A Cart with SOFT and EASY SPRING

Is very nice, and just the thing.

But if it's PAINTED in FINE STYLE

It ought to make the rider smile.

A GRACEFUL Cart will catch the eye

Of nearly every passer-by.

The CUT above is not a sham.

No. 115, Light two-horse.

No. 116, Heavy " "

Price Complete, No. 116, \$14.00

THE SYRACUSE SWIVEL.



The Syracuse Swivel Plow is simple, convenient and built of good material. It can be furnished with or without Jointer and Wheel. It is also made with the new adjustable Clevis. Price Complete, \$13.00

PRICE LIST OF PLOWS.

No. 115 Wiard Swivel	IT LOOKS SO LIGHT AND EASY	\$12.50
No. 25 " Level	You'll say, "It never could be beat	12.50
No. 40 Oliver Chilled	Don't buy a tub—ch	12.50
Wiard One-horse Plow	Take comfort while	8.50
Jointer for any Plow,		2.00
Adjustable Clevis for		1.00
Wheel for any Plow		.60
Various other n		
Plow Shares an		

For further information call on or address J. BACHMAN, K

For Further

N, KEMPTON, PA.

ASPINWALL POTATO CUTTER.



"Another finger cut" is almost a daily cry at planting time. Can not be avoided either if you use a knife. Think of your sore, bleeding fingers, and then get an Aspinwall Potato Cutter. Pays for itself the first day it is used, and saves your fingers and temper.

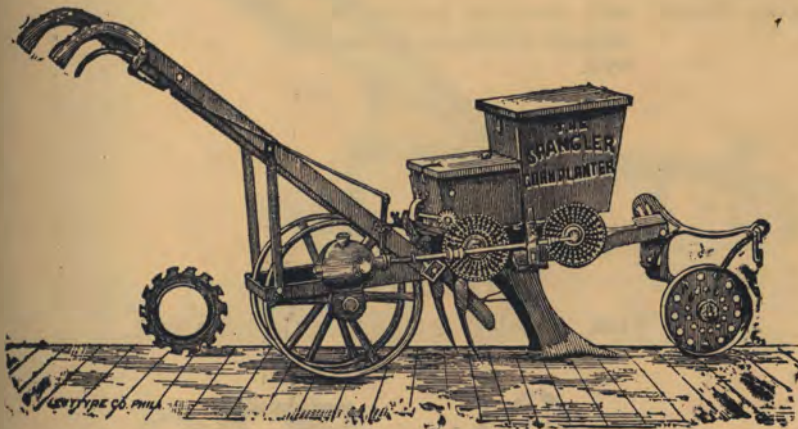
It is necessary to cut a potato in equal shapes, carefully preserving the eyes, to give the best results. This is just what our Potato Cutter does.

This machine is well adapted for cutting up beets, turnips or other small roots. The cost is so small you cannot afford to be without one.

Price, \$10.00

CORN PLANTERS.

SPANGLER CORN PLANTER.



This Planter cannot be excelled for changing quickly. With the least trouble the various distances to plant corn and quantity of fertilizers can be altered.

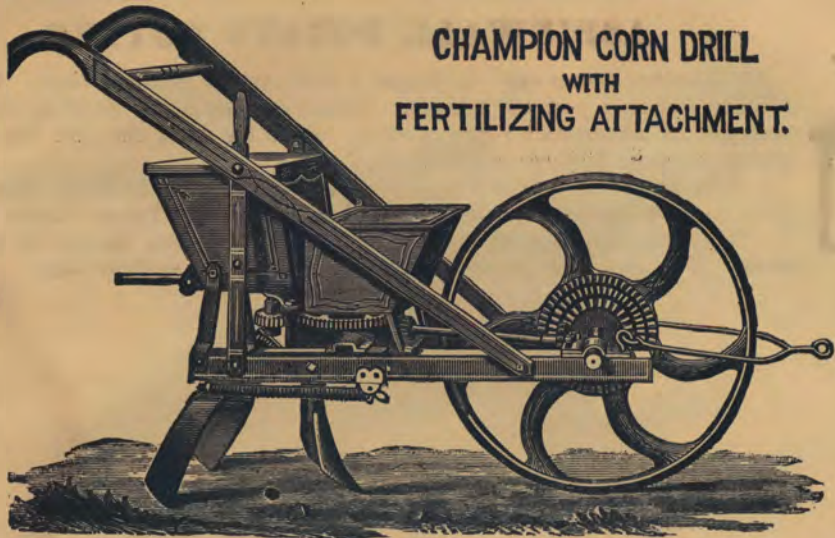
The Planter can be regulated to drop corn as follows:

2 grains 20 inches,		1 grain 10 inches.	
2	" 24	1	" 12
2	" 30	1	" 15
2	" 36	1	" 18

Fertilizer can be sown direct to corn or in front of boot and mixed with the soil. The corn box is in the rear, which gives the operator a full view of the corn dropping device.

