

C. WISDOM.
Corn Planter.

No. 108,865.

Patented Nov. 1, 1870.

Fig. 1.

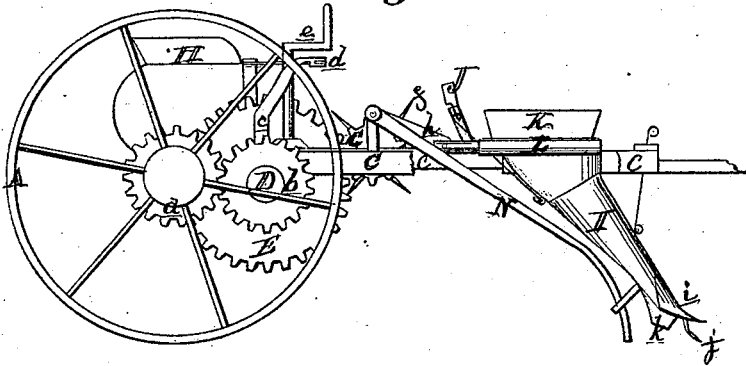


Fig. 2.

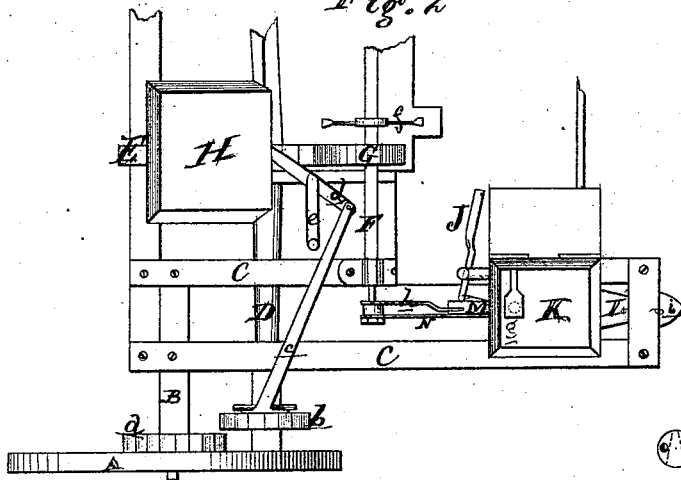


Fig. 3.



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CHARLES WISDOM, OF FLAT ROCK, MICHIGAN.

Letters Patent No. 108,865, dated November 1, 1870.

IMPROVEMENT IN CORN-PLANTERS.

The Schedule referred to in these Letters Patent and making part of the same

To whom it may concern:

Be it known that I, CHARLES WISDOM, of Flat Rock, in the county of Wayne and State of Michigan, have invented a new and useful Improvement in Corn-Planter; and I do declare that the following is a true and accurate description thereof, reference being had to the accompanying drawing, and to the letters of reference marked thereon, and being a part of this specification, in which—

Figure 1 is a side elevation of my device.

Figure 2 is a section of the same, being a plan or top view of one side, or half of the implement.

Figure 3 is a detached view of the dropper.

Similar letters of reference indicate corresponding parts in each figure.

The nature of this invention relates to certain improvements in the construction of machines for planting Indian corn, and consists in the peculiar construction and arrangement of the foot of each spout, for turning aside clods, small stones, and similar obstructions, for forming the trench, and covering the seed deposited therein; in a device for marking the place where each hill is planted; in a novel and useful dropper, for delivering the seed in regulated quantities to the spouts; and in the peculiar arrangement of its various parts, as hereinafter more fully shown and set forth.

In the drawing—

A are traction-wheels, rotating at the ends of an axle, B, on which is secured the frame-work of the machine, and so arranged as to be drawn by animal power, the axle being of such length that the traction-wheels will be the width of two rows apart, which is usually, if not universally, eight feet.

C is the frame, which consists of a pair of longitudinal bars at each side, and a central bar, the whole united by suitable cross-bars, as shown.

a are spur-gears, formed on or attached to the inner faces of the hubs of the traction-wheels.

D is a shaft, journaled in bearings in the frame parallel with the axle.

b are pinions, which have a lateral movement on the squared ends of said shaft, and are simultaneously thrown in or out of gear with the gears a by means of the clutches c, lever d, and crank e, and a clutch-collar on each, as shown in fig. 2.

When the pinions b are in gear with the spur-wheels a the shaft D is rotated.

E is a spur-wheel, rigidly secured to the shaft D, and rotates a second shaft, F, similarly journaled in the frame, through its pinion G.

f are pedals on the shaft F, by means of which the driver, sitting in his seat H, may turn over the shaft with his feet, the machine being out of gear.

I are feed-spouts, flexibly suspended in the outer sides of the frame, and may be elevated, when de-

sired, to avoid an obstruction, by means of the treadles J.

K are seed-boxes, secured to the sides of the frame over the mouths of the spouts, with an opening in the rear part of each to the rear of the mouth of the spouts, covered with a suitable slide, g.

Under each seed-box is secured a cylinder, L, with an opening in its front lower side leading to the spout below.

M is a dropper, consisting of a cylinder, the rear end of which is adjustably sleeved over the main part thereof, and having an opening therein, formed by the two parts, which can thereby be increased or diminished, at pleasure, to plant as many or as few kernels as may be desired.

This dropper M is placed within the cylinder L, and is reciprocated by a crank on the end of the shaft F, through a suitable connecting-rod, h.

In the reciprocation of the dropper it comes under the opening in the seed-box, when the opening in it will be filled with corn. In the advance of the machine, it moves forward in the cylinder, carrying the seed with it, until it comes to the opening in the bottom of said cylinder, when the seed drops into the spout below.

On the same crank-pin is secured a curved rod, N, its lower end supported and guided by an eye projecting from the spout, and, as the seed is dropped and planted, it marks the spot on the ground.

i is a guard on the point of the spout, in the general form of a double cultivator-shovel, its office being to turn aside clods of earth, small stones, and similar obstructions.

j is a tooth at the extremity of each spout, which opens a furrow or trench, in which the seed is dropped; and

k is a covering-plate, formed of a pair of wings, either attached to or made part of the spout, which, by its construction and arrangement, will throw back into the trench the earth removed by the tooth, and thus cover the seed.

The dimensions and dispositions of the various gears and parts are such that, once in each four feet, a bill will be planted by each spout.

In turning, at the end of the field, the operator throws the dropping devices out of gear, and, after completing the turn, drives so that the wheel next the last planted row will track in the rut made by it. This gives him the proper distance between rows, and dispenses with the usual preliminary marking of rows.

To make the rows parallel in the other direction, when he gets abreast of the line of rows, he plants the first pair of hills by turning over the shaft F, by the pedals, and then throws the machine in gear, and proceeds as before.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. The guard *i*, tooth *j*, and covering-wings or plates *k*, in connection with the spouts *l*, as and for the purpose set forth.

2. The combination of the dropper *M*, the cylinder *L*, the shaft *F*, the connecting-rod *h*, and the curved rod *N*, all constructed and arranged substantially as described and shown, and for the purpose of adjusting the delivering of the seed, and marking the hill at the same operation.

3. The arrangement of the wheels *A*, the gears *a*, *b*, *E*, and *G*, the axle *B*, the frame *C*, the shafts *D* and *F*, the connecting-rod *h*, the markers *N*, the seed-dropper *M*, the cylinder *L*, and the spout *l*, constructed substantially as described, for the purpose set forth.

CHARLES WISDOM.

Witnesses:

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