

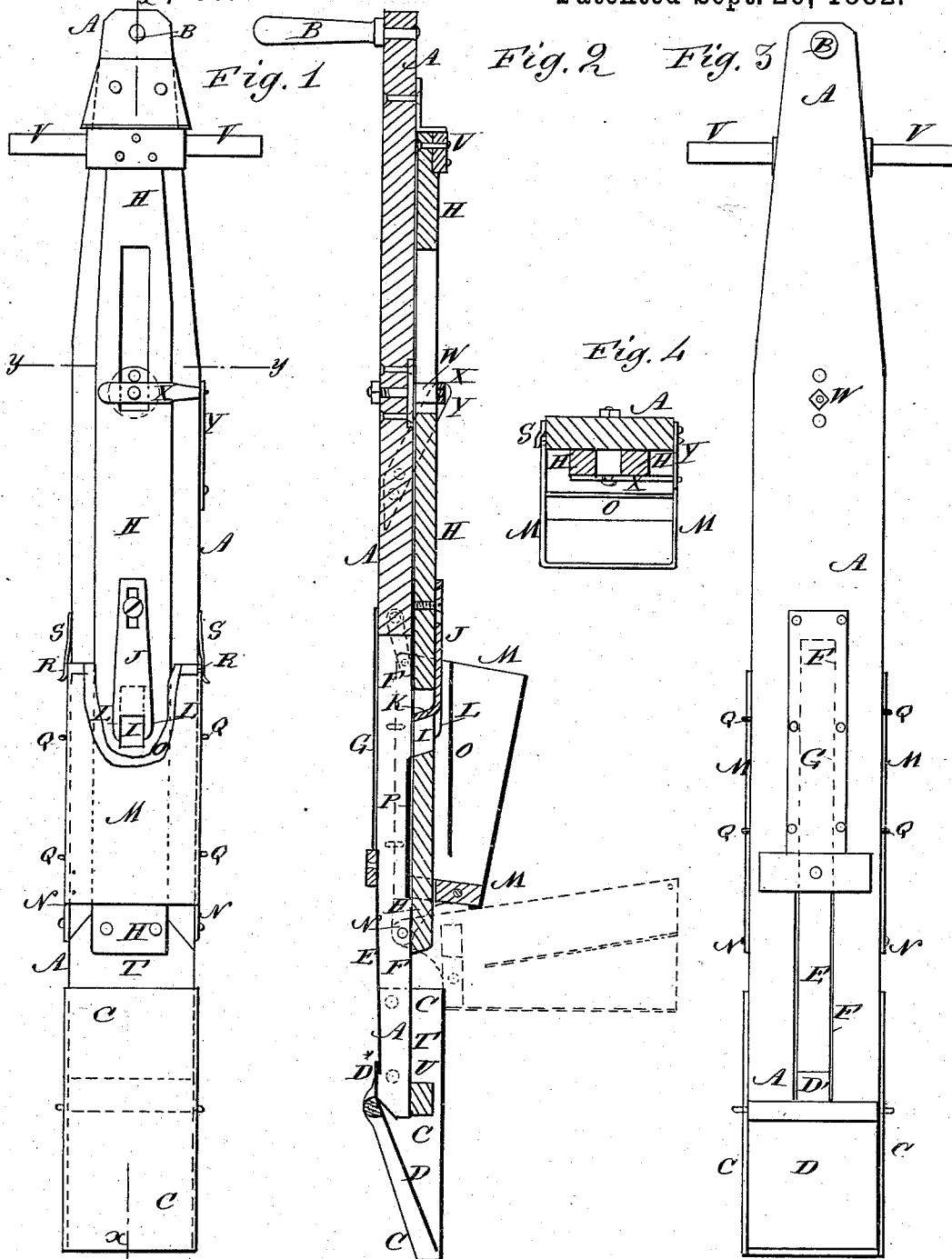
(Model.)

F. B. PRESTON & W. H. STAPLETON.

HAND CORN PLANTER.

No. 265,139.

Patented Sept. 26, 1882.



WITNESSES:

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FRANCIS B. PRESTON AND WILLIAM H. STAPLETON, OF FAYETTE, MISSOURI.

HAND CORN-PLANTER.

SPECIFICATION forming part of Letters Patent No. 265,139, dated September 26, 1882.

Application filed May 3, 1882. (Model.)

To all whom it may concern:

Be it known that we, FRANCIS BARNET PRESTON and WILLIAM HARRISON STAPLETON, of Fayette, in the county of Howard and State of Missouri, have invented certain new and useful Improvements in Hand Corn-Planters, of which the following is a full, clear, and exact description.

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 front elevation of our improvement, part being broken away. Fig. 2 is a sectional side elevation of the same, taken through the line *x x*, Fig. 1. Fig. 3 is a rear elevation of the same. Fig. 4 is a sectional plan view of the same, taken through the line *y y*, Fig. 1.

The object of this invention is to promote efficiency and convenience in the use of hand corn-planters.

The invention consists in a hand corn-planter constructed and arranged as hereinafter more fully set forth, and pointed out in the claims.