Spangler Corn Planter, Fertilizer Attachment, \$18.00
 " " " Plain, 15.00

For Further Information call on or address J. BACHMAN, KEMPTON, PA.



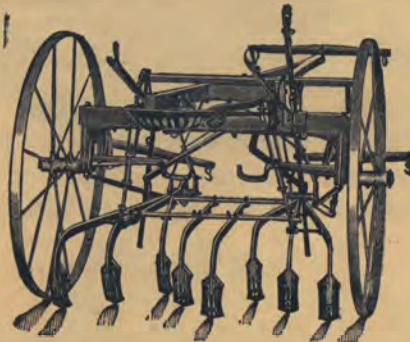
This is a very cheap Planter considering its compactness and durability. It is made either with or without Fertilizer Attachment. The Foot is in a spring so that when it strikes an obstruction it cannot break anything.

PRICE LIST OF CORN PLANTERS.

Champion, with Fertilizer Attachment,	.	.	.	.	.	.	.	.	\$17 00
" without "	"	"	"	"	"	"	"	"	14.00
Columbia Corn Planter, with Fertilizer Attachment,	.	.	.	.	.	.	.	.	17.00
" " " without Fertilizer Attachment,	.	.	.	.	.	.	.	.	14.00
Root " " with " "	.	.	.	.	.	.	.	.	17.50

CULTIVATORS.

THE KRAUS SULKY CULTIVATOR.



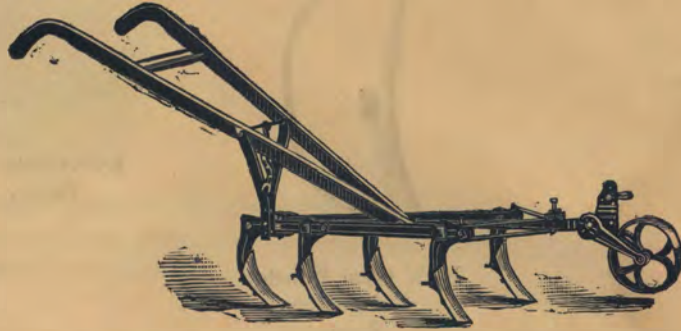
The Kraus Sulky Cultivator, the lightest draft and simplest adjustment, is easiest operated and does the best work by a mere foot pressure on the levers; the shovels will move simultaneously with the wheels, thus enabling the operator to dodge obstructions or weeds instantly. For working on hill sides it cannot be equalled. Send for special circular.

Price, \$35.00

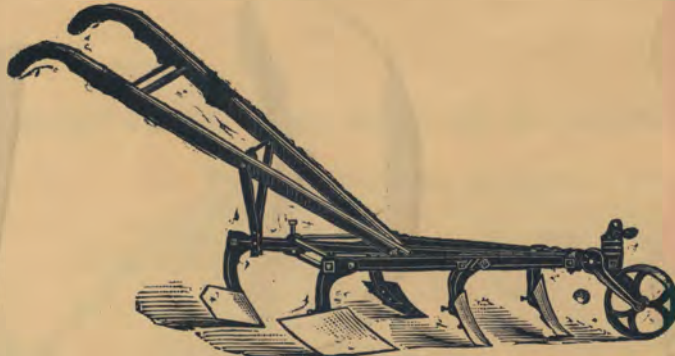
For Further Information call on or address J. BACHMAN, KEMPTON, PA.

THE COMMON-SENSE CULTIVATOR AND HORSE HOE.

