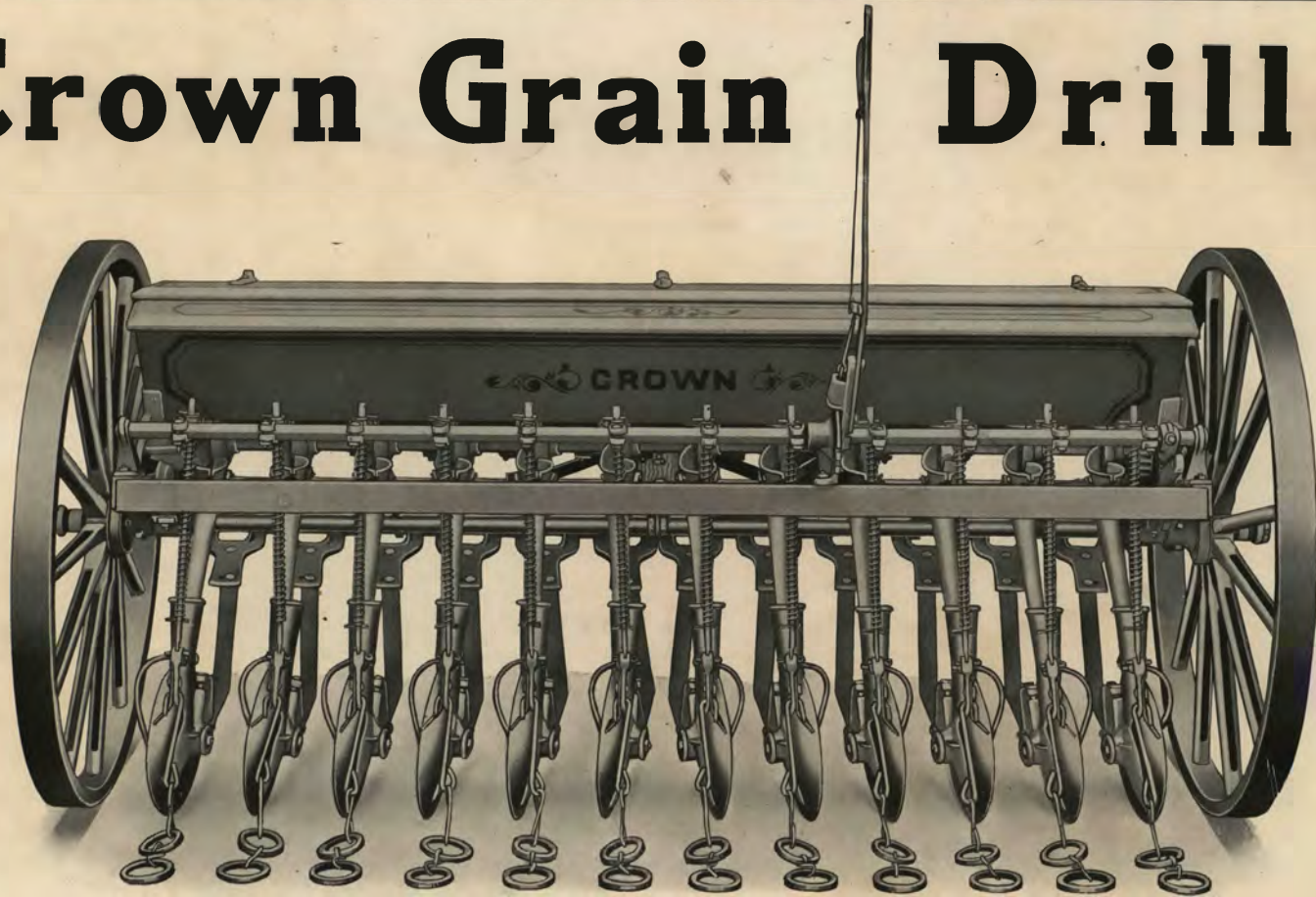


Crown Grain Drills

12x7
Plain
Disc
Drill



Manufactured by

The Crown Manufacturing Co., Phelps, N. Y., U. S. A.

INTRODUCTORY

IT is with considerable satisfaction that we are introducing the CROWN GRAIN DRILLS to our customers and friends.

The CROWN Drill is honestly built, being equipped with a great many special features, found only on CROWN Drills, and features which tend to lighten the work of the farm, at the same time doing better work and producing better results than other drills.

STRENGTH and DURABILITY are the qualities in the CROWN DRILL that have made it popular in the UNITED STATES and especially in the eastern territories where the soil

is rough and rocky and where STRENGTH and DURABILITY are absolute necessities.