A represents the body or stock of the planter. To the rear side of the upper end of the stock A is attached the handle B, by means of which the planter is carried.

C is the shoe, which is placed in front of and at a little distance from the lower end of the stock A, and the side parts of which are bent to the rearward, and are attached to the side edges of the lower end of the said stock A. The shoe C projects below the lower end of the stock A, and has the lower part of its side edges or flanges beveled, as shown in Fig. 2.

To the flanges of the shoe C, at the lower end of the stock A, or to lugs formed upon the edges of the said flanges, is pivoted the upper edge of the plate D, which fits between the said flanges, and its lower edge is held against the shoe C by a spring, E. The free end of the spring E presses against a lug, D', formed upon the upper edge of plate D. The spring E is placed in and closes the lower part of a slot, F, formed in the stock A, and its upper end is attached to a plate, G, which covers the upper part of the said slot F, or to a small plate attached to the lower end of the said plate G. The slot F serves as a channel to conduct the corn from the seed-dropping aperture I in the

slide H to the angular space between the plate D and shoe C. The amount of seed dropped at a time is regulated by a gage plate, J, attached to the slide H, and which is made with a lip, K, projecting into the said aperture I. Upon the sides of the lower part of the gage-plate J are formed arms L, which project along the sides of the aperture I and serve as guides to direct the corn into the said aperture. The upper part of the gage-plate J is slotted to receive the fastening-screw, so that the said plate can be adjusted to regulate the size of the aperture I by loosening the said screw.

M is the seed-box, upon the lower inner corners of which are formed lugs N, which are pivoted to the side edges of the stock A to allow the said seed-box to be swung out, as shown in dotted lines in Fig. 2, so that the slide H can be readily withdrawn. The seed-box M is provided with a partition, O, extending from its upper edge nearly to its bottom, and which is placed a little in front of the slide H, so that the corn can pass below the lower edge of the partition O to enter the aperture I. The corn is kept from running out of the aperture I into the slot F before the said aperture has been raised into the upper part of the seed-box M by a plate, P, attached to the front of the stock A, and which extends from the bottom of the seed-box to a point a little above its center. The side edges of the seed-box M rest against hooks Q, attached to the side edges of the stock A. In the upper inner corners of the seed-box M are formed holes to receive pins R, attached to the side edges of the stock A, and the said corners are kept in place upon the said pins by buttons S, pivoted to the side edges of the stock A in such positions that they can be turned over the said corners, as shown in Fig. 1.

To the rear side of the lower end of the slide H is attached the upper end of a thin plate, T, of steel or other suitable elastic material. To the forward side of the lower end of the plate T is attached a block, U, of sufficient thickness to push back the plate D when the slide H is pushed down and allow the seed to drop into the soil. The slide H works up and down through a notch in the inner edge of the bottom of the seed-box M, and to its upper end is attached a cross-bar, V, to serve as a handle in operating it. The upper part of the

slide H is slotted longitudinally to receive a stud, W, attached to the stock A, and to the outer end of which is pivoted a button, X, which, when turned longitudinally with the slot in the slide H, can pass through the said slot, and thus allow the said slide to be withdrawn, and when turned across the said slot will rest against the outer side of the slide H and keep the said slide in place. One end of the button X is extended, and is pointed to enter a hole in the spring Y, attached to the edge of the stock A, so that the said button will be held securely in place.

In using the planter the operator carries the machine with one hand by the handle B and grasps the handle V with the other hand ready to operate the seed-dropping slide at the proper time. At each place for a hill the shoe C is forced into the soil, and the seed-dropping slide H is forced downward, pressing back the plate D and allowing the seed in the space between the plate D and shoe C to drop into the soil. The planter is then raised and carried forward to the place for the next hill, and at the same time the seed-dropping slide H is raised to allow the plate D to close and the seed in the aperture I to drop through the slot F into the space between the plate D and the shoe C, ready to be discharged at the next downward movement of the said seed-dropping slide H.

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

1. A hand corn-planter constructed substan-

tially as herein shown and described, and consisting of the stock A, having slot F, and provided with the shoe C, hinged plate D, spring E, and plates G P, the hinged seed-box M, having partition O, and the seed-dropping slide H, having plate and block T U, gage-plate J, and button and spring X Y, as set forth.

2. In a hand corn-planter, the combination, with the seed-dropping slide H, having seed-receiving aperture I, of the gage-plate J, having lip K, and guide-arms L, substantially as herein shown and described, whereby the seed is guided into the said aperture, as set forth.

3. In a hand corn-planter, the combination, with the stock A, provided with pinus R and button S, and the seed-dropping slide H, of the seed-box M, having its upper corners provided with apertures and hinged at its lower end to the stock, substantially as herein shown and described, whereby the said seed-box is securely held in place and can be swung back to allow the said seed-dropping slide to be withdrawn, as set forth.

4. In a hand corn-planter, the combination, with the stock A and the slotted seed-dropping slide H, of the stud W, the button X, and the fastening-spring Y, substantially as herein shown and described, whereby the said seed-dropping slide can be readily secured in place and released, as set forth.

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Witnesses:

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