

32.

Agricultural Implements



The H. D. Deuscher Co.

Hamilton, Ohio, U. S. A.

Members of the National Association of
Manufacturers, United States of America

Cable Address

"DASHER," HAMILTON, OHIO

Codes

A. B. C. AND LIEBERS



Henry P. Deuscher

Born, May 24th, 1829
Died, January 20th, 1903

RULES OF BUSINESS

ALL PREVIOUS CATALOGUES AND PRICE LISTS
ARE SUPERSEDED BY THIS ISSUE

Warranty. We warrant goods only against breakage caused by defects in material or workmanship.

Quotations. All prices and quotations are subject to change without notice. All prices quoted are for goods at factory, unless otherwise agreed upon.

Insurance. We do not insure river or ocean shipments unless specially instructed in each order. Insurance, when authorized, will be charged in invoice at current rates.

Shipper's Responsibility. A clear shipping receipt for goods relieves us of all responsibility and places it with the carriers. In no instance is the payment subject to the arrival of goods at destination. Claims for loss and damaged goods should be made against the carriers.

Terms. No goods furnished on commission. All bills payable with exchange on Cincinnati or New York. Express remittances must be prepaid. Notes required in settlement for all time sales. All past due accounts subject to interest from maturity at legal rates. Sight drafts will be drawn for all unpaid accounts as they fall due.

Interest charged on all accounts or notes after maturity.

When orders are received which are not explicit we will use our best judgment in filling them, but will not be held responsible for error.

Do not return any goods without our consent, when such consent has been obtained, mark the goods plainly so that we can tell at once who they are from.

Claims for shortage must be made within five days after receipt of goods.

We will replace all defective parts by sending new ones to take their places.

In case of shortage, or if goods are not received in good condition, have same marked on freight or express bill by railroad agent, before you receive the goods.

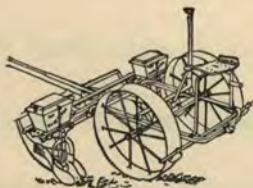
CORN PLANTERS

Two row or double Corn Planters always plant two rows at a time in one operation.

Used as a **Hand Dropper** it requires two persons to operate it, one to drive the team and the other (generally a boy) to operate the dropper. The machine used in this manner drops the corn in hills, 2, 3, or more kernels in a place, any desired distance apart. Three set of plates are furnished to accommodate different sizes of seed corn.

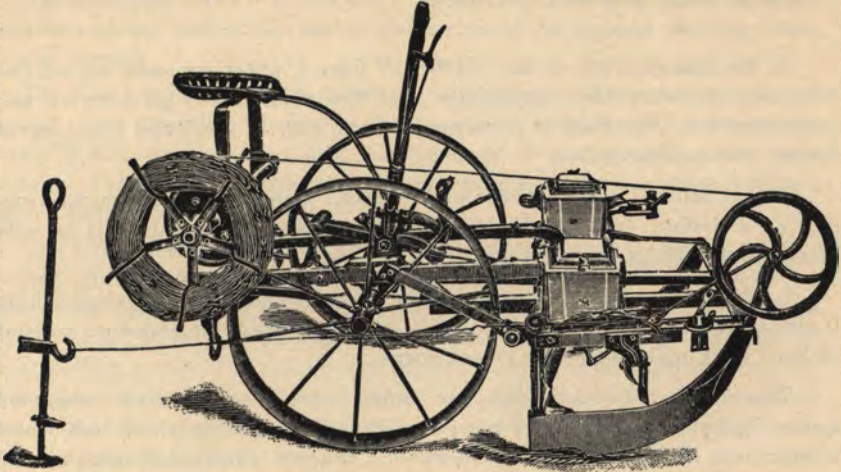
Used as a **Driller** it requires only one person to operate, to drive the team. It works automatically by chain which is driven from axle, and drops one grain 12, 16 or 20 inches apart as may be desired. We can furnish plates and fittings so that it can be made to drop anywhere from 4 to 48 inches apart and almost any amount of seed. Not only will the machine plant corn but it will also plant beans, peas, broom corn, or other small seeds in almost any desired quantity and at almost any distance.

Used as a **Check-Rower** only one person is required for operating. The dropping is done automatically by means of a wire chain being stretched across the field, and which wire has knots at certain distances apart which catch in steel forks and work the lever thereby operating the dropping device. Used in this manner the machine will drop from 2 to 4 kernels in a hill, and we can furnish the wire having buttons 3 ft. 2 in., 3 ft. 4 in., 3 ft. 6 in., 3 ft. 8 in., 3 ft. 10 in., or 4 ft. apart, so that the corn can be planted either of those distances. With each Check-Rower machine we furnish 80 rods of wire which is annealed, has double strength, and the buttons are formed by a knot in the wire which cannot unravel or become loose. The 80 rods of wire are jointed with an open link every ten rod distance. By planting corn with the Check-Rower the corn can be cultivated or plowed in both directions, and it can be kept much cleaner than if planted in any other way, as it is planted in a straight line and there are no crooked rows for the Cultivator to contend with.



The "IDEAL" Corn-Planter

Showing Check-Rower and Automatic Wire-Reel Attached



This is a Combined Hand Dropper, Driller and Check-Rower Corn Planter, but we can furnish it as a

Hand Dropper only, or
Hand Dropper and Driller, or
Hand Dropper and Check-Rower, or
Driller only, or
Driller and Check-Rower.

It is furnished with concave wheels 30 inches high, the rims 6 inches wide, but we can also furnish flat wheels or open wheels on order. We can also furnish concave wheels 36 inches high on order.

The wheels can be set to run on or off the seed row which is a very desirable feature.

We build three sizes, and each size is susceptible to two widths, viz:

The Narrow is adjustable to 3 ft. 4 in. and 3 ft. 6 inches.

The Standard is adjustable to 3 ft. 6 in. and 3 ft. 8 inches.

The Wide is adjustable to 3 ft. 8 in. and 3 ft. 10 inches.

TELEGRAPH CODE	PRICE.
BABEL—Ideal Planter, 3 ft. 4 in. to 3 ft. 6 in. Less Check-Rower. \$.....	
BABOON—Ideal Planter, 3 ft. 6 in. to 3 ft. 8 in. Less Check-Rower.	
BACHELOR—Ideal Planter, 3 ft. 8 in. to 3 ft. 10 in. Less Check-Rower.	
BACKWARD—Ideal Planter, 3 ft. 4 in. to 3 ft. 6 in. With Check-Rower and Wire.	
BADGE—Ideal Planter, 3 ft. 6 in. to 3 ft. 8 in. With Check-Rower and wire.	
BAFFLE—Ideal Planter, 3 ft. 8 in. to 3 ft. 10 in. With Check-Rower and wire.	

Use code on page 13 for length of wire between buttons.

If Clod Fenders and Covering Hoes are wanted, then add the word "Fenders" to telegram.

If Furrow Openers are wanted, then add the word "Openers" to telegram.

“IDEAL” CORN PLANTER

In the manufacture of the “IDEAL” Corn Planter we make use of two box rails, knowing from experience that the planter will give better and longer service. The planter is constructed entirely of steel and iron, except tongue and marker pole.

It is a full-hill combination Corn Planter. Can be used as a hand-dropper, as a driller, or as a check-rower. To make the alteration it is only necessary to change the seed plates.

In the construction of the frame we use angle steel $1\frac{1}{2} \times 1\frac{1}{2} \times \frac{1}{4}$, making it strong and tough and well braced so that it can stand an immense amount of hard work without getting out of shape.

The wheels, 30 inches high, are built extra strong, with staggered spokes $\frac{3}{8}$ inches, cannot break nor give down. We can furnish 36 inch wheel if required. We make flat tire wheels, solid concave wheels, and open wheels. When not otherwise mentioned in order then we always send solid concave wheels, 30 inches high.

The axle is solid steel, $1\frac{1}{2}$ inch diameter, strong enough to carry any weight that can be piled on planter.

All castings that are not malleable are made of the toughest charcoal iron, are well braced and heavy so that the danger of breakage is reduced to a minimum. Each piece is carefully examined before it is put on machine.

The runners or shoes are made of the best quality oil tempered steel—with wide heel so the corn is not bunched.

Marker pole made of hickory wood, with heavy iron marker or shoe is furnished for marking the field by which to drive.

The Forcing Lever is attached to the two hounds which are placed at an equal distance from the runners, so that both runners are forced into the soil at an equal depth.

Combined Hand and Foot Lever is furnished, so that the planter can be rigidly set to desired depth, or can be run flexibly and under easy control of the driver's feet, allowing him the full use of his hands for taking care of team.

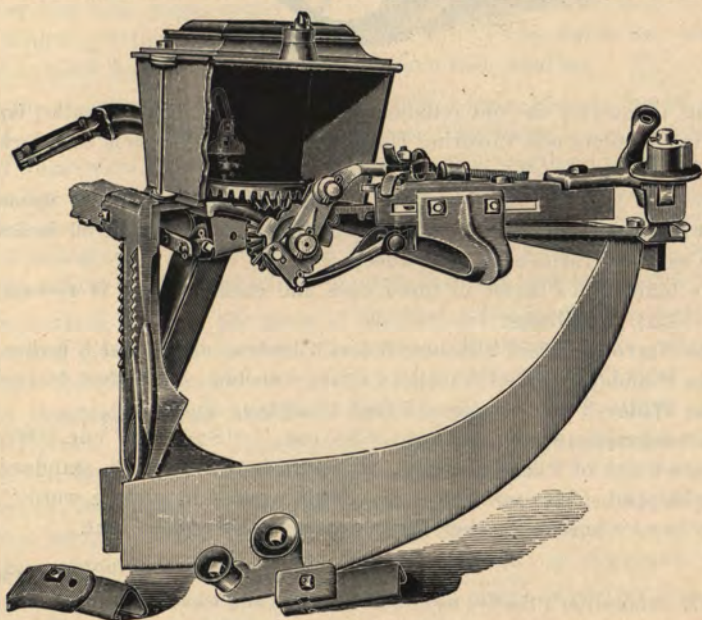
The Drill is adjustable to different distances by changing the chain on different sized sprocket wheels on rear axle. It will drop one grain every 12, 16 or 20 inches apart. Extra plates and fittings can be furnished to drop from 4 to 48 inches apart, any number of grains. We can also furnish plates to plant broom corn, peas, beans and other small seeds any required distance apart. Three set of plates are furnished for different size seed corn.

IDEAL CORN PLANTER

The Dropping Device is positive. Succeeding hills drop down separate channels and are held at the heel of runner ready for prompt planting when valve is opened.

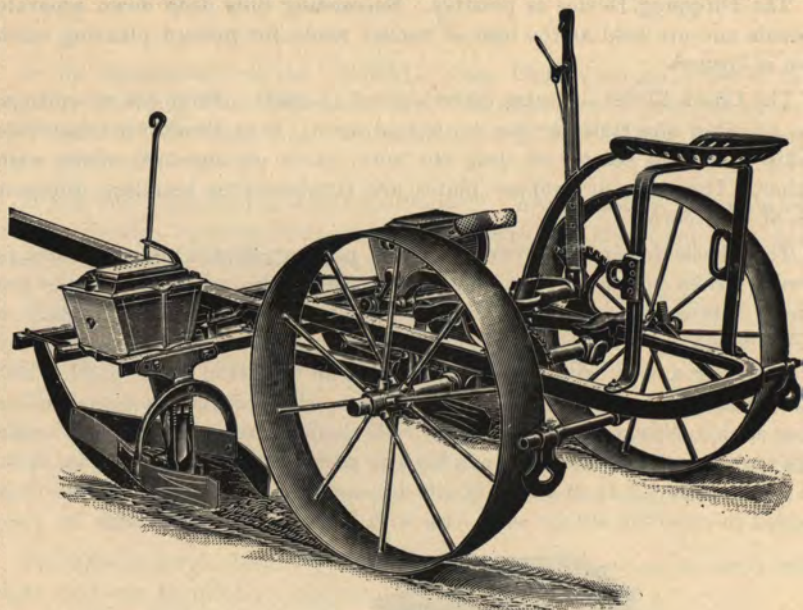
The Check-Rower operates direct on end of shaft. There are no springs, cams or other uncertain devices to depend upon. It is absolutely impossible to skip a hill, to scatter or drag the corn, or to get one hill mixed with another. Three set of dropper plates are furnished for handling different sizes of seed corn.