For a number of years these drills have been used in EUROPE and have given perfect satisfaction. For over a quarter of a century a CROWN DRILL has been used at the New York State Experimental Farm, Geneva, N. Y., where PERFECTION is always required and obtained.

The constant and ever increasing patronage bestowed on us by a critical and practical public has ever been our incentive to invent and improve, and has stimulated us to maintain and advance the position we have as one of the leading Manufacturers of Grain Drills.

WHY?

THE CROWN DRILL SHOULD BE ON EVERY FARM.

BECAUSE:—

It is equipped with positive force feeds for grain, grass seed and fertilizer.

The CROWN has the Improved Jessup force feed, absolutely reliable and the best.

The grain feed wheels are cup shaped, of large capacity, there being no cracking of seeds.

The CROWN will handle all kinds of peas, beans and corn without spoiling the seed.

No extra attachments for planting corn.

One lever used for changing feed for different kinds of seeds or for different quantities. No changing gears.

The CROWN is geared direct to the axle, imparting motion instantly.

The CROWN is driven by both wheels, NO SIDE DRAFT OR LOSS IN TURNING.

THE CROWN IS THE ONLY DRILL MADE THAT WILL HANDLE DAMP OR STICKY FERTILIZER SUCCESSFULLY.

The CROWN fertilizer attachment is the most perfect to be had.

The CROWN is the lightest draft drill made. There is practically no neck weight.

The CROWN is the best finished drill on the market.

The CROWN is the easiest and quickest to set up.

Honest Construction — CROWN DISC DRILLS EXCEL — Results

THE front page of this circular shows a rear view of the plain disc drill. Special attention is called to the simple, but effective construction of this machine.

The discs are set at an angle, opening a deep, wide furrow, in such a way, that after the seeds have been deposited, the loose earth falls in and covers them. To complete and insure uniform covering, heavy cover chains are furnished with all CROWN drills.

The draw bars are made of heavy angle steel, which prevents bending or twisting, as has been the trouble with a large number of drills, equipped with flat steel bars in order to reduce the cost of manufacture. Our idea is to build and build well.

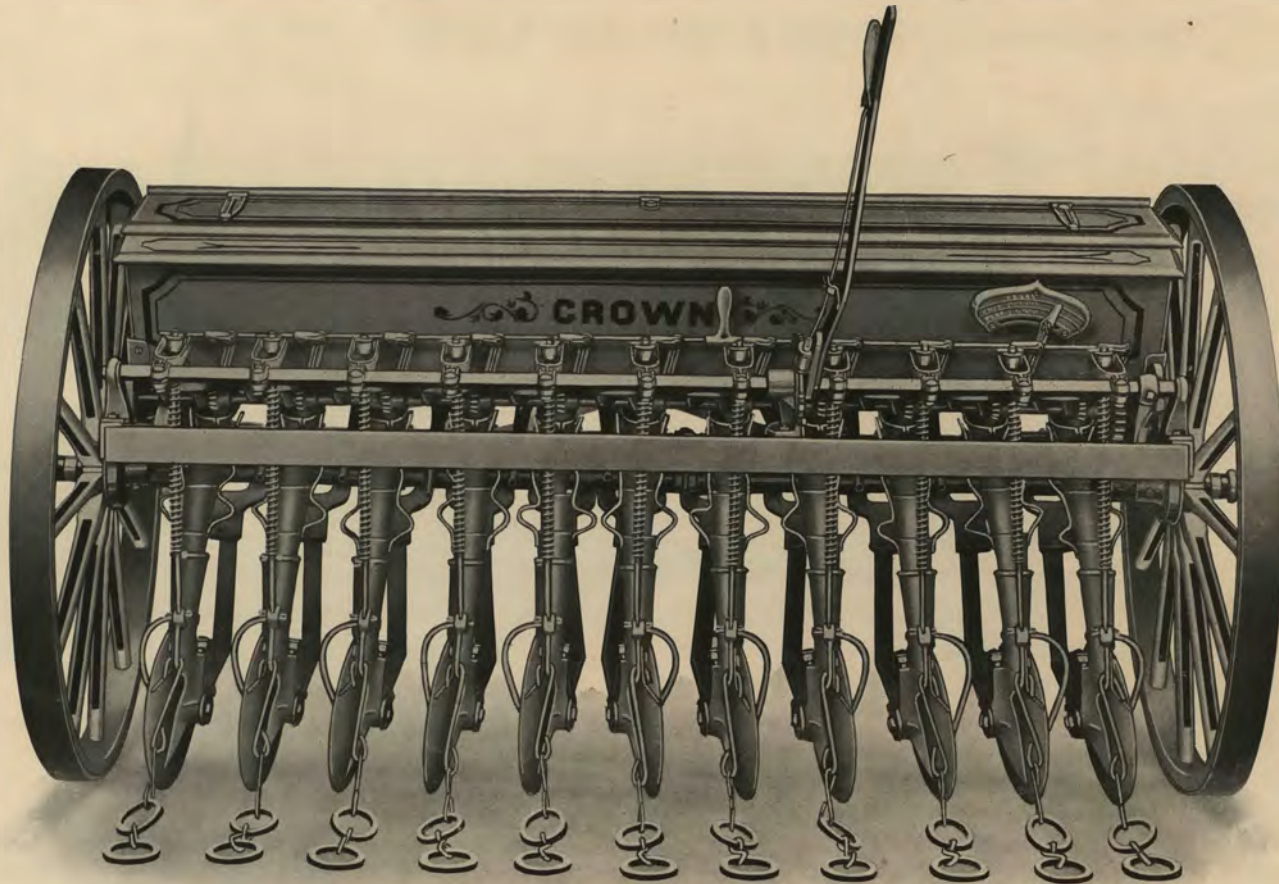
The CROWN disc boot is so constructed as to permit the use of any kind of tube, including galvanized, ribbon or rubber as required.

