(No Model.)

H. COLE.

SEED PLANTER.

No. 268,191. Patented Nov. 28, 1882.

fig 1

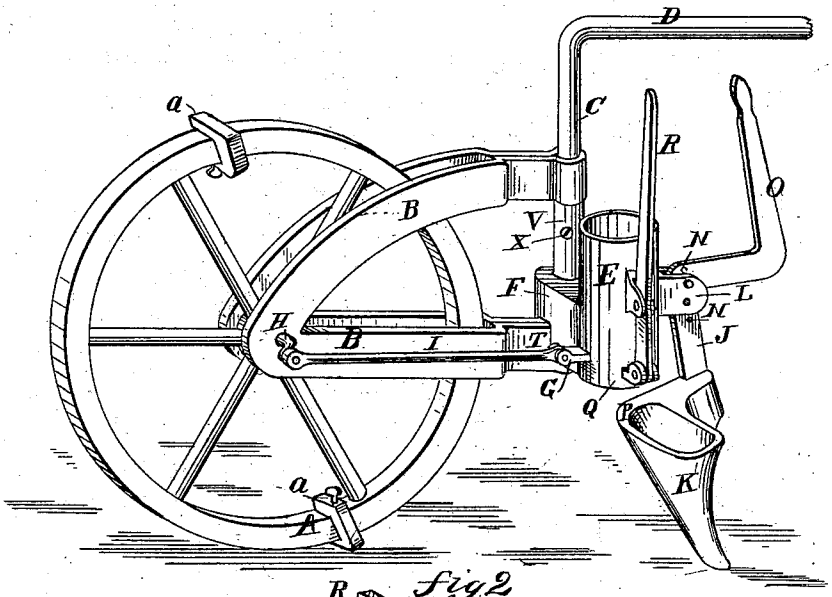


fig 2

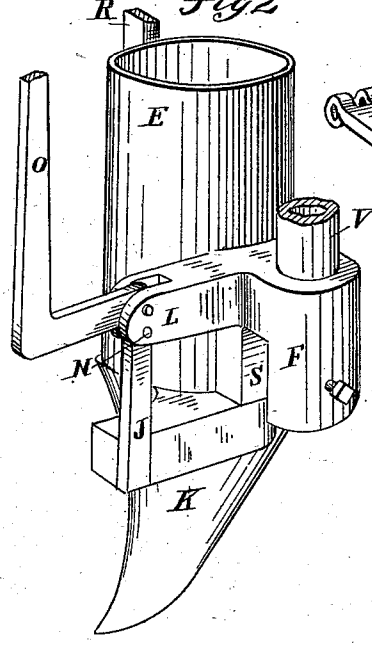


fig 3

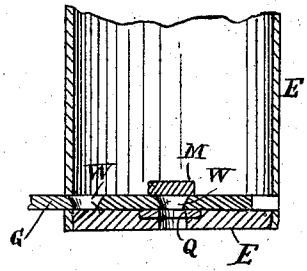
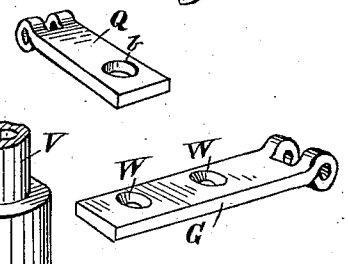


fig 4



WITNESSES:

J. D. Garfield

C. Sedgwick

INVENTOR:

H. Cole

BY Munn & Co.

ATTORNEYS.

UNITED STATES PATENT OFFICE.

HENRY COLE, OF CEDAR HILL, OHIO.

SEED-PLANTER.

SPECIFICATION forming part of Letters Patent No. 268,191, dated November 28, 1882.

Application filed April 21, 1882. (No model.)

To all whom it may concern:

Be it known that I, HENRY COLE, of Cedar Hill, in the county of Fairfield and State of Ohio, have invented a new and Improved Seed-Planter, of which the following is a full, clear, and exact description.

This invention consists of a seed-dropping and drill attachment to the riding attachment to cultivators, for which a patent was granted to me February 10, 1880, No. 224,390, whereby said riding attachment may also be utilized for a planter. The said riding attachment to cultivators consists essentially of a couple of wheels for supporting a seat for the driver, swiveled by means of suitable brackets to the vertical arms of a couple of bars extending forward horizontally from said vertical arms to a cranked axle of a front truck, to which the cultivator-beams are attached; also the draft attachments to which the horses are hitched, the seat for the rider being attached to the aforesaid vertical arms to which the hind wheels are swiveled.