The Check-Rower is of very few parts, not complicated; one side always at rest; stroke positive every time button passes through fork. Forks are made of soft center steel, carefully hardened, and are wide enough apart to prevent kinks in wire from making a stroke. The wire can be released by driver pulling a cord, without leaving seat. The wire is of finest quality, and with ordinary care will last for many years. We furnish two anchors or stakes with each check-rower, and 80 rods double strength wire with triple knots that cannot unravel. We can furnish wire with buttons 3 ft. 2 in., 3 ft. 4 in., 3 ft. 6 in., 3 ft. 8 in., 3 ft. 10. in., and 4 ft. apart, but unless it is specified in order we always send wire with buttons 3 ft. 8 in. apart.



The above illustration shows the position of the "IDEAL" Check Rower just after the stroke is completed. Every part is in full view and easy of adjustment. It is absolutely impossible to miss a hill, to scatter or drag corn, or get one hill mixed with another.

The "HAMILTON" Corn Planter



This illustrates the old reliable "HAMILTON" Corn-Planter, equipped with Clod Fenders and Covering Hoes, and shows the wheels set to run over corn row.

We can furnish flat, open, or concave wheels—when not specified in order we always ship wheels with concave tire. Wheels are 30 inches high, but we can also furnish 36 inch wheels.

We build this Planter in three sizes and each machine is susceptible of three widths, as follows:

The Narrow—3 feet 2 inches; 3 feet 4 inches; and 3 feet 6 inches.

The Standard—3 feet 6 inches; 3 feet 8 inches; and 3 feet 10 inches.

The Wide—3 feet 8 inches; 3 feet 10 inches; and 4 feet.

In telegraphing add the word "Narrow," "Standard" or "Wide" to designate width of Planter wanted. If width is not specified, standard width will be shipped. Also mention style wheels wanted by adding word "Flat," "Open" or "Concave," otherwise concave wheels will be sent.

TELEGRAPH CODE.

PRICE.

ABDUCT—Hamilton Planter, less Clod Fenders and Covering Hoes. \$.....	
ABET—Hamilton Planter, with Covering Hoes and Clod Fenders. \$.....	
ABHOR—Hamilton Planter, less Clod Fenders and Covering Hoes, with Drill Attachment. \$.....	
ABILITY—Hamilton Planter, with Clod Fenders and Covering Hoes, with Drill Attachment. \$.....	

The "HAMILTON" Corn-Planter needs no introduction, it was made famous by the Adjustable Wheels, Clod Fenders and Covering Hoes, of which we are the inventors, and these attachments are worth more to the farmer than the price of an ordinary Corn-Planter.

The Adjustable Wheels can be set to run on or off the seed row. This one point may save you many dollars, for if the soil is wet and you do not have this splendid attachment the soil may bake and form a crust which will prevent a great deal of the corn from coming through.

The Covering Hoes are absolutely certain to cover the seed at a uniform depth. They can be depended upon with confidence, no matter what condition the soil may be in. These covering hoes also cultivate the seed rows, and thus give the farmer an opportunity to keep ahead of the weeds. These covering Hoes cover every hill and they cover at a uniform depth; they also work the ground and leave it in just the right condition for the cultivator to follow; and being so worked the cultivator will cover up less corn at the first plowing, and the corn will grow much more uniform.

The Clod Fenders push all stalks, stones and clods aside and allow only fine soil to cover the seed. The advantage and saving of this is obvious. They smooth the surface of the ground and the Covering Hoes bring the fine dirt over the hill, consequently the water drains from the seed to either side. Every practical farmer knows that corn from which the water is drained is more secure from rotting in unfavorable weather.

In the construction of the "HAMILTON" Corn Planter honest materials and good workmanship enter throughout. The frame is most substantial, made of angle steel $1\frac{1}{2} \times 1\frac{1}{2} \times \frac{1}{4}$ which gives great strength and neatness. We use two box rails which prevents Planter from becoming rickety, and while it makes the Planter weigh a little heavier, it makes the machine much stronger and gives it longer life. A "HAMILTON" Planter will outwear and outlast from two to four of the one rail Planters that are on the market.

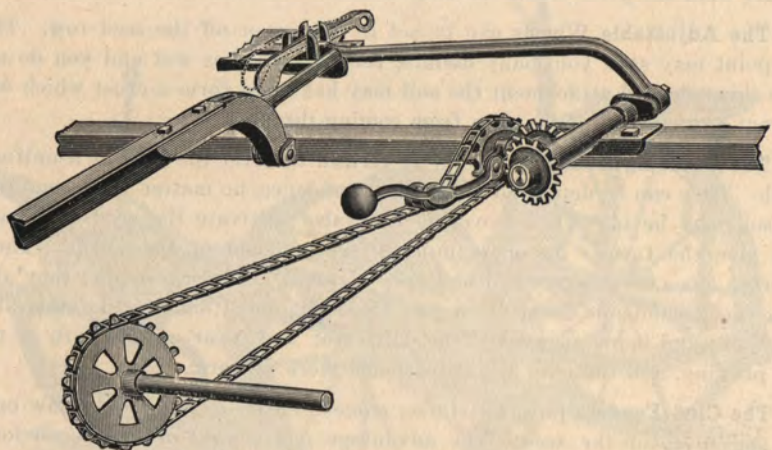
The runners or shoes are made of the best grade oil tempered steel, are full size and guaranteed to wear, the heels of the runners are wide which prevents corn from being bunched. The axle is $1\frac{1}{2}$ inch round steel.

The Combined Hand and Foot Lever is one of the features of the "HAMILTON" Planter. This arrangement makes it possible for the machine to run flexibly, and allows it to be easily controlled by the feet of the operator; or, the Planter can be rigidly set to the desired depth. When the Planter is being used as a Drill Planter, then the dropping device is thrown out of gear automatically when the runners are raised out of ground.

The Drop is slide motion with revolving seed plates, is perfect in mechanism and positive in its work.

Each "HAMILTON" Planter is furnished with Hand Dropper attachment and with three set of seed plates—each set having different size holes to accommodate large and small seed corn.

DRILL ATTACHMENT FOR THE "HAMILTON" CORN PLANTER



Can be used on no other Corn-Planter.

Will positively drop one grain in a place either 12, 16 or 20 inches apart; and we can furnish extra plates to plant 1 or more grains in hills, 24, 32 or 40 inches apart.

The Drill Attachment for the "HAMILTON" Corn-Planter is of few parts and positive action; nothing complicated about it. It can be attached to the Planter at any time; can be instantly thrown out of gear. It is driven by link chain belt from center of axle.

The principle of the Drill Attachment for the Wood and Steel frame "HAMILTON" Planters is the same, but they are not interchangeable; and therefore, in ordering, it will be necessary to use care, always mentioning whether it is wanted FOR WOOD OR STEEL FRAME PLANTER AND GIVE WIDTH OF MACHINE.

TELEGRAPH CODE.

ABJURE—Drill Attachment for Wood-frame Planter.

ABLE—Drill Attachment for Steel-frame Planter.

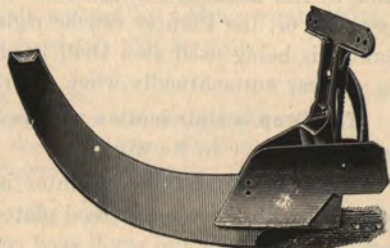
ABLEST—Drill Attachment for Planter with solid axle.

FURROW OPENERS

Attached to Runner or Shoe of Planter.

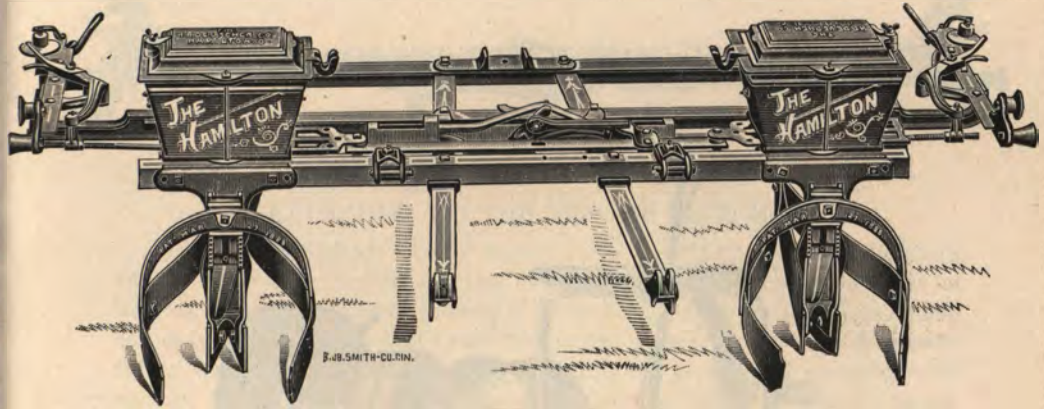
This illustrates our improved Furrow Opener. They do effective work in light soils, making a furrow about five inches deep by six inches wide.

They do not drag any trash or rubbish, and have small shovels, which are not seen in illustration, for covering the corn.



LOW-DOWN CHECK ROWER

USED ON THE "HAMILTON" CORN PLANTER



This illustration shows the "LOW-DOWN" Check-Rower attached to front section of Corn-Planter. (It also shows rear view of the Clod Fenders and Covering Hoes attached to planter.)

The Low-Down Check-Rower can be used only on the "HAMILTON" shown on page 9. It cannot be attached to any other machine. We have in our "Low-Down" a very simple Check-Rower and it can be worked by any farmer. We fasten the heads to the box rails and work the slide bars by means of push rods underneath seed boxes. The stroke is positive every time button passes through fork. In construction it is very simple; nothing complicated about it; has no parts that get out of working order. Forks are made of soft-center steel, hardened; they are wide enough apart to prevent kinks in the wire from making a stroke between hills. By a very simple mechanical device the wire is released by driver pulling a cord without leaving driver's seat.

We can also furnish our Automatic Reel which is one of the simplest and most effective. By its use the first row can be planted while laying out the wire, and it reels the wire when planting the last row. (See cut on page 12.)

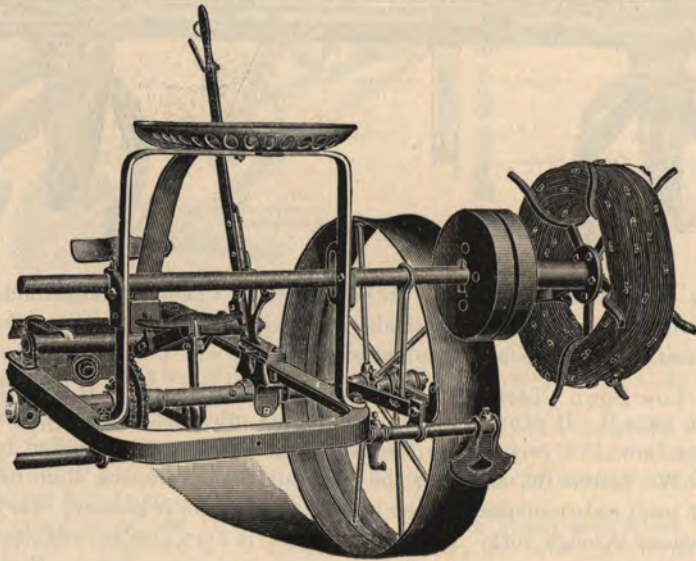
We can furnish wire with buttons from 3 ft. to 4 ft. apart. If not specified in order, then we always ship wire with buttons 3 ft. 8 inches apart. We use annealed wire, double strength with triple knots, warranted not to break and it cannot unravel.

TELEGRAPH CODE.

APPLE—Low-down Check-Rower for Hamilton Steel-Frame Planter, less wire.
 APPLE-PIE—Low-down Check-Rower for Hamilton Steel-frame Planter, with wire.

AUTOMATIC WIRE REEL

FOR "IDEAL" AND "HAMILTON" CHECK-ROWER PLANTERS



This illustrates a section of Corn-Planter with the Automatic reeling device attached.

The attachment is made of wrought and malleable iron, with wood friction wheel which comes in contact with the planter wheel—insuring positive action.

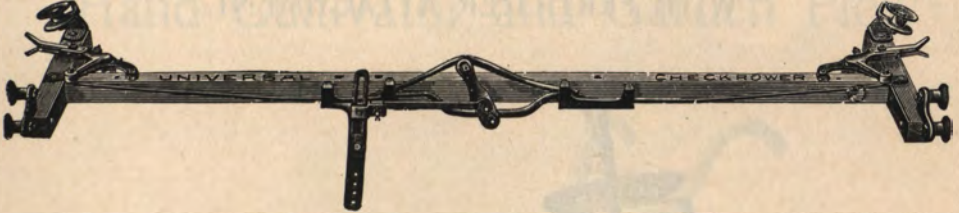
With this Reel the wire can be laid out while planting the first row, and when planting the last row the wire is wound up. Can be placed on either side of Corn-Planter and is under perfect control of the operator's feet.

TELEGRAPH CODE.

