

(No Model.)

T. L. CROMER.
CORN PLANTER.

No. 421,674.

Patented Feb. 18, 1890.

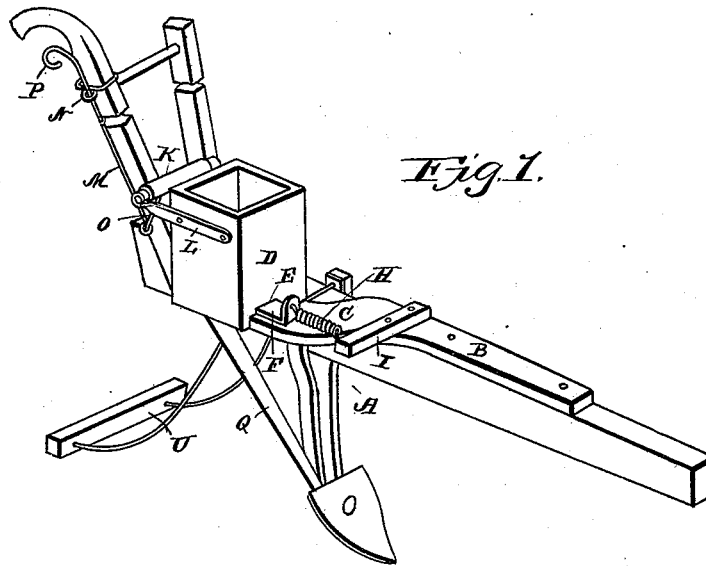


Fig. 1.

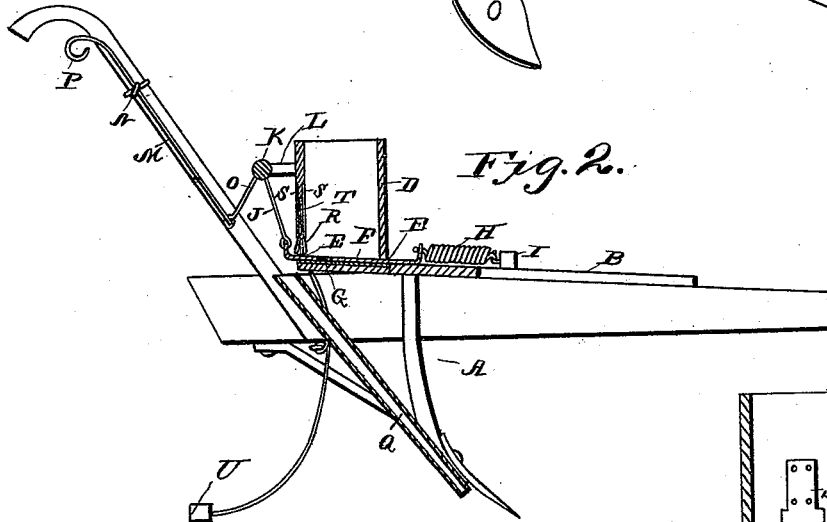


Fig. 2.

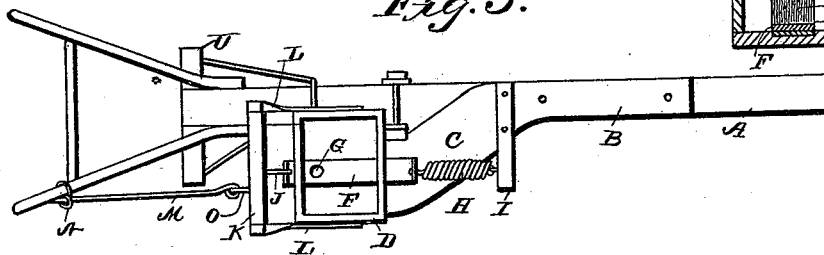


Fig. 3.

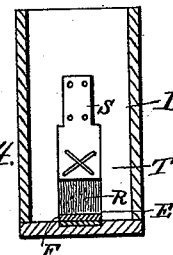


Fig. 4.

Witnesses

Inventor

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By his Attorneys,

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UNITED STATES PATENT OFFICE.

THOMAS L. CROMER, OF OLMUS, TEXAS, ASSIGNOR OF ONE-HALF TO CHARLES SCHUWIRTH, OF SAME PLACE.

CORN-PLANTER.