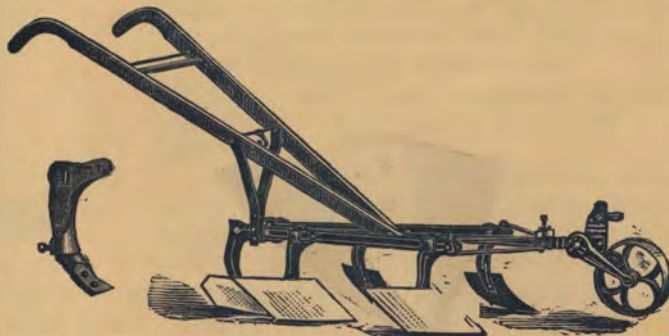
The Common Sense Reversible Combined Cultivator and Horse-Hoe is constructed upon sound common sense principles, embracing important new features, and differs from all cultivators both in principle of construction and mode of operation, being more complete in adjustability and much more effective when in operation. This Cultivator can be used in five different ways and for many more purposes.



The Common Sense as a Plain Cultivator with frame reversed, (wide end forward) used with or without wheel. Can be changed into single or double Horse Hoe.
 Price, \$5.00.



The Common Sense as an old-style Horse-Hoe (with narrow end forward.) Unequalled for accuracy of adjustment and efficiency of operation. All teeth and blades reversible. Hilling blades can be set for deep or shallow cultivation, and at any angle desired.
 Price, \$6.25



The Common Sense as a double Horse-Hoe with four scraper blades attached (wide end of frame forward.) Unrivalled for finishing and cultivating row crops. This Cultivator can be changed into an ordinary Horse Hoe or plain Cultivator, with either wide or narrow end forward. Price, \$7.50

For Further Information call on or address J. BACHMAN, KEMPTON, PA.

CULTIVATOR POINTS, Etc.

Price of Cultivator Points for one horse, 15 cents.

The prices of Furrowing Blades, Sweeps and Hook Plow Points vary according to size.



Oval Pointed
Cultivator
Point.



Half Oval Pointed
Cultivator
Point.



Reversible Steel Cultivator
Point. Small Size.



Reversible Steel
Cultivator Point.
Large Size.



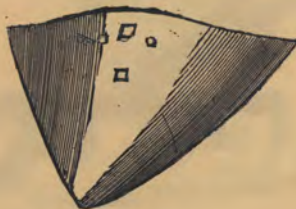
Oval Pointed Re-
versible Cultivator
Point.



Medium Size Hook
Plow Point.



Large Size
Furrowing Blade.

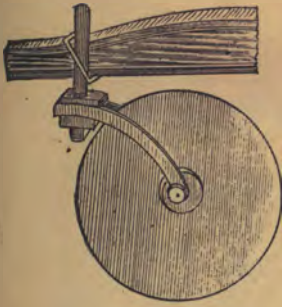


Large Size Hook
Plow Point.



Narrow Winged
Furrowing Blade.

For Further Information call on or address J. BACHMAN, KEMPTON, PA.



This Rolling Coulter is made of solid tempered steel and fits any plow. Price of 10 inch Coulter Complete, \$3.75.



Wide Winged Furrowing Blade.

CHAMPION FORCE PUMP AND FIRE EXTINGUISHER.



(Pat. Aug. 29, '82)

It has no suction hose, as the Pump sets in the water, thus securing perfect suction. The weight, when boxed for shipment, is 8 pounds.

Price, Galvanized Iron, \$3.00; Brass, \$4.00.

We do not Recommend this Pump for Spraying Large Orchards.

This cut illustrates our Portable Force Pump, which, combining as it does, the efficiency and durability of the higher priced Pumps on the market, is offered at a price which places it within the reach of all.

Being made of either brass or galvanized iron, with WHITE METAL TOP AND BASE, it will not rust or corrode. It is capable of throwing from 8 to 10 gallons per minute to the distance of 50 feet.

For washing windows, carriages, verandas, boats, etc., it has no equal.

By simply adjusting the Sprinkler, which goes with each Pump, it is adapted for spraying gardens, lawns, etc.; also for throwing liquid solutions of all kinds to destroy noxious insects on plants, vines or small trees.

It can also be used successfully for controlling swarms of bees when in the air, and is an ever-ready syringe for horses and cattle.

With this pump there is furnished two feet of $\frac{1}{2}$ inch discharge hose, and a tin nozzle and sprayer. It can be furnished with additional hose and with any of our spraying nozzles, when desired, at additional price.

For Further Information call on or address J. BACHMAN, KEMPTON, PA.

CELEAR GRATES.



