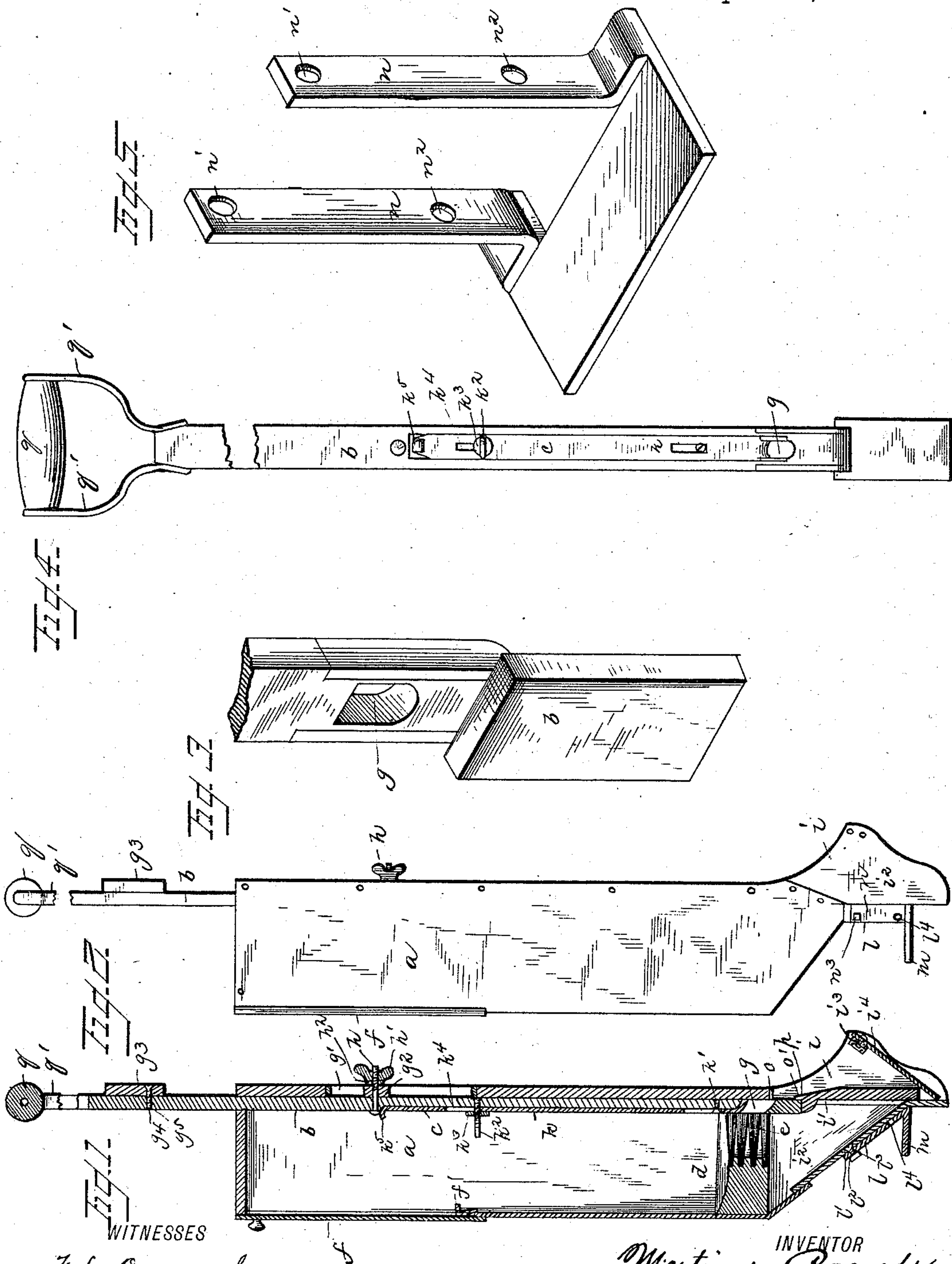


(No Model.)

M. RECORDS.
CORN PLANTER.

No. 305,473.

Patented Sept. 23, 1884.



WITNESSES
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UNITED STATES PATENT OFFICE.

MORTIMER RECORDS, OF FOREST, DELAWARE.

CORN-PLANTER.

SPECIFICATION forming part of Letters Patent No. 305,473, dated September 23, 1884.

Application filed January 22, 1884. (No model.)

To all whom it may concern:

Be it known that I, MORTIMER RECORDS, a citizen of the United States, residing at Forest, in the county of New Castle and State of Delaware, have invented a new and useful Corn-Planter, of which the following is a specification, reference being had to the accompanying drawings.

Figure 1 is a vertical longitudinal sectional view of a corn-planter embodying my improvements. Fig. 2 is a side elevation. Fig. 3 is a detail view of the plunger. Fig. 4 is a face view of the plunger, and Fig. 5 is a modification of the foot-piece.

This invention has relation to hand corn-planters; and it consists in the construction and novel arrangement of parts, as will be hereinafter fully described, and particularly pointed out in the claim appended.