AUTO—AUTOMATIC wire reel.

The "Universal" Check-Rower

FOR USE ON THE OLD STYLE CORN PLANTERS



IS ATTACHED TO THE TOP OF SEED BOXES

The "**UNIVERSAL**" Check-Rower works on all standard Corn-Planters and is especially adapted for the old style Wood-frame machines. It is without exception the most successful cross-bar Check-rower made; so simple and easy of adjustment that every farmer can attach and operate it successfully. One side is always at rest. The cross-bar is made of second-growth hickory lumber. Soft-center steel forks are hardened to prevent wear. Charcoal iron and malleable castings reduce breakage to a minimum. Its work is accurate and positive. The driver without leaving seat releases the wire by simply pulling a cord.

In ordering always mention distance between buttons on wire wanted. If not specified we always ship wire to drop 3 feet 8 inches apart.

TELEGRAPH CODE FOR CHECK ROWER.

UGLY—Universal Check-Rower with 80 rods 3-4 wire.
 ULTIMATE—Universal Check-Rower with 80 rods 3-6 wire.
 ULTRA—Universal Check-Rower with 80 rods 3-8 wire.
 UMBRAGE—Universal Check-Rower with 80 rods 3-10 wire.
 UGLINESS—Universal Check-Rower with 80 rods 4-ft. wire.
 Universal Check-Rower, with 80 rods wire.
 80 rods wire on wood reel
 80 rods wire on iron reel.
 Wire in bundle, per rod.

PRICE.

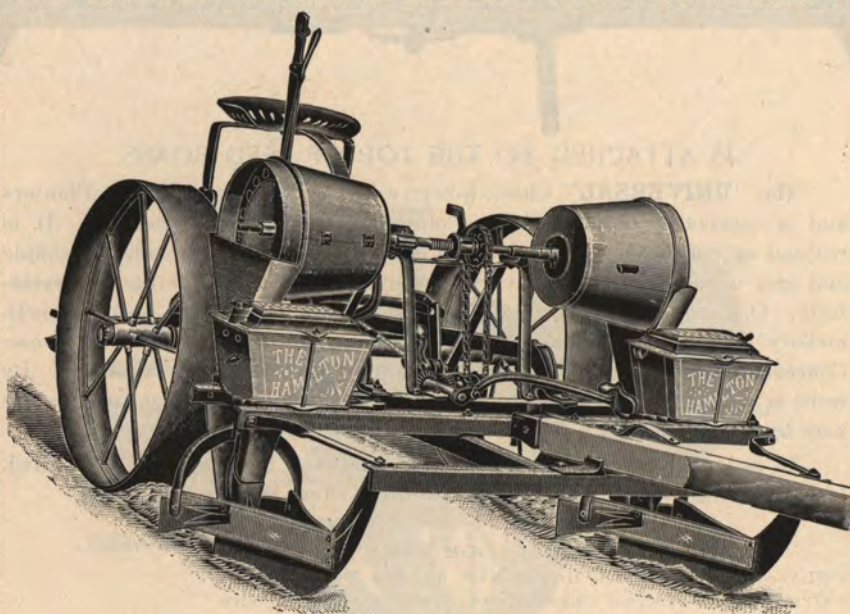
\$.....
 \$.....
 \$.....

TELEGRAPH CODE FOR WIRE.

BALCONY—80 rods Check-Rower Wire, 3 ft. 0 inches.
 BALEFUL—80 rods Check-Rower Wire, 3 ft. 2 inches.
 BALLAST—80 rods Check-Rower Wire, 3 ft. 4 inches.
 BALLOON—80 rods Check-Rower Wire, 3 feet 6 inches.
 BALSAM—80 rods Check-Rower Wire, 3 feet 8 inches.
 BAMBOO—80 rods Check-Rower Wire, 3 feet 10 inches.
 BANANA—80 rods Check-Rower Wire, 4 feet 0 inches.
 BANDAGE—10 rods Check-Rower Wire, 3 feet 4 inches.
 BANDIT—20 rods Check-Rower Wire, 3 feet 4 inches.
 BANISH—10 rods Check-Rower Wire, 3 feet 6 inches.
 BANNER—20 rods Check-Rower Wire, 3 feet 6 inches.
 BANQUET—10 rods Check-Rower Wire, 3 feet 8 inches.
 BANTAM—20 rods Check-Rower Wire, 3 feet 8 inches.
 BAREFOOT—One pound of Connecting Links.

The "HAMILTON" Corn Planter

WITH FERTILIZER ATTACHMENT.



This is the same machine as shown on page 8, with Fertilizer attachment in position.

The Fertilizer Attachment will distribute almost any kind of fertilizer or phosphate, wet or dry, fine or lumpy. It is equipped with adjustable spout so that the fertilizer can be dropped before the hill, with the corn, or just back of the hill, as may be wanted. The hoppers are made of heavy galvanized iron, the kind that will not rust. We do not hesitate to guarantee this to be a most successful fertilizer distributor for Corn-Planter. It can be regulated to drop any desired quantity. It can be worked successfully with planter operated as Hand Dropper, Driller or Cheek-Rower.

TELEGRAPH CODE.

PRICE.

BARGE—Standard Fertilizer.

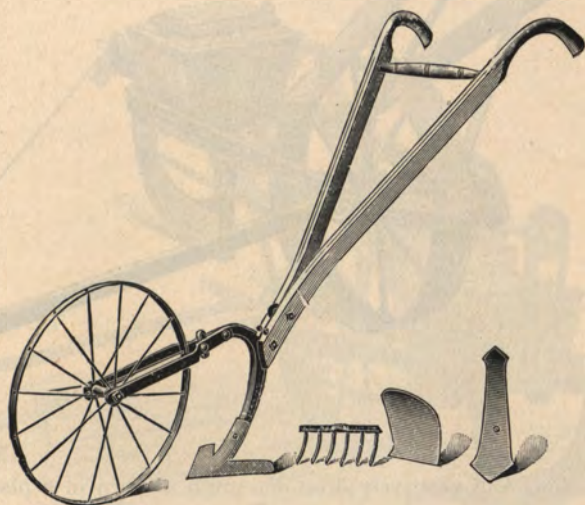
\$.....

BRAHMIN—Narrow Fertilizer.

\$.....

THE "IDEAL"

Hand Cultivator and Garden Plow



The handiest and most useful tool for the garden. Handles are made of good, tough hickory wood; wheel of wrought iron, well proportioned and heavily galvanized; shovel shapes are of steel; rake is made of malleable iron; finished in first-class manner.

With each machine we furnish one mould board shovel, one stirring shovel, one surface shovel or weeder, one rake and one wrench. It is adjustable to deep or shallow cultivation.

Weights only 20 pounds, is easily handled and will last a life time.

TELEGRAPH CODE.

PRICE.

JUNIPER—Garden Plow Complete.

\$.....

“EXCELSIOR” STEEL FRAME CORN DRILL



This machine will positively drop one grain of corn in a place 12, 16 or 24 inches apart. The distance is gauged by different seed plates. With each machine we furnish three plates to drop different distances apart, and we also furnish three plates to accommodate different size seed corn. Plates can be furnished that will plant any distance from 2 inches to 4 ft. apart. We can also furnish plates for planting cowpeas, beans, broom corn, sorghum, garden seed and other small seeds almost any distance apart, and the cost is a very small item.

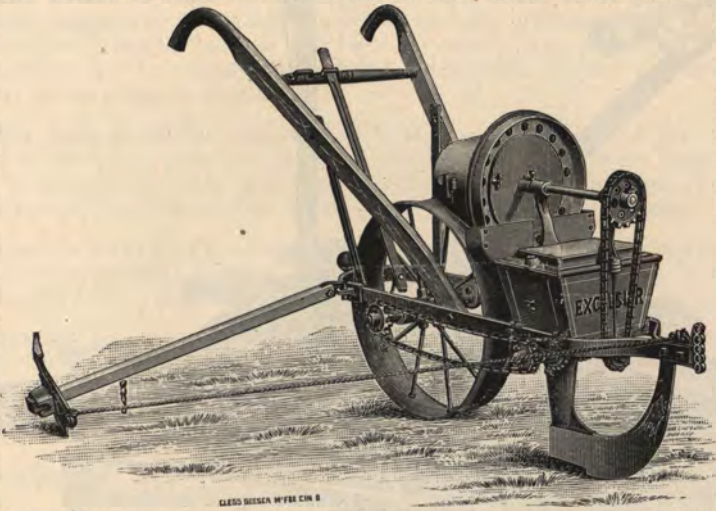
The frame is steel. The wheel is wrought iron, concave, 20 inches high, with extraordinary strong spokes so that the wheel cannot break nor get out of shape. The hopper or seed box is of iron and equipped with iron lid. The runner or shoe is made of the best quality steel, well tempered and will last for many years. The handles are best quality of oak wood. This Drill is equipped with our improved marker which lays out and marks the rows. The marker pole is made of hickory lumber. All wearing parts of the Drill are large and strong and there are no parts about the machine that will easily get out of working order. It can be thrown in or out of gear without stopping the horse.

TELEGRAPH CODE.

EXCELSIOR—One Steel Frame Corn Drill.

\$.....

"EXCELSIOR" STEEL-FRAME CORN DRILL



WITH FERTILIZER ATTACHMENT

The Fertilizer Attachment is perfect and simple. The hopper is made of galvanized iron that will not rust, there are no slides, valves or wheels to clog or gum up. It distributes the fertilizer on top of hill or in rear of hill just as you may want, it can be regulated to drop any desired quantity and it works well with any and all kinds of commercial fertilizer.

TELEGRAPH CODE.

PRICE.

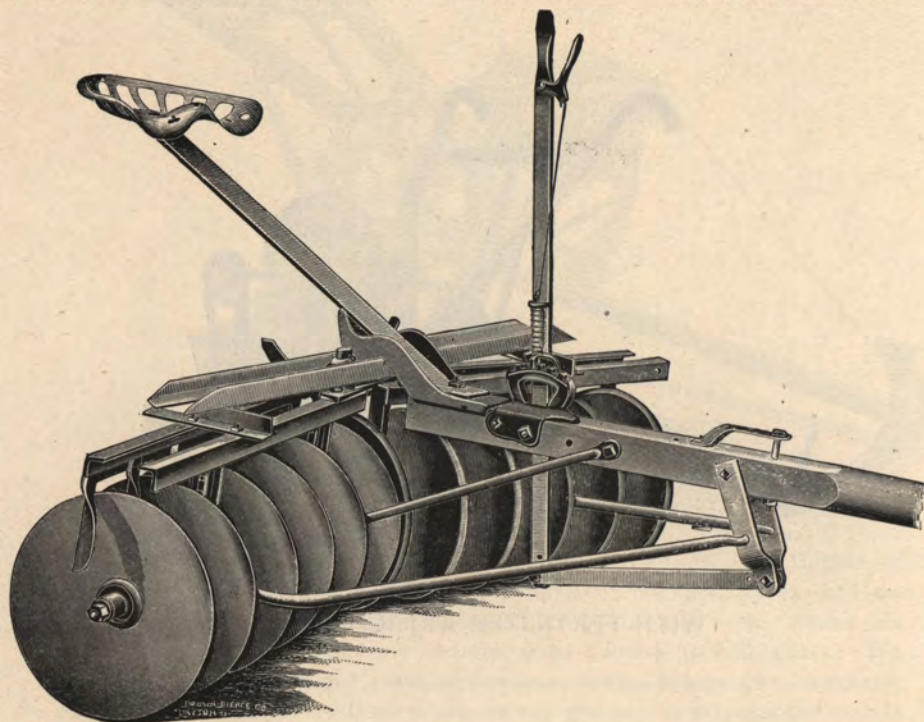
EUREKA—One Steel Frame Corn Drill with Fertilizer.

\$.....

The "HAMILTON" Disc Harrow

SINGLE LEVER—STEEL FRAME.

FURNISHED WITH TWO-THREE-OR-FOUR-HORSE HITCH.



TELEGRAPH CODE.

PRICE.

BASELY—One Disc Harrow, eight 16-inch discs.	\$.....
BASELESS—One Disc Harrow, ten 16-inch discs.	\$.....
BASEMENT—One Disc Harrow, twelve 16-inch discs.	\$.....
BASHFUL—One Disc Harrow, fourteen 16-inch discs.	\$.....
BASTARD—One Disc Harrow, sixteen 16-inch discs.	\$.....
BEARDED—One Disc Harrow, ten 18-inch discs.	\$.....
BEARDING—One Disc Harrow, twelve 18-inch discs.	\$.....
BEARDLESS—One Disc Harrow, fourteen 18-inch discs.	\$.....
BASHFULLY—One Disc Harrow, ten 20-inch discs.	\$.....
BASIL—One Disc Harrow, twelve 20-inch discs.	\$.....
BASSOON—One Disc Harrow, fourteen 20-inch discs.	\$.....