SPECIFICATION forming part of Letters Patent No. 421,674, dated February 18, 1890.

Application filed August 8, 1889. Serial No. 320,138. (No model.)

To all whom it may concern:

Be it known that I, THOMAS L. CROMER, a citizen of the United States, residing at Olmus, in the county of Guadalupe and State of Texas, have invented a new and useful Corn-Planter, of which the following is a specification.

My invention relates to improvements in corn-planters; and it consists in certain novel features hereinafter described and claimed.

In the accompanying drawings, Figure 1 is a perspective view of my improved planter. Fig. 2 is a vertical longitudinal section. Fig. 3 is a plan view of the same. Fig. 4 is a detail view showing more clearly the construction of the brush attached to the rear wall of the hopper.

In carrying out my invention I employ a shovel-plow A of the usual construction, and to the upper side of the beam of said plow I secure the plate B, having an outward and rearward extension C, on which a hopper D is secured. The hopper is provided in its front and rear sides and adjacent to its bottom with the openings E, through which the seed-slide F moves. The said seed-slide is provided near its rear end with the seed-opening G, in which the seed collects and by which it is discharged into the planting-tube, and the slide is normally drawn forward, so as to have the said opening within the hopper, by a spring H, having its rear end secured to the slide and its front end secured to a suitable block I on the plate B. The rear end of the seed-slide is loosely connected with the lower end of a crank-arm J, depending from a rock-shaft K, which is journaled in suitable brackets L. The said rock-shaft is vibrated by means of a lever M, which lies alongside the handle of the plow and is mounted in a suitable bearing or loop N thereon and a crank-arm O, extending from the rock-shaft and connected to the said lever. The upper end of the said lever is provided with a ring or eye P, adapted to receive the finger of the driver.

To the rear end of the plate B, and adjacent to the rear opening E in the hopper, I secure the upper end of the conducting-tube Q, which extends downward to a point in rear of the plow-shovel, and is secured to the plow-

standard, so as to be held in a proper operative position. The seed is removed from the hopper by the seed-slide and dropped from the slide into this conducting-tube, and passes through the same to the ground. The seed is prevented from passing from the hopper in large quantities by the brush R, which is secured in the rear wall of the hopper and bears on the seed-slide. This brush is composed of the metallic plates S, which are secured to the rear wall of the hopper, and the bristles or fibers T, secured between the said metallic plates. This construction provides for the easy removal of worn-out fibers and the substitution of new ones therefor. A covering bar U is arranged in rear of the plow-shovel and the conducting-tube, so as to cover the seed in the usual manner. In practice the corn or seed is placed in the hopper and the machine is then drawn over the field in the usual manner. At regular intervals the operator draws upward on the lever M, thereby vibrating the rock-shaft, so as to draw the seed-slide rearward, and consequently remove from the hopper some of the seeds which will drop through the conducting-tube to the ground. Upon relieving the pressure on the lever the spring H at once returns the seed-slide to its former position, and the machine is ready to plant another hill.

My device, it will be observed, is very simple in its construction, and can be readily operated by an unskilled person, and the hills can be planted any desired distance apart without necessitating a change of position or adjusting any of the parts.

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

1. The improved planter herein described and shown, consisting of a plate B, adapted to be secured to the beam of a shovel-plow, the hopper on said plate having an opening in its rear wall, the brush secured in said opening, the seed-slide mounted in the hopper and moving through the opening in the rear wall of the same and under the brush, the extensile spring secured to the seed-slide and arranged in advance of the same, the rock-shaft mounted on the rear side of the hopper and having diverging crank-arms, one

of said arms being connected to the rear end of the seed-slide, and the lever connected to the other crank-arm, extending upward and rearward therefrom, and adapted to be attached to the plow-handle, as set forth.

2. The combination of the plate B, having extensions C and laterally-extending arm or bracket I, the hopper mounted upon the extension of plate B, the seed-slide or coiled spring connecting the front end of the latter with the bracket I, metal plates secured to the front and rear sides of the rear wall of

the hopper above the seed-slide, the brush or cut-off arranged between said plates, and suitable operating mechanism for retracting the seed-slide against the tension of the coiled spring, substantially as set forth.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

THOMAS L. CROMER.

Witnesses:

LEOPOLD A. HUPPERTZ,
CHARLES SCHUWIRTH.