Referring by letter to the accompanying drawings, *a* designates the body of the planter, which forms the corn-receptacle and incases the plunger *b*, the adjusting-slide *c*, the seed-hopper *d*, and the brush *e*. This corn-receptacle *a* is provided with a sliding door, *f*, having stop, *f'* *f'*, near its lower end, to limit its upward and downward movement. This door *f* and three sides of the receptacle are made of sheet metal, secured by screws to the wooden portions forming the top, one side of the receptacle, and the bottom of the hopper. The bottom of the hopper is of wood, as before stated, and carries the brush that sweeps the corn through the feed-opening *g*, which passes entirely through the plunger *b*, as shown. The upper portion of the hopper *d* is formed of sheet metal struck up in the dished form shown, and secured within the corn-receptacle above, but in close proximity to, the brush. The wooden side of the corn-receptacle is provided with a central elongated rectangular slot, *g'*, near its upper end, in which an adjusting-block, *g²*, removably secured to the plunger *b* by a threaded stud, *h*, a thumb-nut, *h'*, and washer *h²* slides to regulate the plunger to one of its adjustments as to depth of planting the corn. There are three adjustments for depth of planting—viz., a one-inch, two-inch, and three-inch depth—which will be further explained. I may use two interchangeable adjusting-blocks, *g²* and *g³*, the latter being longer

than the former and secured to the plunger above the top of the corn-receptacle by a screw, *g⁴*, passed through a perforation, *g⁵*, near the lower end of this block *g²*. The perforation *g⁵* is located near the lower end of the block, in order to enable me to reverse the block in the slot *g'*, to change the plunger from a three-inch to a two-inch depth of planting by using a single block. Where both adjusting-blocks are employed for the same purpose, the block *g²* is removed and the block *g³* substituted therefor in the slot *g'*. The third adjustment, which is the one-inch depth, is accomplished by adjusting the foot-piece, hereinafter described, on the lower end of the planter.

The foot of the planter consists of an open-top casting, *i*, or it may be struck up from sheet metal and compressed into form, secured to the corn-receptacle below the seed-hopper, and provided in its wall with a guideway or channel, *i'*, in which the lower end of the plunger *b* plays when the planter is operated. This casting *i* or compressed sheet-metal foot is provided between its side walls, *i²* *i²*, with a perforated connecting-bar, *i³*, to which an adjustable spring-plate, *i⁴*, is secured by a nut and screw, so that its tension may be regulated. The plunger *b* is provided with a slotted slide, *k*, which is adjustably secured thereto by a guide-stud, *k'*, near its lower end, and an adjusting-screw, *k²*, and washer *k³*, passed through a slot, *k⁴*, near its upper end. The upper end of this slotted slide is provided with a finger-piece, *k⁵*, by which it may be manipulated. The lower end of this slotted slide is bent or inclined downward and rearward into the feed-cup *g*, to give the proper direction to the corn after it is swept from the hopper by the brush. By moving the slotted slide up or down on the plunger the quantity of corn that is to be dropped may be regulated as may be desired.

The casting or sheet-metal foot *i* being open at the top, the corn may be inspected while in the pocket of the casting or foot any time before it is deposited in the ground, so that the operator can determine how to regulate the slide so as to drop the required quantity of corn in each hill. The adjustable foot-piece *l* may be constructed in either of two ways. I prefer to incline the face of the guideway or

channel in which the plunger *b* works, and perforated in the inclined face at *l'*, for the reception of a bolt, *l*², the head of which rests in a countersink in the inner face of the incline, 5 the point of the bolt projecting out through one of two perforations, *l*³ *l*⁴, in the foot-piece *l*, which is provided with the step or stop-plate *m*. The foot-piece may extend down almost to the point of the casting or sheet-metal 10 foot *i* for the one-inch adjustment, and the bolt *l*² should at this time occupy the upper hole, *l*³, in the foot-piece. For the two-inch, the foot-piece *l* should be detached and the bolt *l*² passed through the hole *l*⁴, which will raise 15 the foot-piece. The three-inch adjustment is made as hereinbefore described. In the modified form the foot-piece is provided with arms *n n*, having each two holes, *n'* *n*². The guideway in this instance is provided with a bolt, 20 *n*³, passed laterally through it in such a manner as to avoid interference with the plunger, and this bolt *n*³ may be passed through either set of holes *n'* or *n*², to effect the necessary vertical adjustment of the foot-piece. The upper 25 end of the casting or sheet-metal foot *i*, where it joins the wooden side of the receptacle, is provided with shoulders or stops *o o*, against which the upper end of the plunger-plate *o'* strikes when the plunger *b* is raised to give a 30 jarring motion to the planter to insure the discharge of the corn therefrom. The upper end of the plunger-plate *o'* is inclined, as shown, and has straight edge-ribs *p p* along the inclined face to guide the corn to the pocket in 35 the casting or sheet-metal foot, and prevent it from entering the guideway at the edges of the plunger. The ends of the elongated rectangular slot are provided with rubber cushions to prevent wear of the wood at these points. 40 The handle *q* is secured to the edges of the plunger *b* by metal straps *q' q'*, so that the spool extends parallel with the width of the plun-

ger. When the plunger descends, it forces the spring-plate out and opens the ground to the depth to which the planter has been adjusted, 45 and at the same time drops the corn from the hopper into the open pocket in the foot of the planter, where it may be inspected at any time before it has been deposited in the ground. On the upward stroke of the plunger the corn 50 falls below the end of the plunger into the bottom of the pocket, where it remains until the next downward stroke of the plunger, which then drives it into the ground to the depth to which the planter has been adjusted, 55 where it is covered by the dirt falling in over it when the planter is raised.

This corn-planter is cheap, simple, and durable, and will not get out of order. The corn-receptacle is made long, which gives the 60 planter great capacity, without materially adding to its weight. It is absolutely certain in its action, and its adjustability adapts it to different kinds of soil.

Having thus fully described my invention, 65 what I claim as new, and desire to secure by Letters Patent of the United States, is—

In a hand corn-planter, the combination, with the reciprocating plunger provided with the removable block in the elongated slot of 70 corn-receptacle, of the longer removable block provided with the hole near one end, secured to the plunger near its upper end and adapted to strike the top of the corn-receptacle when the plunger descends, substantially 75 as specified.

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

MORTIMER RECORDS.

Witnesses:

THEO. MUNGEN,

EDWARD G. SIGGERS.