Strong spring pressure is applied at the rear of the disc, by a strong steel spring working around a heavy pitman rod, which is provided with several holes at both ends for adjustment. Any desired amount of pressure can be placed on the discs even to throwing the weight of the wheels on them.

A popular point in the construction of the CROWN is that there is practically no neck weight at any time, doing away with the sore necks during seeding time.

A rear view of the combined fertilizer disc drill is shown on the next page.

Honest Construction — CROWN DISC DRILLS EXCEL — Results



11 x 7 Combined Disc Drill

Notice simplicity and strength. Wood or steel wheels as desired. Every CROWN drill is set up and tested before leaving the factory.

Honest Construction — CROWN DISC DRILLS EXCEL — Results

ALL STEEL FRAME.

BEST GRADE DISCS.

RELIABLE CASTINGS.

DOUBLE DRIVE.

STRONG POLE.

WELL BRACED.

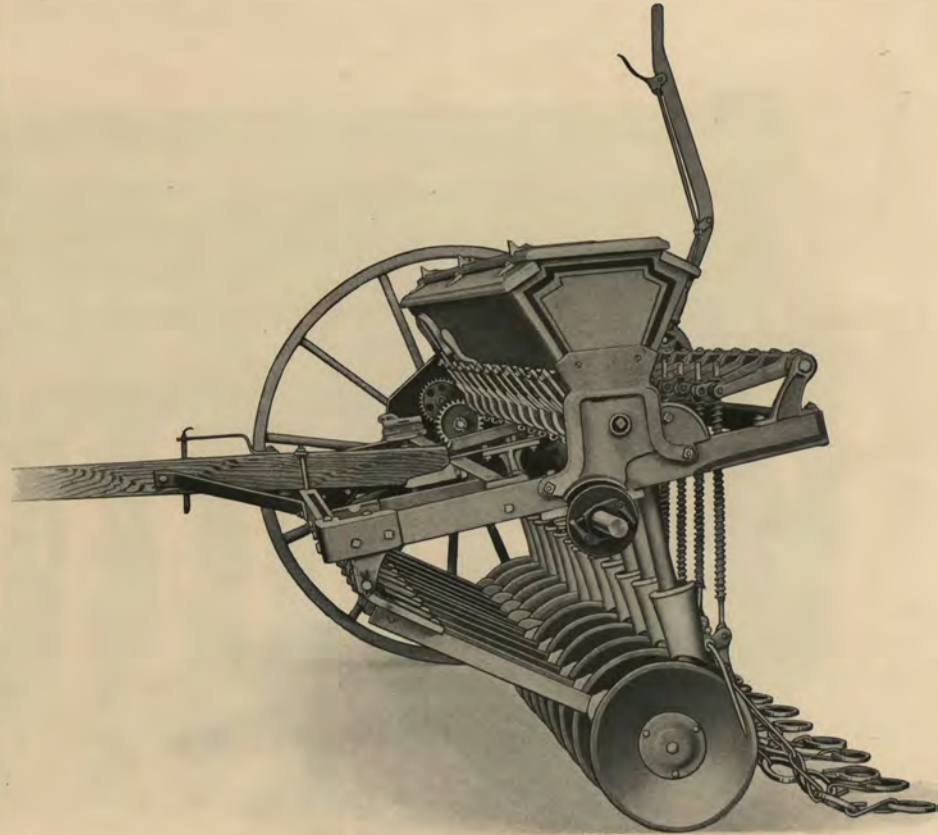
BENT LEVER.