In the construction of the "HAMILTON" Disc Harrow the utmost care is exercised to the end that no inferior piece of iron or steel is made use of. Every bar and piece is carefully examined, and frequent tests are made to see that the proper strength is contained in the steel and iron used, so that each and every purchaser of a "HAMILTON" Disc Harrow may feel assured that the machine contains first-class material and is honestly built from start to finish. (Our guarantee to replace free of all costs or expenses, any defective part of the implement, is conscientiously lived up to and sacredly kept.)

The Frame is made of $1\frac{1}{2} \times 1\frac{1}{2} \times 3-16$ inch angle steel, possessing the requisite strength to withstand any strain that the implement may be put to. We could use a lighter bar and still have the harrow strong enough for nearly all purposes, but we started out to build a first-class tool and strong enough so that no breakage is possible.

The Axles or Shafts are made of $\frac{3}{4}$ inch square steel, and every one is tested before being placed in the machine. The Discs or Blades have square holes to accommodate the axle, and the spools have square holes, so that it forms a solid piece, impossible for the discs to get loose on the axle.

There is no draft from the frame. The draft is entirely from the axles, four draft rods being attached directly in front of boxing. The frame has only to carry the weight of the driver and rear end of pole.

Boxings are made on correct principles and make the machine light draft. They are made in three parts, easy to adjust, and dirt or dust cannot accumulate in them. There is no wear on the boxings at the end, because we allow the gangs to come together at any angle with all pressure against the Buffer Washers, and not bearing on the boxings.

Nothing but the very best materials are used in construction. The **Discs** are made especially for us, are oil tempered, and will outwear any other on the market.

In placing the gangs at an angle, by means of lever, the outer ends are carried forward, allowing the center to remain buffeted close together and leaving practically no uncut ridge in center.

The Driver sits comfortably in rear of the machine, and the work that is being done is at all times in his view. The lever to control depth of cut is right in his reach and under easy control. The weight of driver is the balancing power and removes all neck weight from the team.

Two, three or four horse equalizers furnished, as ordered.

No shifting of tongue when using three horses with our three-horse equalizer.

We guarantee no side draft or neck weight.

All our Disc Harrows are furnished with a steel standard, which is so made as to place the driver in a natural position, and to get his weight on the Harrow to the best advantage.

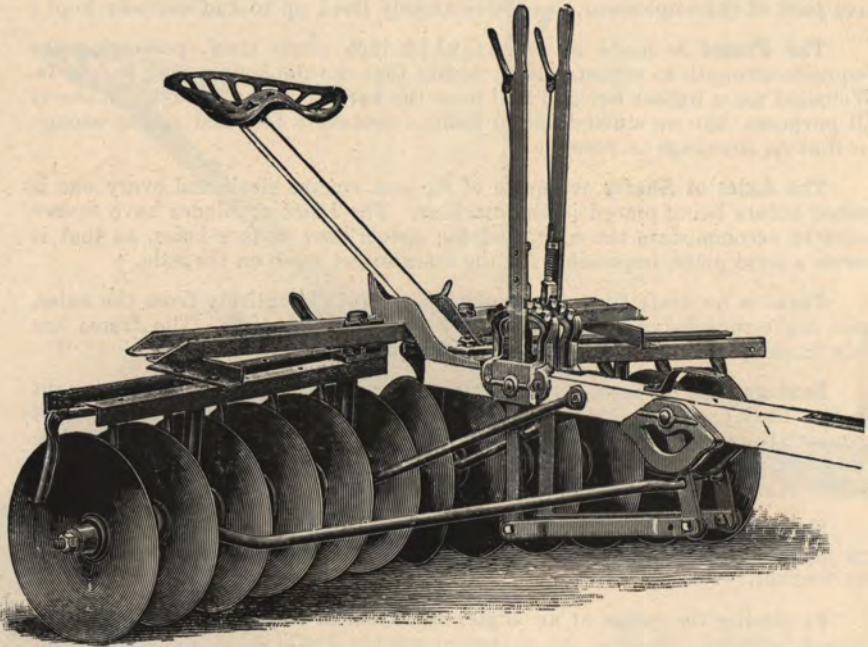
The Stands are only required to carry the weight of the frame and driver, hence there is much less wear than where the pressure is direct on the journals.

The Spools between the discs are interchangeable, either of which can be used for the box journal.

The "HAMILTON" Disc Harrow

DOUBLE LEVER—STEEL FRAME

FURNISHED WITH TWO-THREE-OR-FOUR-HORSE HITCH



The Double-Lever Disc Harrow is built exactly like the single lever machine except the addition of another lever.

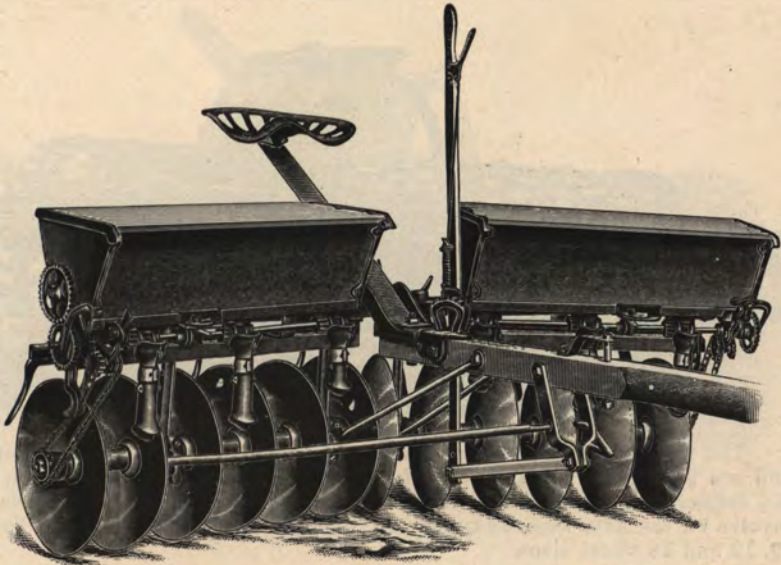
TELEGRAPH CODE.

PRICE.

BRUTALLY—Double-Lever Disc Harrow with eight 16-in discs.	\$.....
BRUISING—Double-Lever Disc Harrow with ten 16-inch discs.	\$.
BRUNETTE—Double-Lever Disc Harrow with twelve 16-in discs.	\$.....
BRUSHY—Double-Lever Disc Harrow with fourteen 16-inch discs	\$.....
BRUSTLE—Double-Lever Disc Harrow with sixteen 16-inch discs.	\$.....
BRUTAL—Double-Lever Disc Harrow with ten 18-inch discs.	\$.....
BRUTISH—Double-Lever Disc Harrow with twelve 18-inch discs.	\$.....
BUBBLING—Double-Lever Disc Harrow with fourteen 18-inch discs	\$.....
BUCKET—Double-Lever Disc Harrow with ten 20-inch discs.	\$.....
BUCKEYE—Double-Lever Disc Harrow with twelve 20-inch discs.	\$.....
BUCKLE—Double-Lever Disc Harrow with fourteen 20-inch discs.	\$.....

The "HAMILTON" Disc Harrow

WITH SEEDER ATTACHMENT



This attachment has been found to be a great labor saving machine for sowing broadcast wheat, barley and oats. It is very simple in construction but positive in its work. The hoppers are built of poplar lumber, well braced and put together in workmanlike manner. It has agitator to force out the seed. It can be adjusted to sow any desired quantity and the indicator shows the number of bushels sown to the acre.

The best way to put in small grain in the spring is by using a Disc Harrow for preparing the ground and seeding; especially is this true when the ground is wet. By the use of the Disc Harrow ground can be prepared and seeding done at the same time, thus saving much valuable time. It deposits the grain evenly on the ground in front of the Disc Harrow, the grain is thoroughly covered, and the seeding is done.

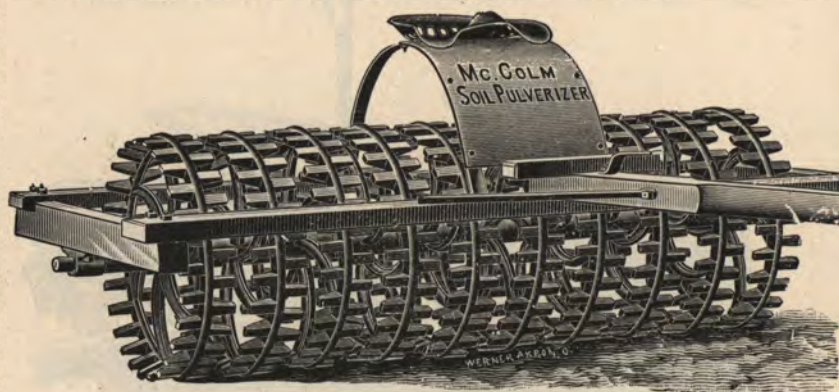
TELEGRAPH CODE.

PRICE.

BUZZARD—12 Discs 16-inch with Seeder.	\$.....
BUXOM—12 Discs 18-inch with Seeder.	\$.....
BUTTERFLY—12 Discs 20-inch with Seeder.	\$.....

THE "McCOLM"

Soil-Pulverizer and Compress Roller



The wheels are made of cast iron, very heavy, of extraordinary strength, and are 25 inches in diameter. They are placed upon a wrought-iron axle $1\frac{1}{2}$ diameter which revolves in boxes at each end and center; the wheels also revolve on the axle when running. A center brace can be furnished for the 10, 12 and 16 wheel sizes.

Frame is made of good, sound lumber. (We tried steel frame and found it too stiff.) Wood is flexible; it yields to the uneven ground, and best of all, if it rots away any farmer boy can make a new frame. Boxings are sure to wear out, no matter of what material made; we furnish heavy and true bored boxings with the machine, and when they are worn out they can be replaced by a wood block. No expense for repairs.

Hitching attachments are not furnished.

MADE IN FOLLOWING SIZES.

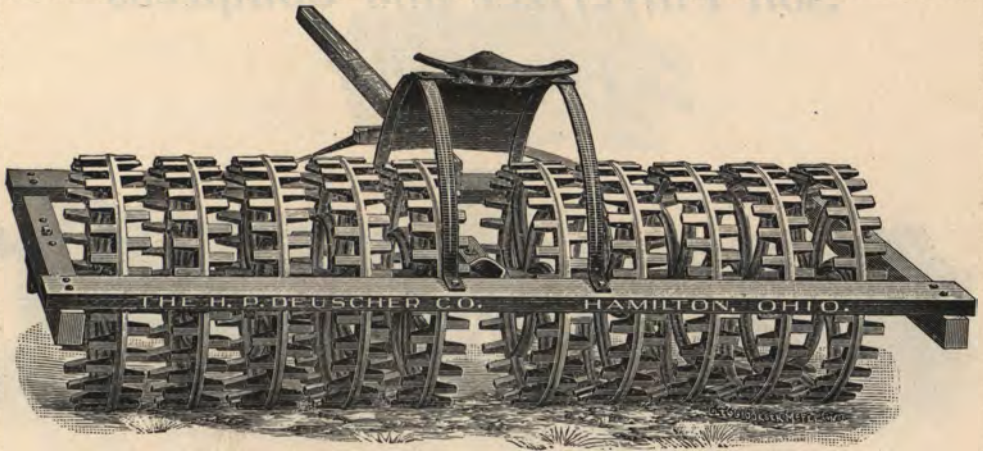
- 8 Wheels—weight, 900 lbs.; width 5 feet.
- 10 Wheels—weight, 1120 lbs.; width 6 feet 6 inches.
- 12 Wheels—weight, 1310 lbs.; width 7 feet 9 inches.
- 16 Wheels—weight, 1800 lbs.; width 10 feet 7 inches.
- 22 Wheels—2500 lbs.; width 14 feet 4 inches.

TELEGRAPH CODE.

PRICE.

BEADLING—McColm Soil-Pulverizer, 8-wheel size.	\$.....
BARGAIN—McColm Soil--Pulverizer, 10-wheel size.	\$.....
BAFFLING—McColm Soil Pulverizer, 10-wheel size with center brace.	\$.....
BEADLE—McColm Soil-Pulverizer, 12-wheel size, center brace.	\$.....
BEARISH—McColm Soil-Pulverizer 16-wheel size, center brace.	\$.....
BEASTLY—McColm Soil-Pulverizer 22-wheel size, center hinged.	\$.....

The "McCOLM" *Soil Pulverizer and Compress Roller*



Rear View Showing Machine with Hinged Collars in Position at Center for
Rolling Corn Land.

