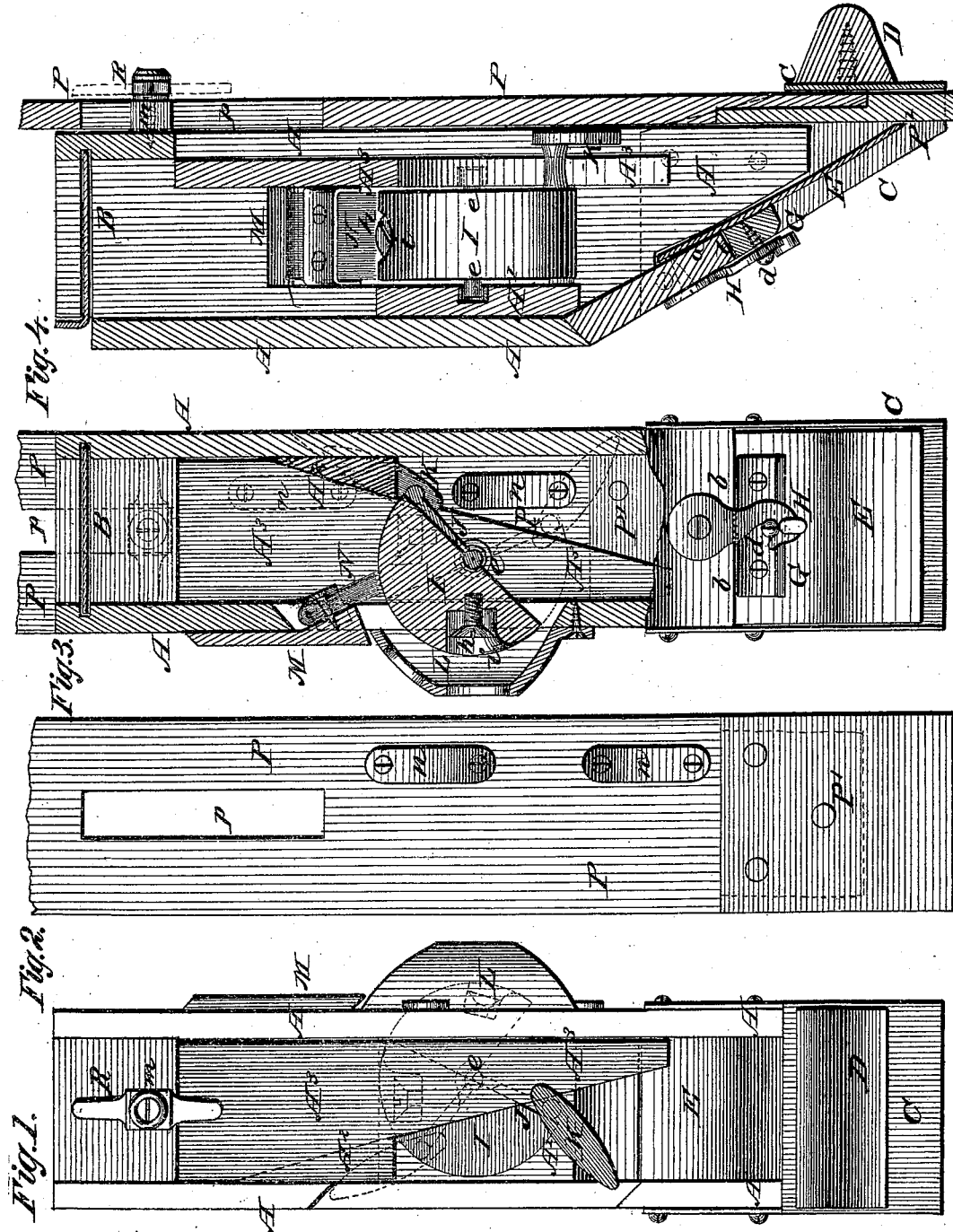


A. M. PHELPS & F. DYER.
 CORN-PLANTER.

No. 184,422.

Patented Nov. 14, 1876.