ANGLE STEEL

DRAW BARS.

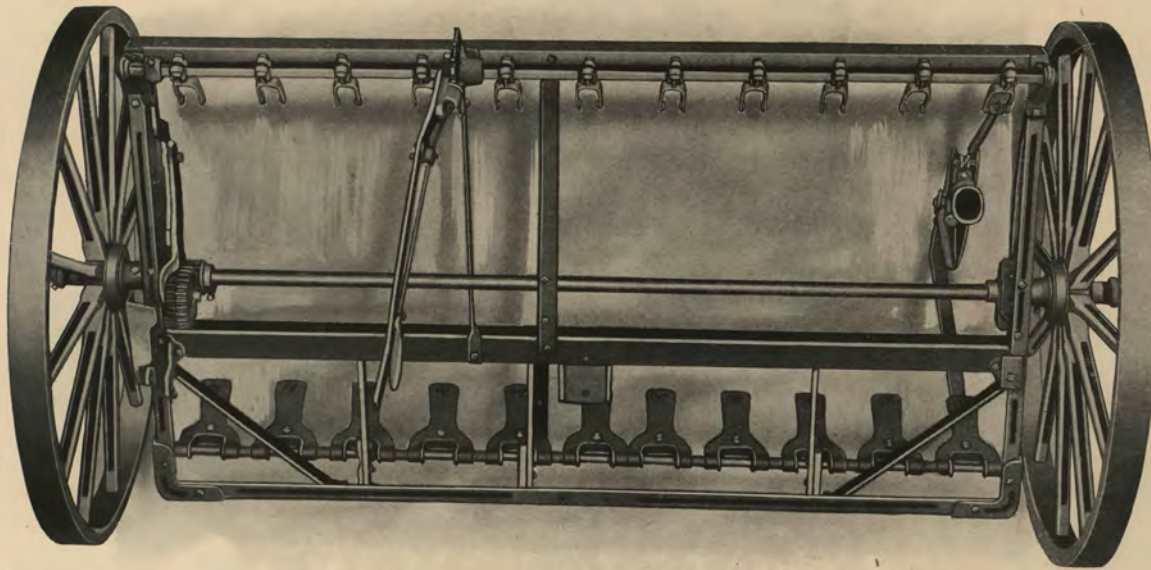
STRONG WHEELS.

View of 12x7 plain disc drill with wheel removed. Notice the simplicity and uniformity. Cut also shows driving connection, which works in the hubs of the wheels. Box is placed a little to the rear of center, which relieves the horses of neckweight. There is less neckweight with the CROWN than any drill made.



End View Disc Drill

The Invincible Frame



A skeleton view of the disc drill frame is given here.

Notice the strong bracing and generally strong construction.

The draw bars are attached by bolts and are adjustable. No pins or spring cotters to lose at a busy time.

Heavy, durable drawbar hangers. Simple to the minutest detail.

EQUIPMENT OF CROWN DRILLS.

Wood or steel wheels as desired.

Disc or Hoe—6, 7, or 8 inches apart.

10x8 and under are regularly equipped with two horse hitch and one pole.

11x6 and larger are regularly equipped with 3 horse hitch.

USE A CROWN DISC DRILL AND GET BEST RESULTS.

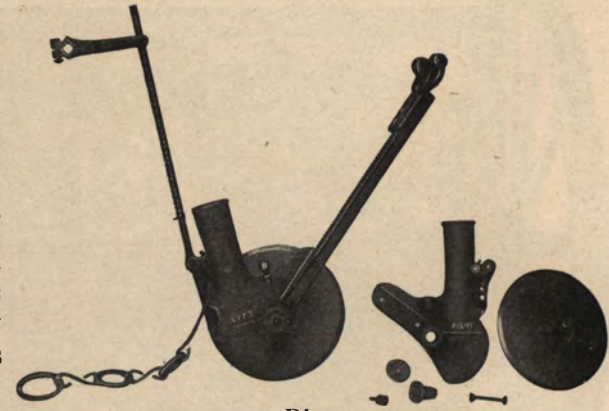
Honest Construction — CROWN DISC DRILLS EXCEL — Results

The Disc and Boot

THE DISCS used on the CROWN drill are the best that money can buy or that skill can produce.

CROWN cast bearings are simple, strong and exceedingly durable. They consist of a chilled tapering axle and a chilled removable sleeve, both held in place by a heavy bolt.