It is necessary that the soil be thoroughly pulverized before planting crops, if farming should pay. More plants can be obtained from three peck sown on well-prepared ground, and rolled after sowing, than from five pecks sown on ground as cloddy as is often seeded by the careless farmer. Most all farmers will agree with us that it is advisable to roll the ground after it is sown in wheat or any kind of grain.

The field roller is coming to be a necessity to those farmers who work their land on the most improved system.

The frosts of winter raise the roots of the grass more or less out of the ground, exposing them to the parching heat of summer, hence every meadow, in order to produce an even, heavy growth, should be rolled in the spring.

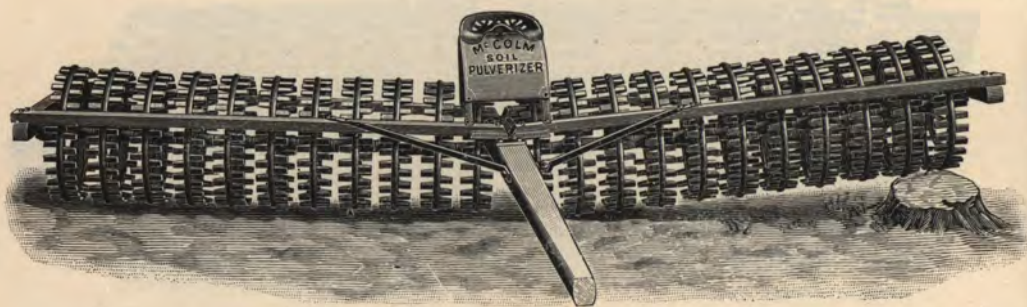
The "McColm" Soil Pulverizer packs the soil about the grain without producing a smooth, hard surface. It thumps the ground something like the treading of horses' feet. Every farmer has noticed that at the ends of the lands where the team turns and tramps the ground the grain is much heavier than on any other part of the field.

There is very little wear resulting from friction between the hubs of the wheels and the axle, as they only turn on the axle at the corners of the land. When the implement moves straight forward, the wheels and axles both turn together, making all the friction and wear on the collar boxing and near the ends of the axle.

THE "McCOLM"

Soil Pulverizer and Compress

Field Roller



This Illustrates the 22-Wheel Roller With Improved Hinged Frame and Jointed Axle

It adjusts itself to the uneven ground by the springing of frame and axle. Its great power to crush clods or lumps, and compress the soil, consists in bringing only one-third of the face of the Roller with its entire weight down on the soil. The width of the cogs on the wheel is one inch, and the space between the wheels is two inches; hence it crushes the soil like a fork on a boiled potato, leaving the field in compressed zig-zag ridges and indentations like a waffle-iron, packing the soil two-thirds harder than any other style Roller of equal weight.

Of course the soil should always be well pulverized, light and dry; but after the usual plowing and harrowing it lies in too loose a condition for the proper support and growth of the roots of grain and plants. And experience teaches that pressing the ground compactly about the grain or even the roots of plants and trees set out, adds much to the stability and growth of the plant, and in case of winter wheat prevents the frost from heaving it out. Under favorable circumstances judicious rolling or packing the soil will add a quarter or third to the yield of the crop. Ground should never be packed when wet, as it then dries hard and bakes, and injures the crop; nor must water lie on the surface of the ground after a rain, but must be carried off by proper slope and drainage, or by quick filtration through the soil.

The "McCOLM" Soil Pulverizer



It will not push the hard clods down in the soil, but will crush them, and a harrow is generally not needed.

It does not cause any crust or shell on top of soil to bake hard. It saves one-quarter draft of harvesting machinery.

It is light draft, no side draft, no weight on horses' neck. Two ordinary horses can work a ten-wheel size machine an entire day without hurting their shoulders or shaking driver to pieces.

No farm can be operated successfully without the use of a good Land Roller, and no farmer can afford to buy common Wooden Rollers or solid Land Rollers which do imperfect work, and are always getting out of repair, besides the use of which is often detrimental, in that they form a crust through which no tender plant can grow—when he can at a little extra expense purchase a roller which will last a lifetime.

An impartial and unprejudiced test will demonstrate all we claim for the "McColm" Soil Pulverizer, and that, price and lasting qualities considered, it is the cheapest implement for the purpose that the farmer can buy.

There is no danger of breaking any part of this implement. It can be taken over rough, stony ground without any injury. In turning the machine around, one-half of the sections roll forward and the others backward, consequently there is no tearing up of the soil.

They are suited to any soil, as they clean themselves.

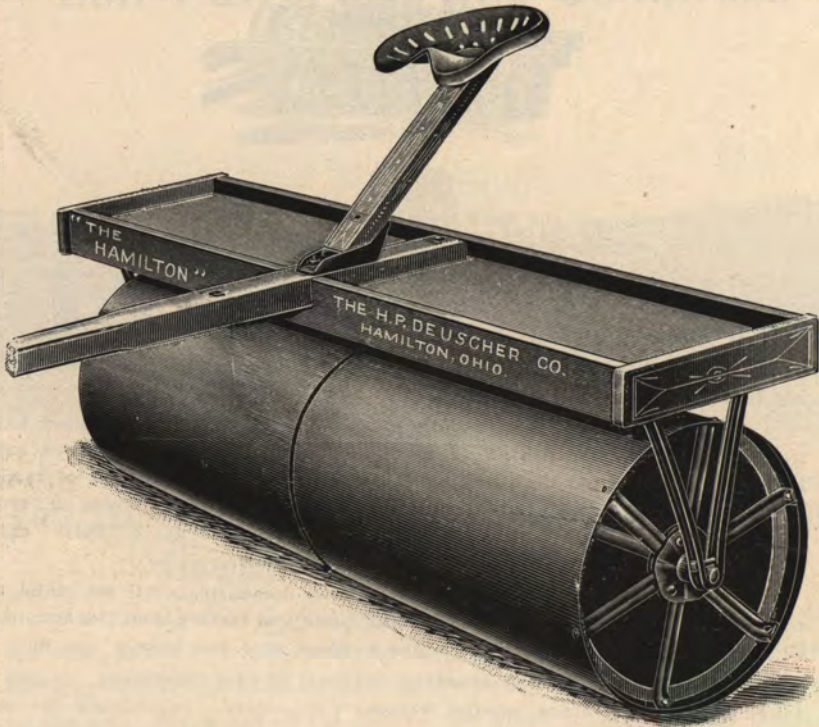
With each ten-wheel "McColm" soil Pulverizer we furnish two patent Hinged Collars; by placing them on the center of shaft or axle (which puts five wheels on each side), it makes a space so that the machine will straddle a row of corn. Used in this manner the "McColm" Soil Pulverizer does the most excellent work in the corn field after the first plowing; it can be used when the corn is fully knee high without doing any injury to the plants, as the space made by the collars will straddle the row, thus taking two rows at a time, destroying and covering all weeds and grass between the rows.

For all Rollers, except eight and ten-wheel size, there is a heavy iron brace across the middle of the frame, with a box through which the axle passes, and which center brace can also be furnished with the ten-wheel roller, on order.

Without crowding, in fact with easy work, two horses can roll twenty acres, three horses thirty acres, and four horses forty acres per day.

THE "HAMILTON" LAND ROLLER

WOOD FRAME



A cheap, serviceable machine. It is well made and neatly finished.

This roller consists of two steel drums 24 inches diameter and 3 feet 6 inches long, making a seven foot-Roller.

The steel used for the drums is high tempered and the heads or spiders are wrought iron.

Shaft is $1\frac{1}{2}$ inch steel. Wood platform is neatly built and extends entire length of Roller; well bolted together and substantial.

Oil holes are protected by iron lids, to prevent grit from entering.

This machine is also built with 3 sections each drum being 2 1-3 ft. long, making seven-foot Roller.

TELEGRAPH CODE.

PRICE.

BUCKRAM—Wood frame Roller, 7 feet wide, 2 sections.

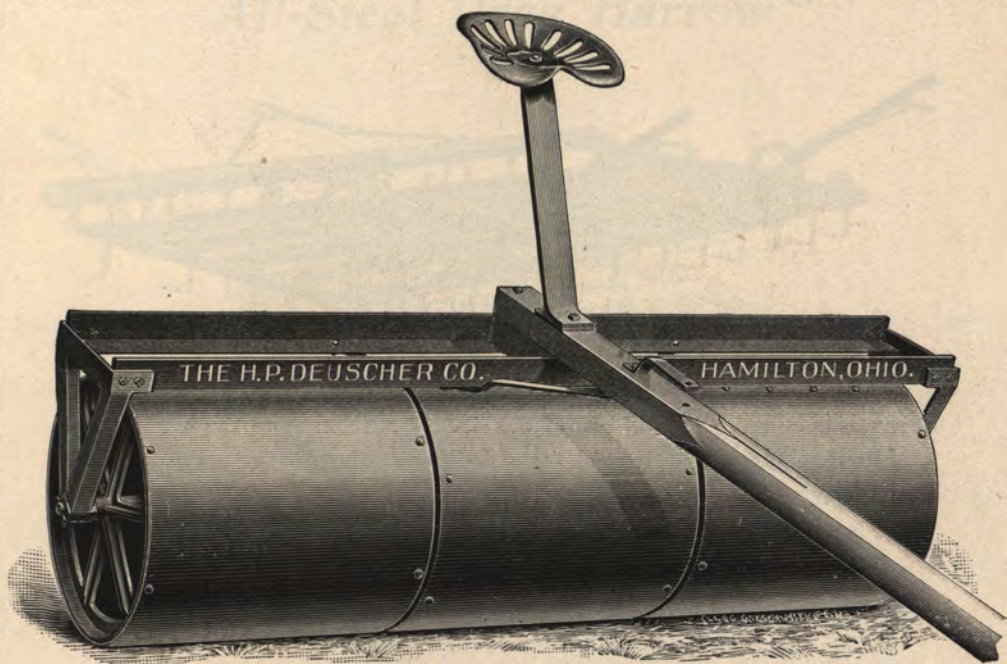
\$.....

BUCKSKIN—Wood Frame Roller, 7 feet wide, 3 sections.

\$.....

THE "HAMILTON" LAND ROLLER

STEEL FRAME



The Drums are No. 8 gauge steel of high temper, riveted securely at the edges and supported by wrought iron felloes, they are 24 inches diameter and measure

3 ft. 6 in. long, for 2-section Roller.

2 ft. 4 in. long, for 3-section Roller.

Extreme length of either 2 or 3 section machine is 7 ft.

Heads or spiders are heavy wrought iron. Axle is $1\frac{1}{2}$ inch steel.

Seat is pressed steel. The weight of the driver counterbalances the weight of pole and removes all neck weight from horses.

The frame is angle steel, $3 \times 3 \times \frac{1}{4}$ inch thick, very heavy, securely bolted, and arranged so that additional weight can be placed on machine.

TELEGRAPH CODE.

PRICE.

BOMBARDED—Steel Frame Roller, 7 feet, 2 sections.

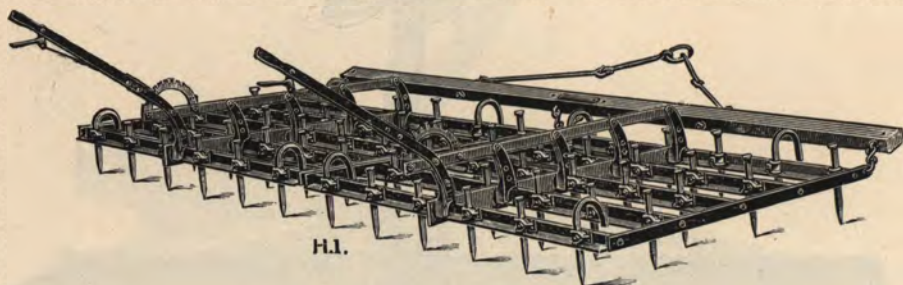
\$.....

BOMBARDING—Steel Frame Roller, 7 feet, 3 sections.

\$.....

THE "HAMILTON"

Angle-Bar, Steel Lever Harrow.



This is without doubt one of the strongest Harrows on the market, and is built to supply the demand for a Steel-lever Harrow for usage in rough and heavy soils.

It is built of $1\frac{3}{4} \times 1\frac{3}{4} \times \frac{1}{4}$ angle-bar steel. Teeth are firmly held by malleable-iron clamps and don't work loose. Teeth are $\frac{5}{8}$ -inch square; can be raised, lowered and reversed, so that they are always kept sharp.

Made with either 25 or 30 teeth to each section.

A 25 tooth section cuts 4 feet.

A 30 tooth section cuts 4 feet 10 inches.

Any number of sections can be used.

