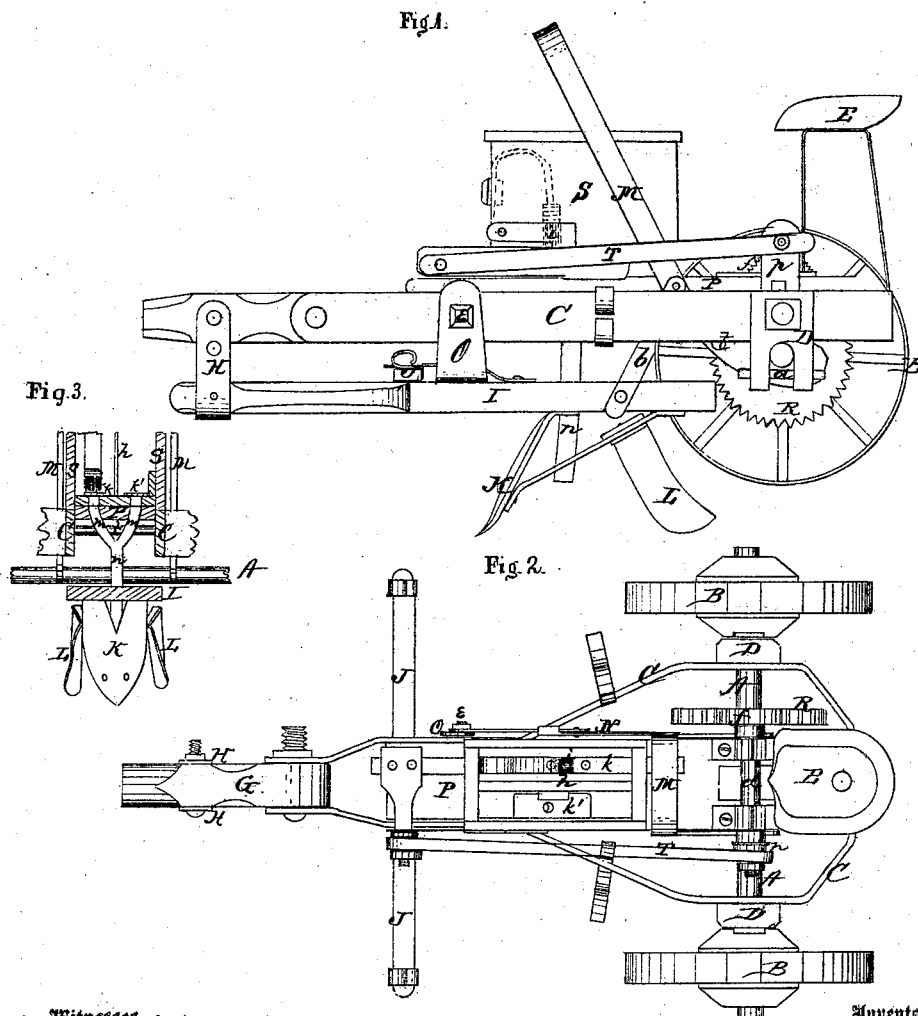


B. W. & N. Y. Remy,

Conn Drill.

No. 113,205.

Patented Mar. 28, 1871.



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BENJAMIN W. REMY AND NOAH T. REMY, OF BROOKVILLE, INDIANA.

Letters Patent No. 113,205, dated March 28, 1871.

IMPROVEMENT IN CORN-DRILLS.

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

To all whom it may concern:

Be it known that we, BENJAMIN W. REMY and NOAH T. REMY, of Brookville, in the county of Franklin and in the State of Indiana, have invented certain new and useful Improvements in Corn-Drills; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing and to the letters of reference marked thereon making a part of this specification.

The nature of our invention consists in the construction and arrangement of a "corn-drill," as will be hereinafter more fully set forth.

In order to enable others skilled in the art to which our invention appertains to make and use the same, we will now proceed to describe its construction and operation, referring to the annexed drawing, in which—

Figure 1 is a side elevation, and

Figure 2, a plan view of our machine.

Figure 3 is a transverse vertical section of the box containing the corn and fertilizer.

A represents the axle, with a wheel, B, at each end.