This two inch tapering axle is cast on the hollow side of a cup shaped base, five inches in diameter, which is riveted to the disc. The removable sleeve within which the axle revolves, fits into the hanger with oil slot up and directly beneath a large oil conduit or cup giving two chilled surfaces working together, properly lubricated, resulting in the least possible friction and wear, consequently light draft and great durability. A dust cap placed over the bolt protects the bearings from dirt and sand.



THE HOPPER

The Hopper or box is made of the best grade of most highly seasoned poplar, well primed and painted, making a good appearance, and at the same time preserving and lengthening the life of the drill.

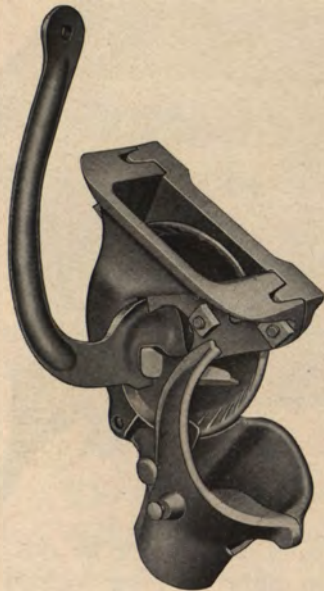
WHEELS

Either wood or steel wheels of the best type can be furnished.

THE TEST

Every CROWN drill is set up at the factory and run by a band for testing purposes and inspection. Very few repairs needed on CROWN drills.

The Crown Force Grain Feed



Grain Run

kidney beans, corn, oats, wheat or even beet seed can be handled equally well.

In the construction of the CROWN drill, the loss of time and labor in adjusting gears and turning plates in the seed box, has been eliminated, and all adjustments can be made instantly by merely moving the gate by means of a conveniently placed lever on the front of the box.

THE CROWN drill has the only perfect force feed for grain.

There are no gear wheels to be changed for regulating quantity or size of seed to be sown. The cup shaped feed wheel is turned by a square feed shaft running through its center. This feed is an absolute positive force feed, small angular ridges being cast in the cup. These ridges hold and force the grain to the opening at the top of the grain tube.

The regulation of the feed for large or small grain or for greater or smaller quantities, is accomplished by the use of an adjustable gate, as shown in the cut.

The connection with the lever and the working of the gate is shown in the two cuts shown on this page. One can readily see the ease with which the changes can be effected by merely shifting the gate, which can be locked at any point by a conveniently placed thumb nut in the pointer on the dial.

The cupshaped feed wheel offers a large capacity to the distributors for sowing the largest and the smallest seeds with equal effectiveness, without cracking or spoiling the grain. Thus,



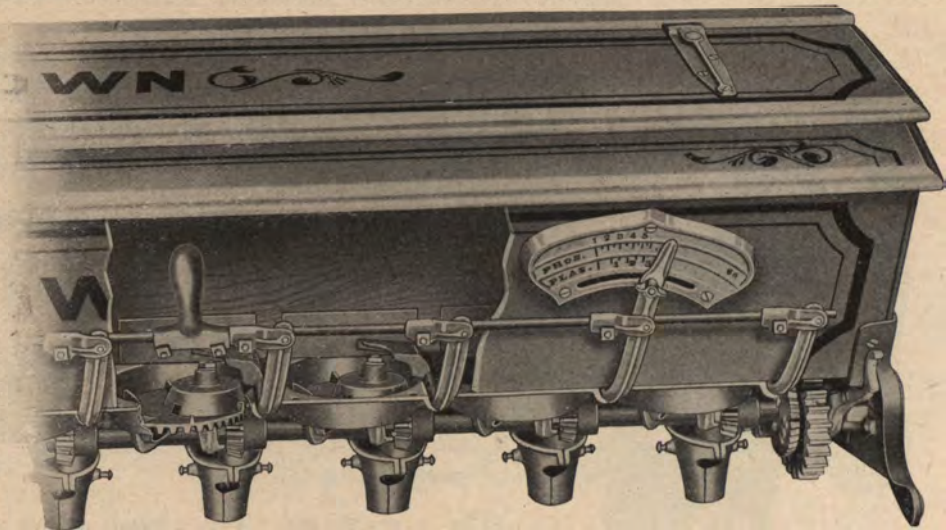
Dial and Pointer

The Crown Fertilizer Attachment

ONE of the most popular and exclusive features on the CROWN drill is the fertilizer feed. The great difficulty in handling commercial fertilizer has been overcome in the CROWN. A large quantity of the fertilizer used is damp and sticky. This clogs and causes breakage and expense, but not so with the CROWN, a phantom view of which is shown here.