Notice the Runner teeth with which all our Harrows are equipped—very convenient for moving the Harrow. They form sleds on which the Harrow is dragged.

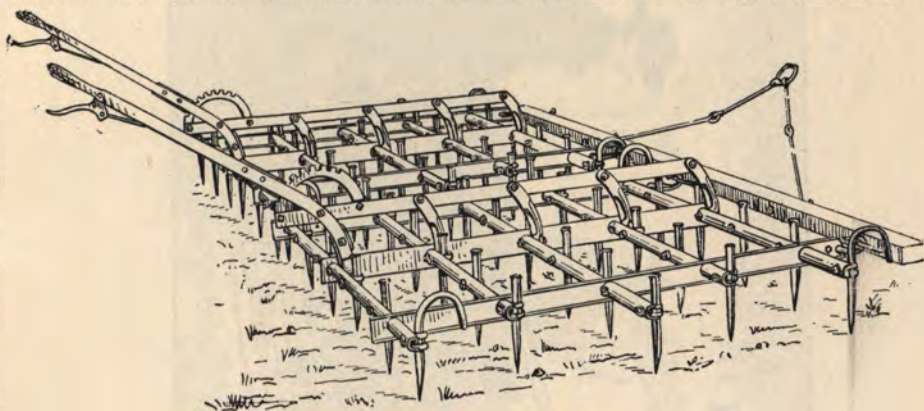
TELEGRAPH CODE.

PRICE.

BAYONET—One Two-section Harrow, 50 teeth, with hitch bar.	\$.....
BAZAAR—One Three-section Harrow, 75 teeth, with hitch bar.	\$.....
BEACH—One Four-section Harrow, 100 teeth, with hitch bar.	\$.....
BIRCH—One Two-section Harrow, 60 teeth, with hitch bar.	\$.....
BLOOM—One Three-section Harrow, 90 teeth, with hitch bar.	\$.....
BUILD—One Four-section Harrow, 120 teeth, with hitch bar.	\$.....

THE "INVINCIBLE"

All-Steel Drag Harrow



Tooth bars are U-shaped steel. Cross bars are 10 inches from end, shortening distance between bearings and adding strength to the tooth bars.

The Invincible Drag Harrow does excellent work and is a very durable machine, equipped with tooth clamps that don't work loose. Teeth can be raised, lowered and reversed.

All our Harrows are furnished with sled runner teeth, four in each section—makes it very convenient for moving from place to place.

TELEGRAPH CODE.

PRICE.

BEDFORD—One Two-section U-Bar Harrow 50 $\frac{5}{8}$ -inch teeth.	\$.....
BECOME—One Two-section U-Bar Harrow, 60 $\frac{5}{8}$ -inch teeth.	\$.....
BEWARE—One Two-section U-Bar Harrow, 60 $\frac{1}{2}$ -inch teeth.	\$.....

The "HAMILTON" Folding Harrow

WOOD FRAME



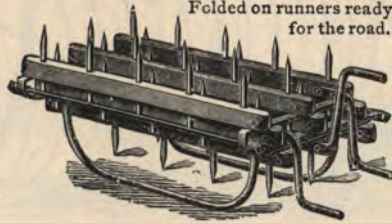
This illustration shows Triple-section Folding Harrow at work, and with one section or wing raised to pass obstruction.

Wood Frame Folding Harrow

IT WILL OUTLAST ANY OTHER WOOD-FRAME
HARROW.

**"The Hamilton" Triple Section
STEEL TOOTH FOLDING HARROW.**

Folded on runners ready
for the road.



It is built of thoroughly seasoned white oak lumber, steel and wrought iron. Teeth are $\frac{5}{8}$ -inch square steel. The runners on which it is moved are flexible and are out of the way when the harrow is in use. When folded for shipment, or for moving, it is more compact and takes up less space than any other folding harrow. The chain need not be unhooked for folding. It is easily raised to clean out trash or to pass obstructions.

Made in the following sizes:

Two-section, with forty $\frac{5}{8}$ -inch steel teeth.

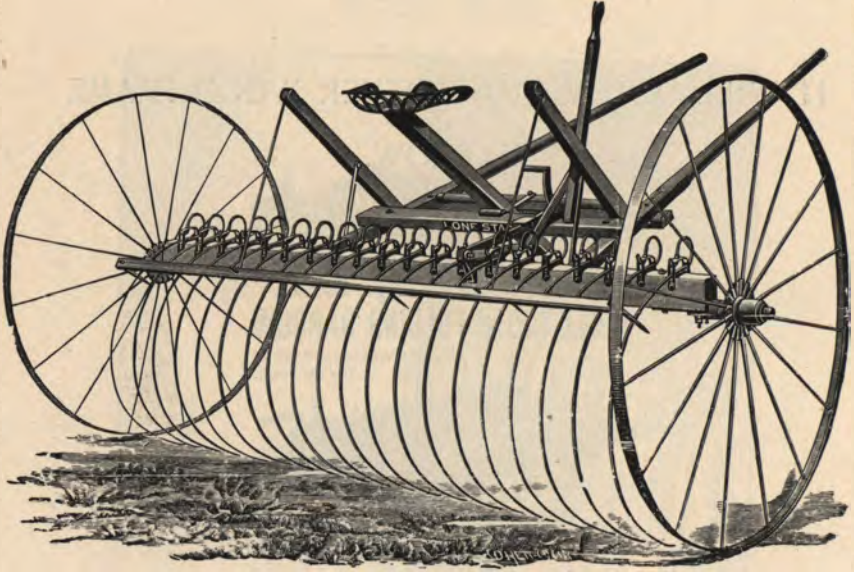
Three-section, with forty-five $\frac{5}{8}$ -inch steel teeth.

TELEGRAPH CODE.

PRICE.

BATON—Two-section Folding Harrow with 40 $\frac{5}{8}$ -inch teeth.	\$.....
BATTALION—Three-section Folding Harrow with 45 $\frac{5}{8}$ -inch steel teeth.	\$.....

The "LONE STAR" Hay Rake



The Teeth are made of the best tempered steel, the base of which is coiled; when fitted into the holder they act as a spring, which gives the proper tension or pressure that may be required by the nature of work.

Tension of Teeth can be governed by the tooth-holder; and when taking heavy grass or clover, by depression of the holder, the teeth are held firmly down to a position that rakes effectually the matted and tangled grass.

Tooth-holder is made of malleable iron, very simple, strong, and effective, and the teeth are held strongly by the holder, which allows it to swivel in a small curve, preventing side movement, and working freely up and down.

The "Lone Star" is a combined foot and hand dump, so constructed that the weight of driver assists in dumping.

Made in following sizes

PRICE

8-foot with 20 teeth, with shafts only.	\$.....
10-foot with 25 teeth, with combination pole and shafts.	\$.....
12-foot with 30 teeth, with combination pole and shafts.	\$.....
10-foot rakes are trussed with an iron rod to prevent sagging of the head.	
12-foot rakes are double trussed.	

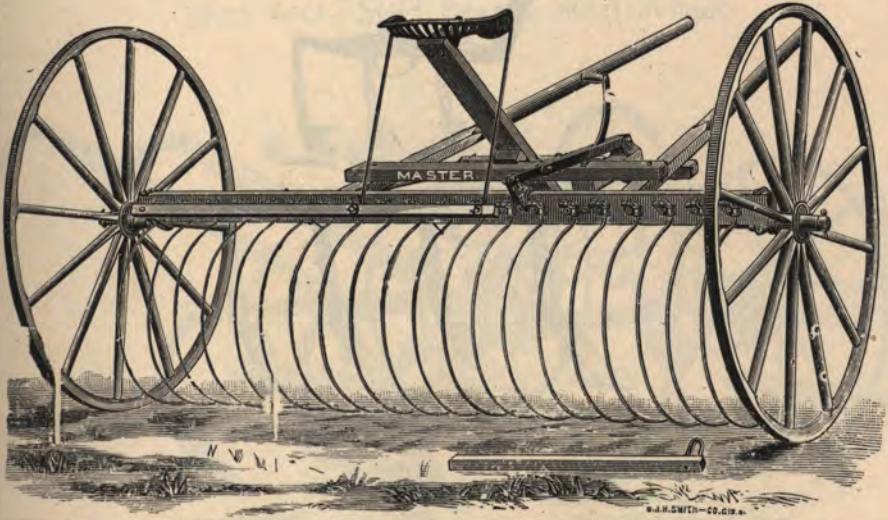
TELEGRAPH CODE.

BELOVING—One 8-foot Lone Star Rake with steel wheels

BENEDICT—One 10-foot Lone Star Rake with steel wheels.

BENEATH—One 12-foot Lone Star Rake with steel wheels

The "MASTER" Hay Rake



WITH WOOD OR STEEL WHEELS

A fair rake at a fair price.

With drop tooth. Furnished with steel wheels or wood wheels if desired.

The Teeth, 20 in number, are attached by malleable-iron holders to the rake head, each fastened by a separate bolt (which can be removed or replaced instantly). They are so constructed and shaped, that they glide under the hay, collecting every straw without striking the soil. They raise high when dumping and drop the entire quantity of hay gathered.

Easy dumping is another important feature. Any child old enough to drive a horse, can operate this rake without effort.

Durability. All the important castings are made of malleable iron, the spindles being wrought iron.

Adjusted readily for any variety of crops or surface.

Workmanship and material a No. 1.

Thills or Shafts are hinged so that the draft of the horse assists in discharging the hay; no effort required to move the lock lever.

TELEGRAPH CODE.

PRICE.

BENEFITTED—One 8 foot Master Rake with steel wheels.

\$.....

BENEVOLENT—One 8-foot Master Rake with wood wheels.

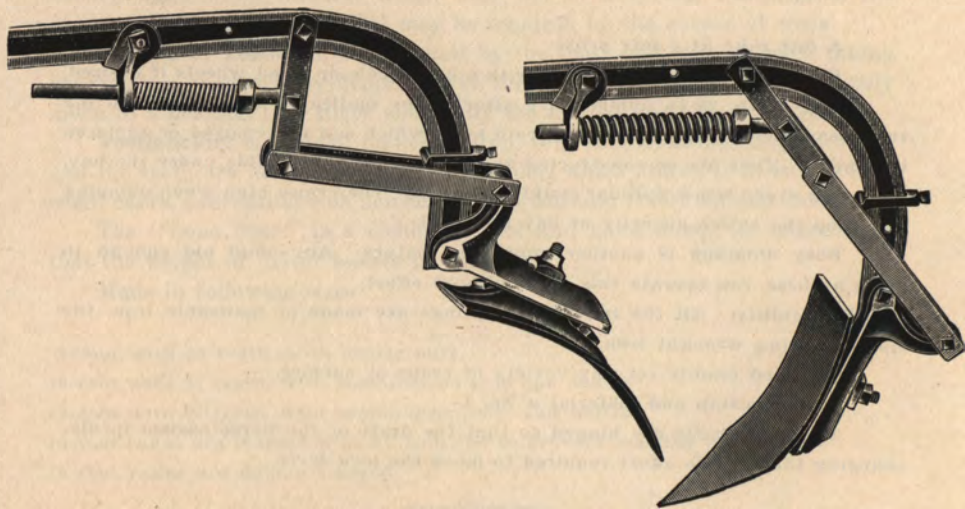
\$.....

“IDEAL” Cultivator Gangs



These Gangs are interchangeable on all our “IDEAL” Riding Cultivators.

Spring Trips

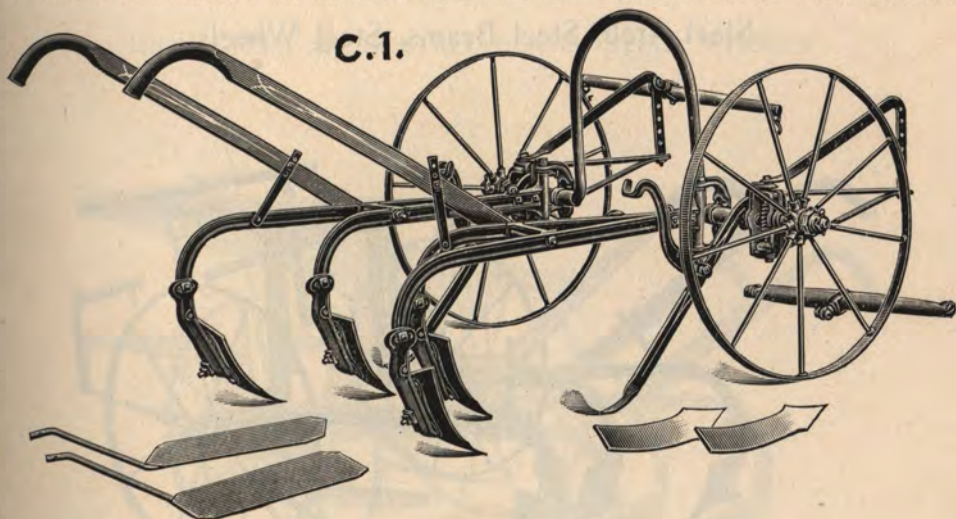


SIMPLE and PERFECT

These Spring Trips can be attached to all gangs of Cultivators except 4 shovel gangs or Eagle Claws. They work where others fail.