These Grates are among the most economical and pleasing inventions before the public. It is a Grate and Sash hung on one hinge in a frame—all of cast iron—ready to be walled into the wall. The Sash and Grate can both be opened for putting down coal, etc.

This Grate should be examined by all contemplating to build a house or any kind of a building where a grate is needed. Every Creamery building should be provided with these Grates. It is one of the most convenient, durable and complete arrangements ever invented for the purpose.

For Further Information call on or address J. BACHMAN, KEMPTON, PA.

Outside Frame in Inches.	Glass Light in Inches.	No. of Lights.	Price.
12½ by 15½	9¾ by 12	1	\$1 25
13 by 28½	8 by 10	3	2 40
16 by 23	9 by 13	2	2 40
16 by 23	9 by 13	2	2 20
16 by 31	9 by 13	3	3 20
20 by 28½	12 by 16	2	3 20
17½ by 30	8 by 13	3	4 00
13 by 20½	8 by 10	2	1 60

8 by 10	Common	2	Light Sash Grate,	.	.	.	.	.	.	\$1 20
8 by 10	"	3	" " "	.	.	.	.	.	.	1 60
9 by 13	"	2	" " "	.	.	.	.	.	.	1 60
9 by 13	"	3	" " "	.	.	.	.	.	.	2.00



DIRECTIONS FOR PUTTING UP PORTER'S STEEL TRACK.

You will then place fish plates on the end which will couple the pieces of the Track. They will hold the joints together perfectly, much better than any clamp coupling yet invented. Use stove bolts which you will find with goods, which you should rivet after they are screwed to place. Now slide the hang hook right under the rafter and fasten the rafter-brackets to the rafter. To prevent the Carrier from running off, bolt the bumper, which goes with each Carrier, to one end of Track. On opposite end let track butt against a cross piece nailed on rafters.

There should be a hang hook placed at a distance of every two or three feet on the Track. When the Track is put up in this way it will work perfectly. String Carrier the same as for wood track. See that all working parts are oiled and kept oiled, or they will wear out.

For Further Information call on or address J. BACHMAN, KEMPTON, PA.



Six Inch Maple
Sheave Pulley.



Knob
Passing
Pulley.

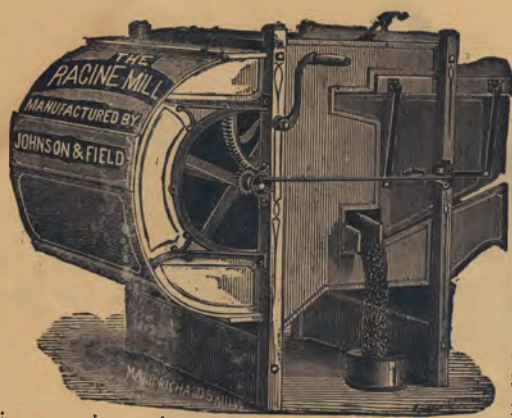


Wood
Frame
Pulley.



Floor
Hook.

In connection with Porter's Steel Track and Carriage, I have also the Deadlock Carriage and Steel Track, the latter is in two parts, viz. Track. Have also Carriages for on Wood Tracks.



This Fanning Mill is built on the latest style and is substantial in every way. The Hopper Slide for regulating the feed is done by means of a screw, being very convenient.

For cleaning and separating all kinds of grain this Mill is to be equal, and, in fact, superior in all respects to any other Mill. The side spout delivers the No. 1 grain at the side and the No. 2 grain at the front of the Mill. The Wheat screens and grader are so arranged as to effectually take out cockle, chess, or cheat, from No. 1 and No. 2 Wheat. It has also special arrangements for cleaning Clover, Timothy Seed, &c. Have other Fanning Mills that are more specially adapted for cleaning out of chaff,

in 3 various sizes. Price of main size, \$26.00.

PRICE LIST.

No. 1 Farm Mill, Sieves 24 inches wide,		\$22.50
No. 2 Farm Mill, Sieves 30 inches wide,		32.00
Each Mill is furnished with one Wheat Hurdle, one Wheat Screen and Grader with Side Spout, one Barley Sieve, and one Oat and Corn Sieve.		
Width of No. 1, 2 feet 8 inches over all.		
Width of No. 2, 3 feet 2 inches over all.		
Height of Mills, 3 feet 5 inches.		
Capacity for cleaning per hour :	No. 1, 60 to 90 bushels ; No. 2, 100 to 125 bushels.	