It has been described as a "wheel within a wheel". The larger wheel or plate is revolved, its under face being geared with a small pinion working on the fertilizer feed shaft. The outer edge of the upper face is supplied with several small teeth. On the right hand side of this larger or main fertilizer feed wheel is placed a smaller one working on an eccentric shaft, with slots so arranged as to mesh with the teeth on the main wheel. As the wheels revolve, the fertilizer is forced into the opening at the back, and at the same time the main wheel is cleaned each time around.

The quantity is regulated by the gate over the opening. This gate can be readily raised or lowered, without removing bolts or screws, as it is connected with the pointer moving over the dial



Phantom View of Fertilizer

on the rear side of the hopper as shown in cut. This, the same as the grain gate can be locked by merely tightening the thumb nut on the indicator or pointer. An agitator works over each feed, insuring an equal flow at all times.

The land measure or surveyor is connected directly with the fertilizer feed shaft and gives an accurate account of the acres and fractions thereof.

The fertilizer and grass seed attachments can be thrown out of gear instantly, by means of small levers, without stopping the team.

Honest Construction — CROWN HOE DRILLS — Results

UNLIKE the disc drill, the CROWN hoe drill has a wood frame, made of the best grade of seasoned maple.

In most territories where the hoe drill is used, the heavy wood frame is preferred. Like the disc drill its power is derived instantly and it is unnecessary to back up the team before starting, after stopping in the middle of the field.

The box covers are so constructed as to overlap each other, to prevent any rain or moisture entering the boxes.

Grain, phosphate and grass seed can be sown together, or any one or two or all of them can be thrown out of gear in an instant, working the same as on the disc drill.

The Roll Lever and Latch is a novel departure for raising and lowering the hoes, which is

easily accomplished by using one hand only.

The CROWN is equipped with a tube shifter, allowing the teeth several different positions, according to the existing conditions.

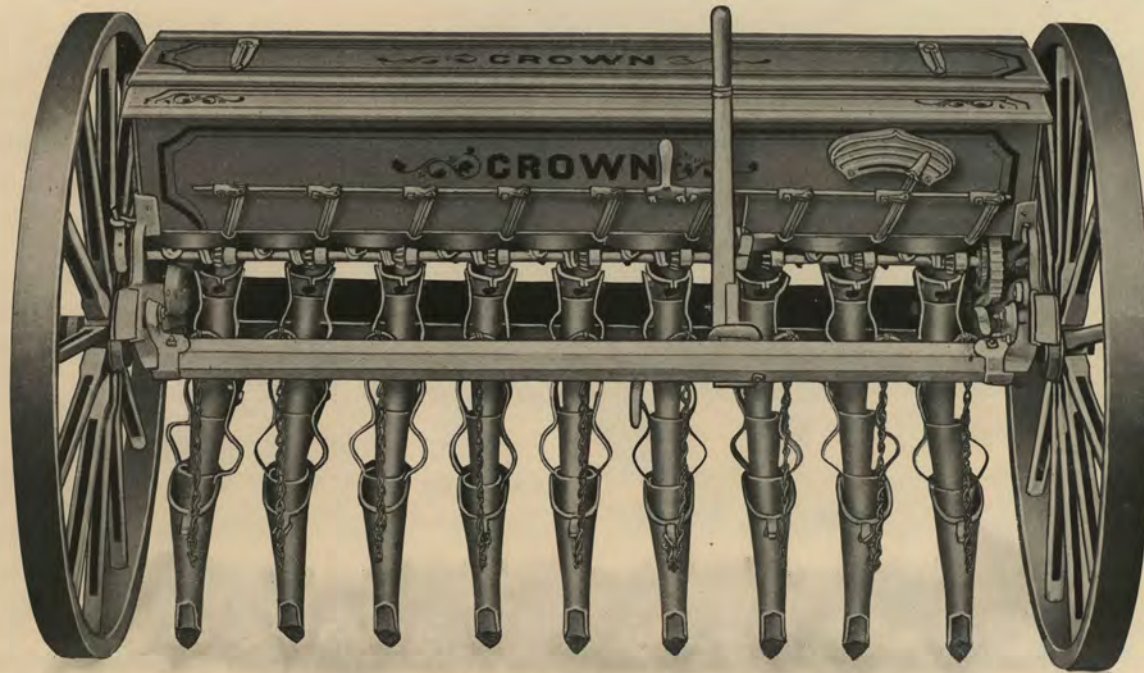
The grass seed can be sown either in the front or in the rear of the hoes, by an accurate and even grass seed distributor.

The driver can at all times see the grain dropping, thus being in a position to know just how the machine is working.

Crown hoes are made of good castings, and equipped with the best reversible pointed teeth.