The "IDEAL" Tongueless Cultivator

Steel Arch, Steel Beams, Steel Wheels



The springs are so arranged that the wheels are always kept in line of draft, consequently it will not fall down like most tongueless cultivators, and can be backed or wheeled around by use of the handles. The gangs work independently of each other, consequently each horse pulls his own plow. Thus equalization is perfect. The shovel posts are adjustable on the beams by means of ratchet, giving the shovels any desired angle, so as to get the proper "suction" in any kind of soil. The gangs can be raised or lowered, and set at any distance in or out from each other, to suit the user. The handles are adjustable. Shields or guards to protect the plants, are furnished with each machine.

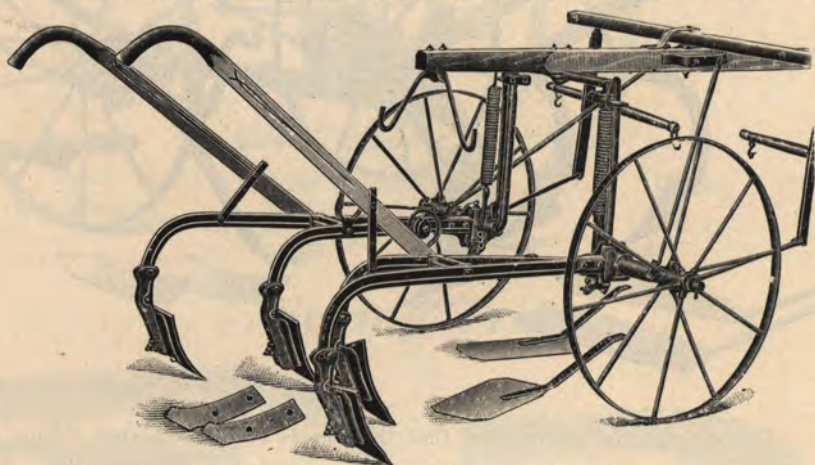
TELEGRAPH CODE.

PRICE.

CUTLET—4-shovel gang Tongueless Cultivator, with four 5-inch shovels and 2 bull tongues.	\$.....
CUTLASS—3-shovel gang, six 2½ or 3 inch shovels.	\$.....
CUTICLE—8-shovel gang or eagle claws Tongueless Cultivator, eight 2½ or 3 inch shovels.	\$.....

The "IDEAL" Single-Tongue Cultivator

Steel Arch, Steel Beams, Steel Wheels



Has all the modern improvements. This Cultivator has been on the market for a number of years and has given universal satisfaction. The springs carry the weight of gangs, but with no tendency to hold the shovels out of the ground.

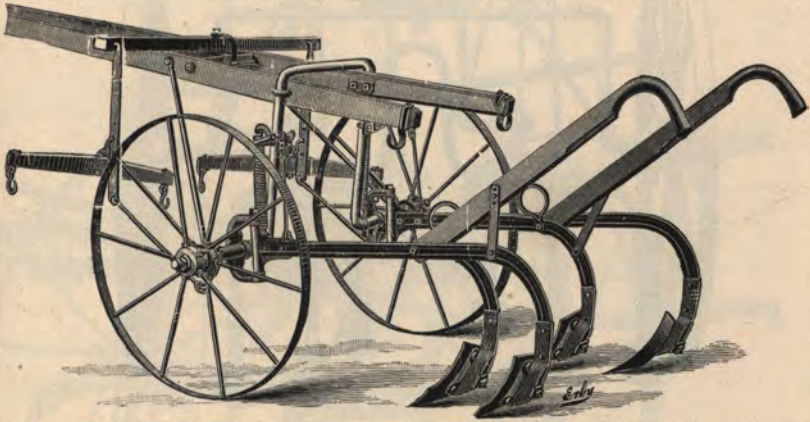
TELEGRAPH CODE.

PRICE.

CUSTOMER—2-shovel gangs Single Tongue Cultivators, four 5-inch shovels and 2 bull tongues.	\$.....
CUSTOM—3-shovel gangs, six 2½ or 3-inch shovels.	\$.....
CUSTODY—4-shovel gang or eagle claws, eight 2½ or 3-inch shovels.	\$.....
Spring trip, price for each shovel	\$.....

The "IDEAL" Double-Tongue Cultivator

HIGH STEEL ARCH, STEEL BEAMS, STEEL WHEELS.

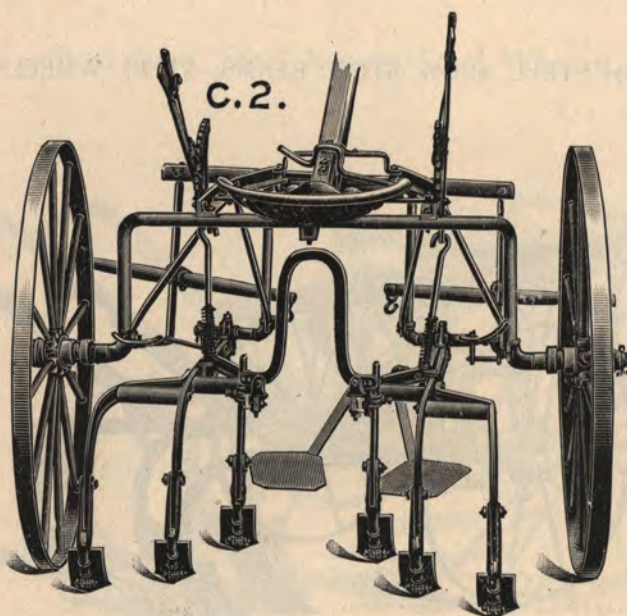


This Cultivator is the same as the Ideal Single-tongue Cultivator, shown on page 34, with the exception of the tongue.

TELEGRAPH CODE.	PRICE.
CUSTODIAN—2 shovel gangs, four 5-inch shovels and 2 bull tongues.	\$.....
CUSTARD—3-shovel gangs, six 2½ or 3-inch shovels.	\$.....
CUSHIONED—4-shovel gang or eagle claws, eight 2½ or 3-inch shovels.	\$.....
Spring trip, price for each shovel.	\$.....

The "QUEEN" Riding Cultivator

Steel Frame—Adjustable Wheels for Narrow or Wide Rows



Either 4, 6 or 8 shovels. Gangs can be raised and lowered, or set farther apart or close together at front end. Seat is adjustable, can be raised or lowered, moved forward or backward to accommodate driver.

Seat can be removed and handles substituted to use as a walker.

Not a fad, but an up-to-date Cultivator. Gangs hung on pivots. Pushing forward on the stirrups separates the gangs. The wheels can be easily set in, or apart, to accommodate any width rows. It is unequalled for simplicity and durability.

TELEGRAPH CODE.

PRICE.

CUSHION—2-shovel gang Riding Cultivator, four 5-inch shovels and 2 bull tongues.	\$.....
CURTAILING—3-shovel gangs, six 2½ or 3-inch shovels.	\$.....
CURTAILED—4-shovel gangs, eight 2½ or 3-inch shovels.	\$.....
2-inch, 3-inch or 5-inch shovels can be furnished.	
If handles are wanted	\$..... Extra

The "IDEAL" Steel-Frame Combination Riding or Walking Cultivator

With Wheels Adjustable for Wide or Narrow Rows



Side View.

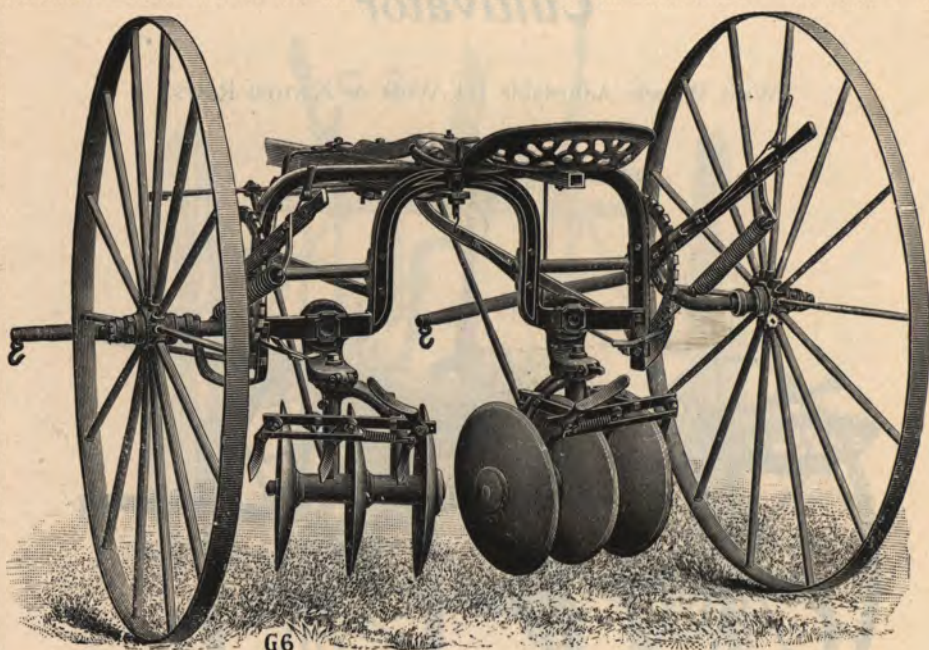
With either 4, 6 or 8 shovels.

Being hung on pivots, the gangs always run level. All shovels plow same depth, no matter how far apart or how close together they run. Pushing forward on the stirrups separates the gangs.

Can be furnished with handles, so that it can be used as a Walker.

In ordering use same telegraph code as on page 36, prefixing the word "Ideal."

The "IDEAL" Disc Cultivator



G6

Can be set to plow any depth—depth is regulated by raising and lowering wheels, this prevents the discs from running deeper in soft places and consequently the work is always done at uniform depth. Cannot slide over hard ground as do Cultivators which depend on springs. Entire weight of machine can be thrown on gangs, and the machine is always under ready control of driver. Works at any angle. Besides can be set to throw the dirt from or against the corn—to make furrow, or throw a ridge. The tongue is pivotal and controlled by the driver seat—moving the seat moves the wheels and gives quick action to the plow. Operator has free use of hands for taking care of team. Does excellent work, destroys all weeds and vines. Blades do not require sharpening—always ready for work.

Price, with six 16-inch Discs.

\$.....

The Combined Fence Machine



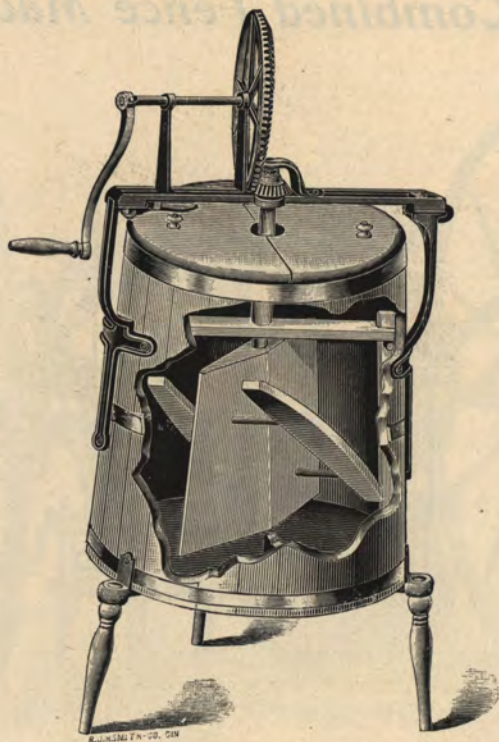
The above cut represents our Combined Fence Machine, which is recognized by all who have used it, to be the best. With this machine there need be no slack in the wire, no setting of the machine twice to build a fence of any desired length, as the wire can be drawn as tight as is needed and the pickets woven in, without again slacking the wires. A saving of material can be made by using this machine. A pair of splicers and a double-action cable brace are furnished with each machine.

TELEGRAPH CODE.

PRICE.

JUDGE—Combination Fence Machine to weave 3 strands of wire. \$.....
 JUDGING—Combination Fence Machine to weave 4 strands of wire. \$.....

THE FAVORITE CHURN



The only dash churn that has no metal to come in contact with the cream. Having the gearing on top prevents leakage.

It is easily cleaned, as the gearing and dash can be detached and cleaned separately. The milk can be drawn off and butter left to be removed.