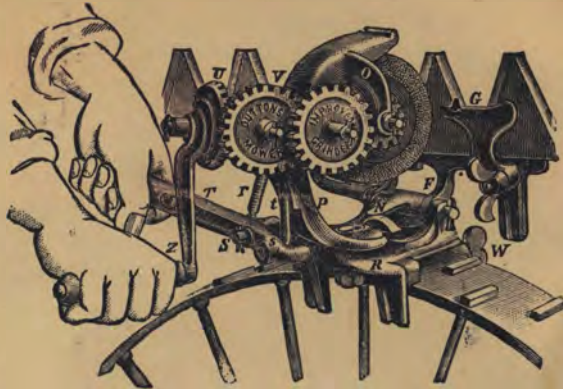
EXTRAS.

WHEAT AND BARLEY HURDLES.

All Wire, each,	No. 1.	No. 2.
All Wire, Spout attached, each,	\$4.00	\$5.00
With Top Sieve of Zinc, additional,	5.00	6.00
	1.00	1.25

For Further Information call on or address J. BACHMAN, KEMPTON, PA.

THE U. S. GRINDER.



The most complete and efficient Mowing Machine Knife Grinder made. Small, light, weighs only 13 lbs. Can be carried into the field and attached to any Mowing Machine wheel. It grinds a true Bevel. Price, \$5.00.

SEED SOWERS.



SOUTH BEND No. 2.

This is a light and durable machine. It is carried in front and weighs but six pounds. The sack will hold a half bushel. The slide is agitated by the distributor; the seed scale is on the left hand side of the box to regulate opening for any desired amount; the distributor is operated by a crank wheel on side, driving it in one direction; it is a regular easy motion, one turn of the crank at every step. This machine we will guarantee to sow all kinds of seed broadcast in a perfect and satisfactory manner—it will never throw to one side or bunch it. Land plaster and all kinds of fertilizers can be sown with this machine.

It does not throw the seed in the air to be drifted by every little gust of wind, as other rotary machines do, but throws it directly and evenly to the ground. We look on this machine as being the very best of its class. Price, \$2.75.



SOUTH BEND No. 3.

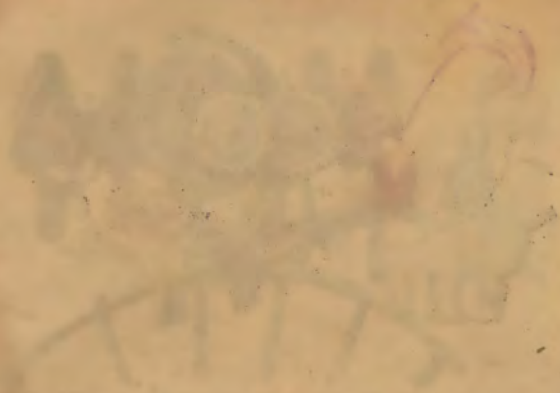
This is a very light machine, weighing but three pounds, is carried over the shoulder by a strap; the sack will hold a half bushel; there is a slide that works over an opening in the bottom of the hopper, which is continually agitated by the distributor. This prevents clogging, and insures an even and regular flow of seed on the distributor. The opening is regulated by a seed scale on side of box; the distributor is operated by a bow, one full stroke at every step; it is a regular motion, and comes perfectly natural with the easy swing of the arm. It is well made, handsomely finished, and we will guarantee this machine to give perfect satisfaction, with any kind of grain, sowing broadcast.

PRICE.

Steel Bow,	.	.	.	.	\$2.25
Wood Bow,	.	.	.	.	2.00

For Further Information call on or address J. BACHMAN, KEMPTON, PA.