The CROWN hoe drill has made good for the past thirty years and is at all times improved and kept up to date in every respect. It is now far in advance of a great many of the machines now being placed on the market.

Honest Construction — CROWN HOE DRILLS — Results

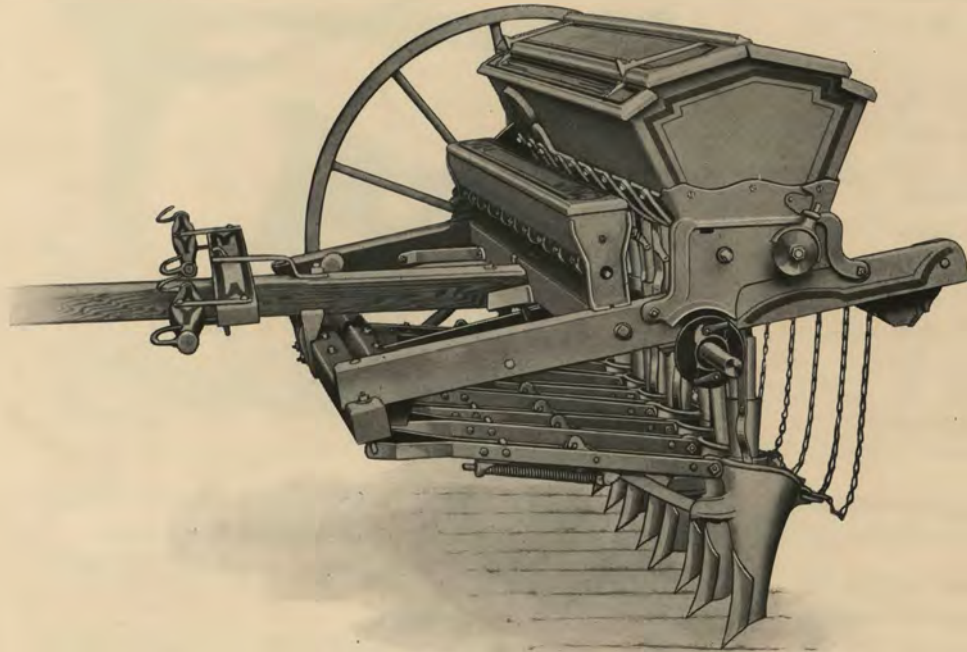


Rear View Hoe Drill

9 x 7 Combined Hoe Drill.

This rear view shows the very simple manner in which you can change the quantity of fertilizer as well as the lifting attachment for the boots. Land measure is shown at the left under the hopper.

Honest Construction——CROWN HOE DRILLS——*Results*



End View Hoe Drill

Notice the solidity of the frame construction, also the symmetry throughout. Everything is in perfect line and made to work to the best advantage. There is less breakage on CROWN DRILLS than any drill made.

HERE is shown an end view of the hoe drill with the wheel removed, showing the strong double draw bars, well braced and bolted.

The spring attachment is also shown plainly.

Simple in every respect and at the same time durable, and perfect in its work.

Here is also shown the eccentric arrangement for operating the agitator in the fertilizer box.

The grass seed attachment is placed a little to the front of the main hopper, on the frame, which allows us to do away with the superfluous gear changing found on other drills.

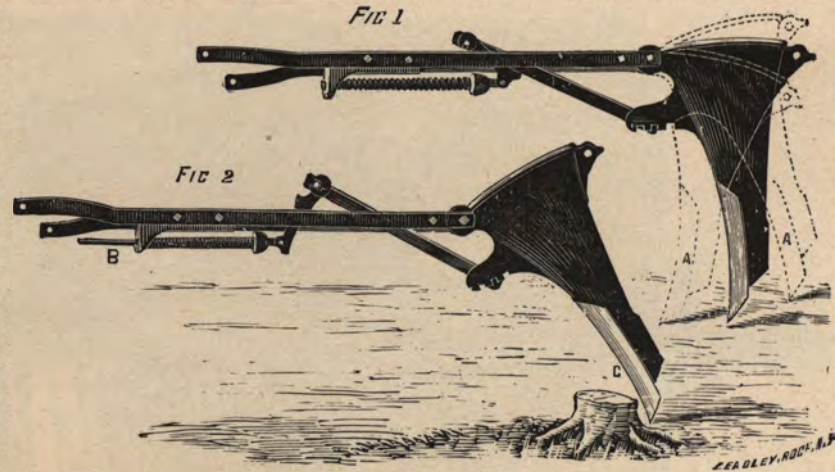
Crown Hoes

FIGURES No. 1 and 2 in the accompanying cut are views of our new spring hoe.