This invention consists of the application of the dropping attachments and drills to these swivel-jointed wheel-connections with the frame-bars of the aforesaid truck-frame, as hereinafter described and claimed.

Reference is to be had to the accompanying drawings, forming part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 is a perspective view of one side only of my improved seed-planter, which represents the invention as fully as if both sides of the machine were drawn. Fig. 2 is a perspective view of the seed-box and drill, showing the opposite side of Fig. 1. Fig. 3 is a section of the seed-box, and Fig. 4 represents different slides to be used in the seed-boxes for different purposes.

A represents the supporting-wheel; B, the bracket; C, the vertical arm, and D the horizontal arm of the frame-piece, to which said bracket B is swiveled, as in the truck attachment to cultivators of my former patent, above referred to.

Using the same truck contrivance both as to the fore part (not shown) and the hind part, as herein represented, so as to utilize one and the same truck for a seed-planter as well as for a riding attachment for cultivators, I now propose to attach the seed-box E to the bracket B and swivel-arm C of the truck-frame by means of the block F, or in any other approved way, and provide said seed-box with a dropping-slide, G, to be worked by the crank H and connecting-rod I, and to the seed-box support I pivot the standard J of the hollow drill K by the forked stud L, making a series of holes, N, for the pivot-bolt, as a means for varying the depth of the drill in the ground. Above the pivot the standard is bent into an elbow-lever, O, to be used for lifting the drill out of the ground by swinging said lever backward and hooking it or otherwise fastening it to the seed-box or some hook or eye stud thereon. When the drill is at work it swings under the lower end of the seed-box and bears by its upper end, P, against the seed-box. By the lever O the drill is raised and supported above ground when passing from row to row at the side of the field, and elsewhere when the seed is not to be dropped.

Q represents a slide that I fix in the side of the seed-box, with a handle, R, to work it for a cut-off, to prevent the dropping of seed by the slide G when the machine is moving about over places where it is not desired to plant the seed.

The block F, to which the seed-hopper E is attached, has a notch or slot, S, in the under side to fit on the lower member of the bracket B at T, and it also has a hole for the vertical arm C of the frame-bar, which passes through said hole between the two members of the bracket, and there is a washer-tube, V, fitted on the arm C over block F and under the upper member of the bracket B, and fastened by a set-screw, X, to connect arm C and the bracket, and to keep said block in position on the lower part of the bracket.

The dropper-slide G has two holes, W, for dropping the seed twice for each revolution of the wheel A. The dropper-slide G drops the seed through the hole *b*, cut-off slide Q, when the said slide Q is set by the lever R so that the hole of Q is coincident with the hole in the bottom of the hopper, but the seed is cut off from dropping whenever required by shifting slide Q by lever R, said slide Q being arranged to shift transversely to the dropper-slide.

A cross-bar, M, fixed in hopper E, limits the discharge of seed to the amount of seed contained in apertures W of slide G.

In practice the wheel A will have check-row markers *a* of any approved kind attached to the rim to check-mark the ground where the seeds fall when planting in hills; but they will be removed when planting in drills, for which the machine is alike useful, by using dropper-slides with more holes. The wheels A will be lifted and shifted to set these check-markers right at each outset from the side of the field.

It will be seen that the planting attachment can be readily removed by taking out set-screw X for the use of the wheel and frame for part of the riding attachment to cultivators, as before.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The combination of the seed-dropping apparatus and drill with the wheel A, swivel-bracket B, and frame-bar C D, substantially as described.

2. The seed-hopper E, detachably connected to swivel-bracket B, and arm C, substantially as herein shown and described.

3. The seed-hopper E, connected to bracket B, and frame-bar C D, substantially as herein shown and described, and having dropper-slide G, connected to crank H of wheel A, substantially as specified.

4. The seed-hopper E, having drill K attached, and being connected to swivel-bracket B, and frame-bar C D, and also having dropper-slide G, connected to crank H, substantially as described.

5. The combination of seed-hopper E, block F, washer-tube V, and set-screw X, with swivel-bracket B and vertical arm C, substantially as herein shown and described.

HENRY COLE.

Witnesses:
EDWARD SOPER,
EMMA SOPER.