C is a metallic frame, of the peculiar construction shown in fig. 2, provided on each side, near the rear end, with a block, D, which is forked at its lower end, and placed over the axle A. A pin, *a*, is then passed through the prongs of said block to prevent it from coming off.

The seat E is supported upon the rear end of the frame C.

In the front end of the frame the tongue G is pivoted, said tongue being, by means of a stirrup, H, connected with a beam, I, underneath, upon which beam the double-tree J is placed.

The stirrup H passes around and is pivoted on the beam I, while its ends extend upward, one on each side of the tongue, and pivoted by a bolt passing through the same.

The ends of the stirrup H are provided with several holes, so that it can be moved, when necessary, to change the distance between the tongue and the beam underneath.

At a suitable point on the under side of the beam I is secured the furrow-plow K, and shortly in rear thereof the covering-plows L L.

The rear end of the beam I is, by means of two connecting-rods *b b*, connected with a lever, M, which is in the shape of a bail, through the ends of which the axle A passes. The arms of this bail or lever are curved forward and then upward, and the rods *b b* are pivoted to the bail just above where it turns upward.

A jointed brace, N, connects the lever M with a bolt, *e*, which passes through the frame C, and upon which is hung a stirrup, O, said stirrup being firmly

secured to the beam I. This beam is thus pivoted by means of the stirrup O, and its ends supported by the stirrup H and rods *b b*, as above mentioned.

It will then readily be seen that, by pushing the lever M forward, the plows are lowered and the brace N bent; then, by straightening said brace and raising the lever the plows are raised out of the ground.

On the bolt *e*, within the frame C, is pivoted a platform, P, at the rear end of which is mounted a shaft, *d*, provided with a pinion, *f*, at one end.

This pinion rests upon a cog-wheel, R, mounted on the axle A, so that, when the machine is in motion, the shaft *d* will have a rotary motion.

On the platform P is placed a box, S, divided into two compartments by means of a longitudinal partition, *h*. One of these compartments is for corn and the other for lime or other fertilizer.

In the corn-compartment is a slide, *k*, provided with two holes for dropping corn, and a brush, *i*, standing upright, under which the corn passes to the tube *m* when the slide is in motion.

In the other compartment is a slide, *k'*, moved by the same power and at the same time, which passes out the lime or other fertilizer. This slide has but one hole, so that the lime gets a little the start of the corn so as to reach the ground as soon as the corn. But a small quantity is required if dropped with the corn; but the quantity can be changed with different holes in the slide.

A tube, *m*, leads from each of said compartments into a main tube, *n*, which deposits the corn and lime in the ground, behind the furrow-plow K, and in advance of the covering-plows L.

The two slides *k k'* are connected with and moved by a pitman, T, which is mounted upon a crank, *p*, on the shaft *d*, from which it receives its motion.

A rod, *t*, connects the two arms of the lever M at a suitable point, so that, when said lever is raised to raise the plows out of the ground, this rod will lift the rear end of the platform P high enough to throw the pinion *f* out of gear with the cog-wheel R, and thus stop the working of the drill.

Having thus fully described our invention,

What we claim as new, and desire to secure by Letters Patent, is—

1. The arrangement of the axle A, wheels B B, metallic frame C, forked blocks D D with the pins *a*, all substantially as shown and described.

2. The beam I carrying the furrow-plow K and covering-plows L L, and supported by the pivoted stirrup O, adjustable stirrup H, and rods *b b*, substantially as and for the purposes herein set forth.

3. The lever M, placed on the axle A, and provided with the jointed brace N and rod *t*, and connected, by the rods *b b*, with the beam I, for the purpose of

raising the plows out of the ground, and also for throwing the drill mechanism out of gear, substantially as herein set forth.

4. The combination and arrangement of the platform P, carrying the entire drill mechanism, and hinged or pivoted at its front end, while the rear end is provided with shaft *d* and pinion *f*, said pinion resting upon the cog-wheel R on the axle A, substantially as and for the purposes herein set forth.

5. The brush *i*, connected to the end of a spring,

and suspended in the box S, over the slide, and operated substantially as set forth.

In testimony that we claim the foregoing we have hereunto set our hands this 14th day of January, 1871.

BENJAMIN W. REMY.
NOAH T. REMY.

Witnesses:

STEPHEN B. MOFFET,
SAMUEL S. MCKEE.