Figure 1 shows the hoe first in its natural position, locked and ready for use. Figure 2 shows its position, appearance, and operation when meeting an obstruction. The locking stud is, by a sudden strain thrown on the tooth, unlocked off its center. The plunger bolt B is pushed forward and the spring compressed, and the tooth turns back and passes easily over the obstacle, then instantly is forced back by the spring to its natural position and locked again.

The springs have but a slight pressure on them when the teeth are working naturally.

In Figure 1 we show by dotted lines the pitching of the tooth forward or back, for deep or shallow work. The method will be readily seen by examining the cuts. It is so quickly and easily done that the whole of the teeth may be pitched on a drill while changing one wooden peg in the old way.



This spring hoe is very simple, very strong, and does away entirely with the wooden pins. It requires no attention and works perfectly in roots, stumps and stones.

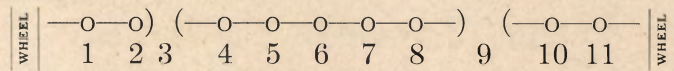
The hoes are provided with durable reversible steel points.

Crown drills are furnished with **SPRING HOES**, (unless ordered without).

To Plant Corn

BY use of shut-off tins, and by the removal of a set screw from the bevel gear of the corresponding fertilizer run, the operator is enabled to use alternate runs for planting corn, beans, peas, etc., and fertilize only the seed rows.

Our 11 disc or hoe drill is better adapted than other sizes for corn planting, as with this size two rows can be planted at once, three and one-half feet apart, and the wheel marks used as markers in driving, as will be seen by the following illustration:



Sow with runs Nos. 3 and 9, shutting off the others.

To plant seed in rows fourteen inches apart, use runs Nos. 1, 3, 5, 7, 9, and 11. To plant seed in rows twenty-eight inches apart, use runs Nos. 2, 6 and 10, and still have the wheel marks for guides.

By reason of our continuous revolving polished steel axle taking its power from both wheels, and our extreme simplicity in gearing, without altering the motion of distributors in sowing either large or small quantities of either large or small grains, our large sized drills are **LIGHTER IN DRAFT** than the ordinary 8 x 8 drills of other makes.

Our Warranty

Each machine is warranted to be well made, of good material, and capable of doing as good work, and as much, as any machine in the market, under like circumstances. If the machine, upon first trial, does not perform as above warranted, the Crown Manufacturing Company shall receive immediate notice of such failure, and be given sufficient help to give it a second trial, and

if, upon second trial, it fails to perform as warranted, then and in that case, the amount paid to be refunded, and the machine returned to place of delivery.

Continued use of the machine, or failure to notify the Crown Manufacturing Company of non-fulfillment of warranty, shall be evidence of satisfaction.

Crown Broadcast Fertilizer and Lime Sowers

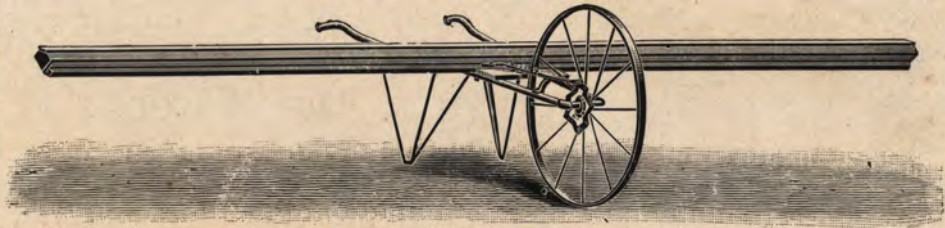


Rear View of 16 x 6 Two Horse CROWN LIME SOWER

BEST machines for sowing Lime, Fertilizer, Wood Ashes, Salt, Plaster, etc. They are simple, strong, and durable. They distribute evenly and have a large range of quantity which can be increased or decreased instantly by moving a lever. Our Lime Sowers have no gears to break. They have large capacity, are light draft and well balanced. Steel or wood wheels can be furnished. Machines can be equipped with pole or thills as ordered.

Crown Wheel-Barrow Grass Seeders

THE best machines ever made to sow Clover, Timothy, Alfalfa, Flax, Rape, Red Top, Kentucky Blue Grass, German Millet, English Rye Grass and all other grass Seeds. Light, strong and durable. No gearing. No friction. More accurate than a geared machine. Wire agitator not affected by the weather like a cord. All iron wheel, 30 inches in diameter, with broad tire, made like a bicycle wheel, and always runs true on hollow axle. Wood frame, and with 14 or 16 foot hopper.



They are made with Single or Double feed, with either Steel or

ADDRESS:

CROWN MANUFACTURING CO., Phelps, N. Y. U. S. A.