Witnesses
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UNITED STATES PATENT OFFICE

ALBERT M. PHELPS AND FAYETTE DYER, OF ROCK FALLS, ILLINOIS.

IMPROVEMENT IN CORN-PLANTERS.

Specification forming part of Letters Patent No. 184,422, dated November 14, 1876; application filed September 30, 1876.

To all whom it may concern:

Be it known that we, ALBERT M. PHELPS and FAYETTE DYER, of Rock Falls, in the county of Whitesides and State of Illinois, have invented certain new and useful Improvements in Hand Corn-Planter; and we do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

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

In the annexed drawing, Figure 1 is a rear view of the planter with the plunger removed. Fig. 2 is an inside view of the plunger. Figs. 3 and 4 are vertical sections of the entire planter.

A represents the box, made in the usual elongated form, and provided at the top with a sliding cover, B. The lower end of the box is provided with the tapering or V-shaped foot C, having across its rear side, a suitable distance above the extreme point, a block, D, to act as a stop for the entrance of the foot into the ground. The front of the foot C is formed of a spring-plate, E, the upper portion of which rests on shoulders *a a*, formed by the side pieces of the box. On the outside of the plate E is a cleat, G, which comes up against a shoulder, *b*, of the box, and has a pin, *d*, projecting from it. On the lower end of the front of the box is pivoted a hook, H, which catches on the pin *d*, and thus holds the plate E in place. By this means of fastening, the spring-plate E can easily be removed and used as a scraper for cleaning the foot when required, on the inside, of all dirt adhering thereto. I represents the dropping device, made in the form of a half-wheel or half-roller, provided on its straight side with a plate or casting, J, having projections *e e*, which form the journals upon which the half-roller rotates. At the outer end of the casting J is a projecting crank, K, as shown. At the point in the box where the half-roller I is located

the box is contracted—at the rear by a stationary board, A¹, at one side by an inclined piece, A², and at the rear by a pivoted board, A³—the journals *e e* of the half-roller I having their bearings in the boards A¹ and A³. This latter board being pivoted it can easily be turned out of the way, so as to remove the roller I, when, for any purpose, such should be necessary. Near one end of the roller I, in the outer circumference, is made the hole or recess *i*, to receive the corn, and in the bottom of said recess is a screw, *h*, for regulating the depth thereof, so as to plant more or less grains in each hill, as required. The corn, taken by the roller in said recess, is deposited in a box, L, on the side of the machine, and above said box is fastened a plate, M, to the inner side of which is attached a brush, N, extending into the box directly over the roller, and forming a cut-off. P represents the plunger, provided with a metal foot, P', and passing through the foot C of the machine, with the spring-plate E on its front side. The upper end of the plunger P has a longitudinal slot, *p*, which passes over a small block, *m*, that acts as a guide for the up-and-down movement of the plunger. On this guide-block is pivoted a button, R, which is turned to hold the plunger to the planter, and yet allow of its free movement up and down. On the inner side of the plunger P are fastened two metal pieces, *n n*, between which the crank K of the dropping-roller is placed for operation.

The operation of the machine is substantially as follows: At the upward stroke of the plunger the roller turns, to convey the desired quantity of corn to the box L. At the downward stroke of the plunger this corn falls from the box L into the foot of the planter, while the roller I returns for another hill. At the next upward stroke of the plunger the first hill drops below the plunger, and is retained in the foot C by the spring-plate E, and the second hill is deposited in the box L. Now, at the downward stroke of the plunger, the first hill is forced downward into the ground, the second hill falls into the foot, and the roller returns for the third hill, and so on.

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

1. The pivoted board A³ and stationary board A¹, arranged within the box A, in combination with the half-roller I and its journals *e e*, substantially as and for the purposes herein set forth.

2. The pivoted board A³, with roller I, crank K, plunger P, with lugs *n n*, and the journals *e e*, substantially as and for the purpose set forth.

In testimony that we claim the foregoing as

our own we affix our signatures in presence of two witnesses.

ALBERT M. PHELPS.
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