It is warranted to make as much butter out of the same amount of cream of like quality, in less time and with less labor than any other churn.

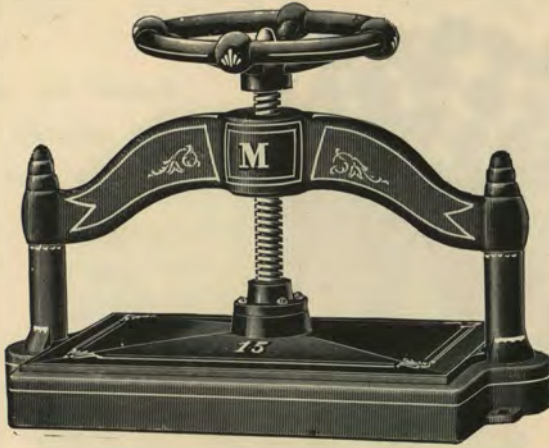
The buckets are of cedar, brass hooped, and of the following sizes:

TELEGRAPH CODE.

PRICE.

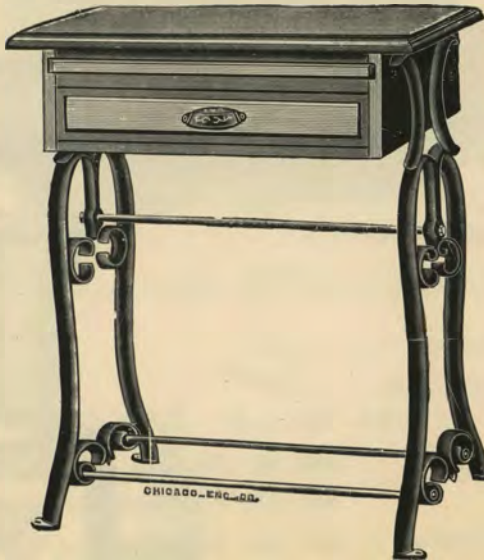
BENUMB—One No. 1 Favorite Churn, 2 gallon capacity.	\$.....
BENGAL—One No. 2 Favorite Churn, 3 gallon capacity.	\$.....
BEQUEATH—One No. 3 Favorite Churn, 4 gallon capacity.	\$.....
BESIEGE—One No. 4 Favorite Churn, 5 gallon capacity.	\$.....

Letter Copying Presses



200 STYLES AND SIZES.

Letter-Press Stands



Send for Special 40-page Catalogue for Sizes and Prices.

Iron Lawn Settees



Painted any color desired.
Unless specified in order we
always use white paint.

Single Chair \$ 7 00
Two Seat Settee 12 00
Four Seat Settee 18 00

Discount on application.

Iron Vases

No. 1. With handles complete, and
12-inch center-pieces (not shown in
cut), painted white \$12 00

No. 2. Same as cut, less handles and
center-piece \$10 00

Height to top of handles 43 in.

Height to top of center-piece 55 in.

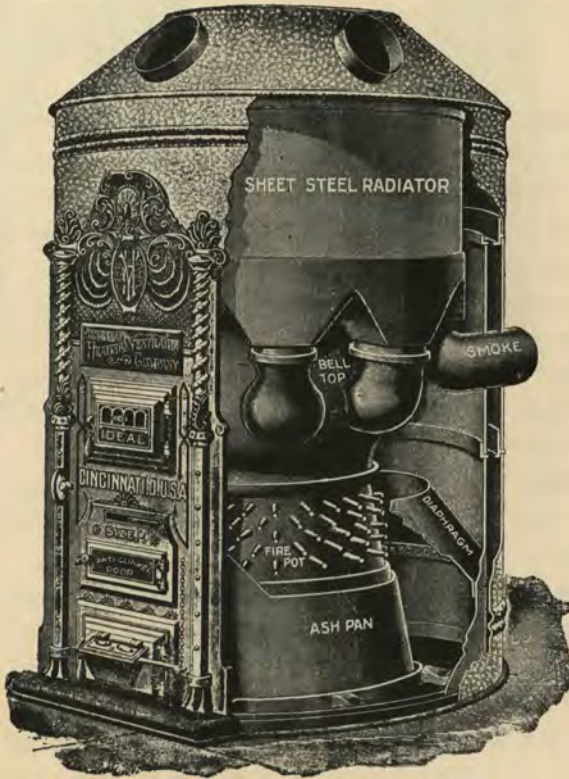
Diameter of vase 22 in.

Width, including handles 29½ in.

Discount on application.



The "IDEAL" Furnace.



This is cut of residence furnace, showing part of casing removed to give view of inner part.

THREE SIZES, "D," "E" AND "F."

"D"—Heating capacity, 45,000 cubic feet.

"E"—Heating capacity, 35,000 cubic feet.

"F"—Heating capacity, 25,000 cubic feet.

We are sole manufacturers of the "IDEAL" System of Heating and Ventilating and Sanitary Apparatus, which department is managed under the name of the Cin. Heating and Ventilating Co. We would be pleased to mail, postpaid, one of our Special Catalogues, "X-Ray on Heating and Ventilating," to parties or building committees who may be interested in this subject.

The "IDEAL" Furnaces are made in various sizes to suit the conditions. The radiating surfaces are larger and furnish more wholesome and moderately warmed air than any other furnace of similar size in the market today. These furnaces are designed especially as sanitary air warmers. They are made to burn anthracite or soft coal, coke and natural gas.

This department of our work is under skilled sanitary engineers, and as much attention is given to this class of work as to public buildings. Our furnaces are not designed as cheap furnaces, but when economy in fuel, the life of the furnace, and the quality of the atmosphere supplied by them, are taken into consideration, it is a profitable investment.

The "IDEAL" Furnace will heat every room in the house thoroughly, and with less fuel than you burn in two stoves, which will heat not more than four rooms.

The "IDEAL" Furnace requires looking after about four times daily. The coal and ashes are in the cellar, and consequently you get no dirt, soot, or grime in your rooms. Stoves require constant looking after, and also fill the rooms with dirt and soot.

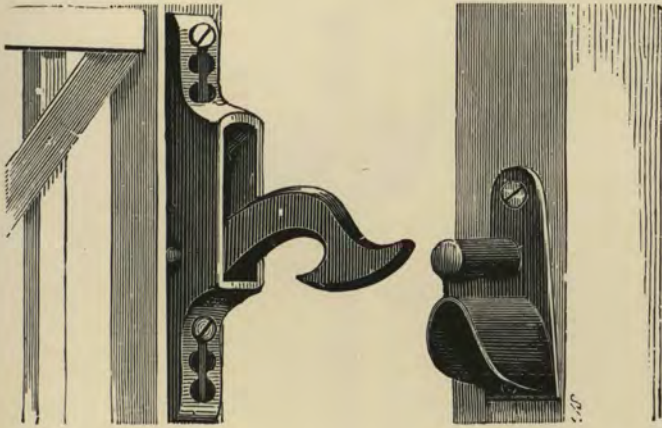
While the first cost of a furnace seems to be a large item, yet when compared with the cost of several stoves and the saving in fuel, then the furnace is the cheapest in the long run—besides it heats the entire house.

We claim the "IDEAL" to be superior, because its heating capacity is greater and it is heavier than any other make of furnace of equal capacity.

Our special catalogue describes in detail the superior points in this furnace, and it will accord us great pleasure to mail you one.

If you know of any building to be erected that will require a large furnace, advise us, and, if distance is not too great, we will send an expert to help you secure contract.

ST. LOUIS GATE LATCHES.



Price, per dozen \$

POST SUPPORTS.



Price, per pound 5 cents

IRON GRATES OR FOUNDATION VENTILATORS.

We can make all sizes; but carry in stock only the one size which is a ready seller. It measures $5\frac{1}{2}$ in. x $7\frac{3}{4}$ in.

Price, each cents

MEMORIAL TABLETS.



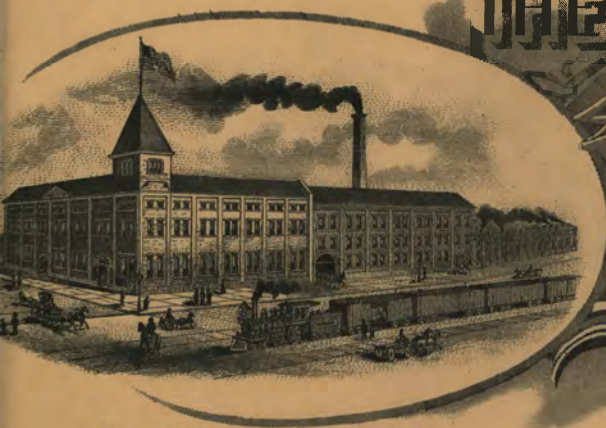
We are prepared to furnish **Memorial Tablets for Marking the Graves of Soldiers** (see cut), at the following prices:

Painted Black - - - 35c each

Painted Black with Gold Lettering, 40c each

If 40 or more are ordered then we pay the freight to your railroad station. In quantities of 200 or more a discount will be allowed.

These **Memorial Tablets** are made from the best class of iron, will not break and will last for ever. They are equipped with bouquet holder at the top point, and are provided with clamps to hold several small flags.



THE H. P. DEUSCHER CO.

MANUFACTURERS OF

AGRICULTURAL IMPLEMENTS.

ESTABLISHED
1878
INCORPORATED
1888.

Hamilton, Ohio, U.S.A., June 29, 1904

Mr. L. C. Corbett,
Horticulturist,
Washington, D. C.

Dear Sir:-

We have your esteemed communication of 27th, and agreeable to same are mailing to you under separate cover our catalogue and booklet, and we are pleased to quote you the "McColm" Soil Pulverizer, without hitching attachments, f.o.b. Washington, D. C., as follows:-

With 10 wheels, without center brace	--	\$35.00
" 10 " with center brace	--	36.00
" 12 " " " "	--	42.00

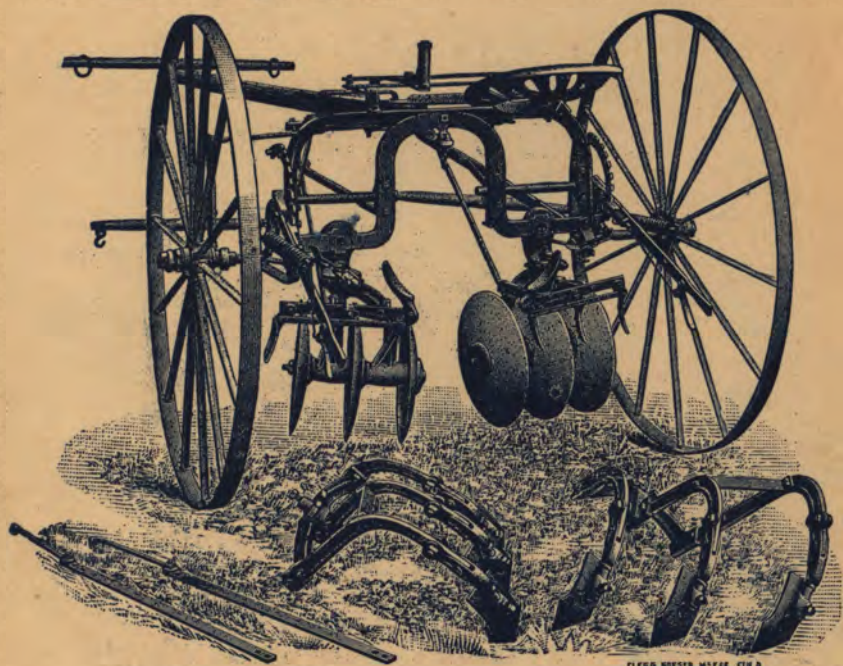
We trust that you will find these prices acceptable and can assure you that if favored with your order we will make immediate shipment.

Thanking you kindly for the inquiry, we beg to remain
Yours truly,

The H. P. Deuschel Co.

32

The "IDEAL" Disc Cultivator



With six 16-inch discs. Strong and substantial—A perfect machine.

Can be set to plow at any depth—depth is regulated by raising and lowering wheels, this prevents the discs from running deeper in soft places and consequently the work is always done at uniform depth. Cannot slide over hard ground as do cultivators which depend on springs. Entire weight of machine can be thrown on gangs, and the machine is always under the ready control of the driver. Works at any angle. Blades can be set to throw the dirt from or against the plants—to make a furrow or throw a ridge.

The driver guides the machine by using lever which is within easy reach and it gives perfect control over the gangs and wheels. They respond immediately, making it possible to run the gangs one foot to the right or left while traveling about 4 feet.

Can furnish shovel gangs to be used in place of disc gangs; the change is made in a few minutes time. This practically gives two machines in one.