THE U. S. CALENDAR



SHIRAZ BOWERS



THE U. S. CALENDAR
PUBLISHED BY THE U. S. GOVERNMENT
WASHINGTON, D. C.
1880

SHIRAZ BOWERS
PUBLISHED BY THE U. S. GOVERNMENT
WASHINGTON, D. C.
1880

THE U. S. CALENDAR
PUBLISHED BY THE U. S. GOVERNMENT
WASHINGTON, D. C.
1880

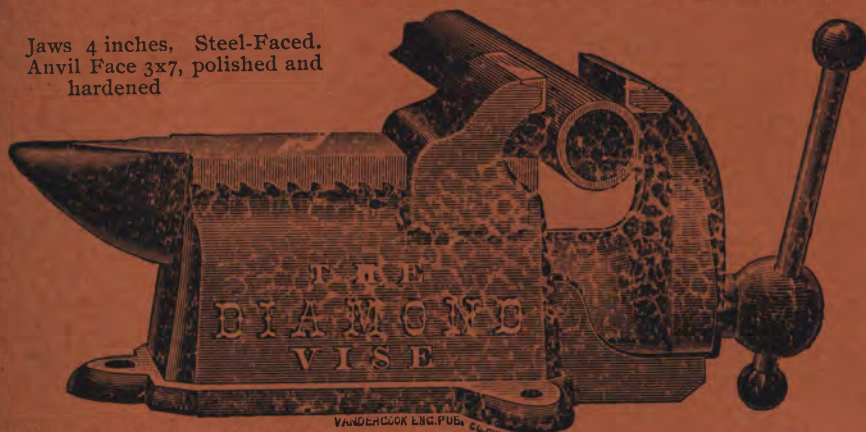
SHIRAZ BOWERS
PUBLISHED BY THE U. S. GOVERNMENT
WASHINGTON, D. C.
1880

THE :- DIAMOND :- DRILL.

MACHINISTS' VISE, PIPE VISE AND DRILL.

Well Finished. Suitable for first class Machine shop. Just the thing for Factory or Farm. Will hold work no other Vise Can.

Jaws 4 inches, Steel-Faced.
Anvil Face 3x7, polished and
hardened



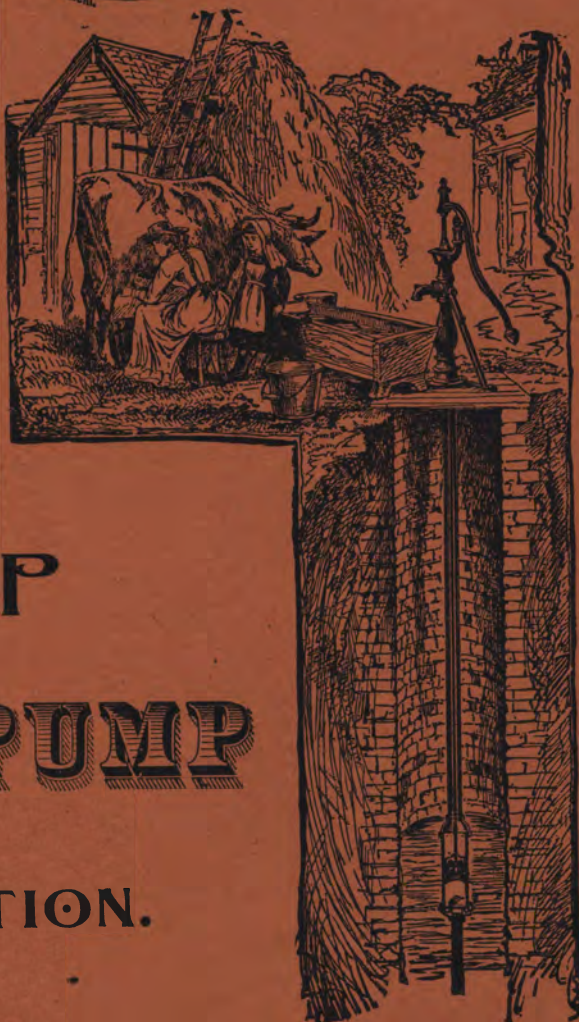
TO HOLD PIPE—Move small jaw back one notch. Three sharp jaws 4 inches long, clamps pipe up to 2 inches more securely than any other vise.

Small jaws can be removed or set at any position. Will extend to hold work up to 12 inches.

Vise with drilling attachments. Will take square shank drills up to $\frac{3}{4}$ inches.

Price, Anvil & Vise \$5.00.

With Drilling Attachments,
\$7.50.



DEEP WELL PUMP

IN OPERATION.

This is only a partial list. If you want anything not shown in this catalogue, please call or write. Information and circulars will be cheerfully furnished.

**THIS CUT SHOWS A
HYDRAULIC RAM IN OPERATION**
forcing the water into a trough or tank near or in the Building.



I shall be pleased to give you prices on anything you want not shown in this catalogue, on application. Try me and see what I can furnish you in the line of the most approved Implements, Machinery or Creamery and Dairy Supplies.