(No Model.)

D. M. PARRY.

PLANTER.

No. 385,568. Patented July 3, 1888.

Fig. 1.

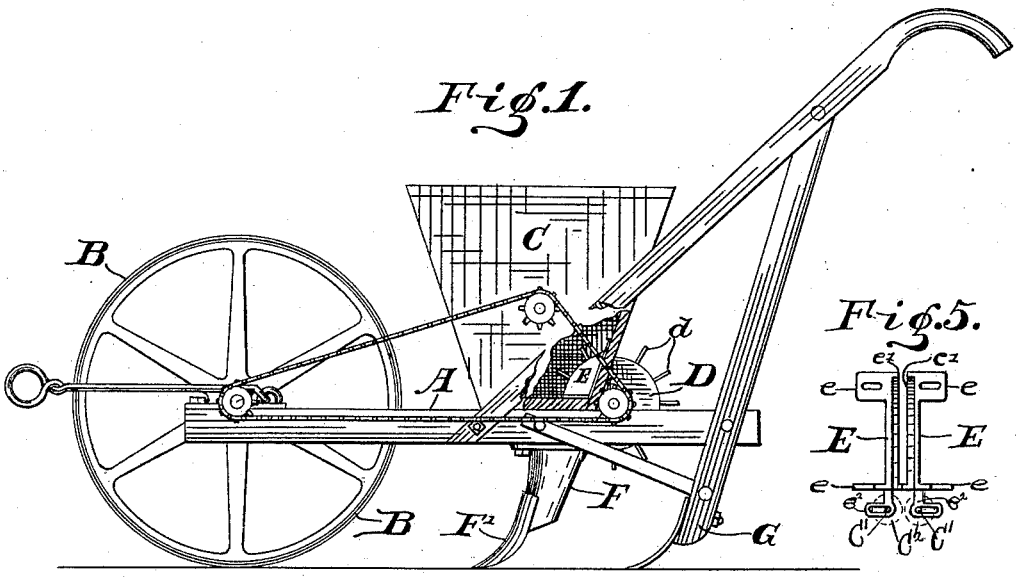


Fig. 5.

Fig. 2.

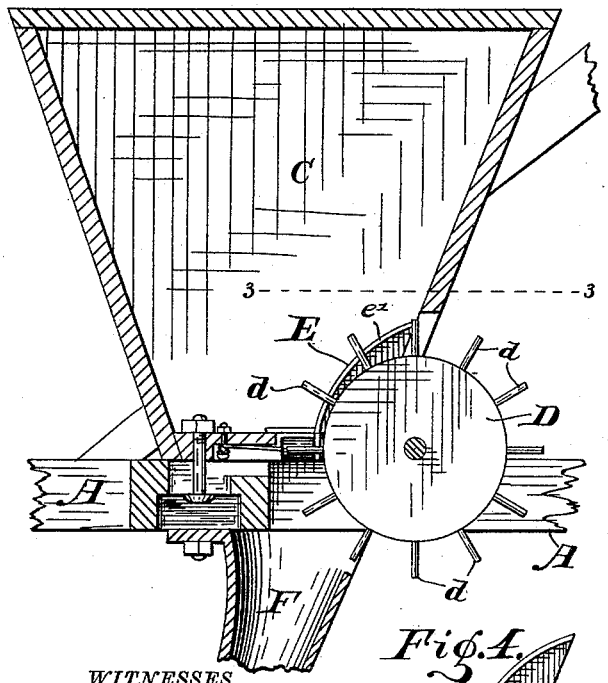


Fig. 6.

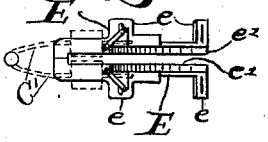


Fig. 3.

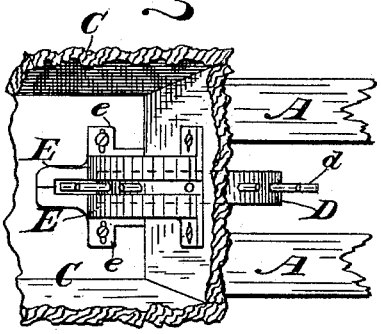
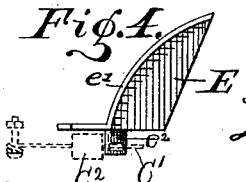


Fig. 4.



WITNESSES.

Chas. L. Leonard.

Charles L. Thurber.

INVENTOR.

David M. Parry,

PER

C. Bradford,

ATTORNEY.

UNITED STATES PATENT OFFICE.

DAVID M. PARRY, OF INDIANAPOLIS, INDIANA.

PLANTER.

SPECIFICATION forming part of Letters Patent No. 385,568, dated July 3, 1888.

Application filed July 26, 1887. Serial No. 245,327. (No model.)

To all whom it may concern:

Be it known that I, DAVID M. PARRY, of the city of Indianapolis, county of Marion, and State of Indiana, have invented certain new and useful Improvements in Planters, of which the following is a specification.

My said invention consists in certain improvements upon the invention shown and described in Letters Patent of the United States No. 325,763, dated September 8, 1885, and No. 347,637, dated August 17, 1886, whereby the feed-wheel is brought to the center of the hopper and enabled to operate there instead of at the rear side, as was the case in the inventions shown in said Letters Patent.

Said invention consists in cutting into the rear lower corner of the hopper or seed-box (instead of a mere slot) an opening sufficient to admit the full size of the wheel, and in covering said opening with curved flanged plates, and placing said plates in position inside the hopper, so as to just leave a slot sufficient for the teeth of said wheel to project through, as will be hereinafter more particularly shown and described.

Referring to the accompanying drawings, which are made a part hereof, and on which similar letters of reference indicate similar parts, Figure 1 is a side elevation of a planter embodying my said invention; Fig. 2, a central vertical section alongside the feed-wheel, through the seed-box and adjacent parts, on an enlarged scale; Fig. 3, a top or plan view of said feed-wheel and adjacent parts, as seen when looking downwardly from the dotted line 3 3 in Fig. 2; Fig. 4, a side elevation of one of the plates separately; Fig. 5, a rear elevation of both said plates, and Fig. 6 an under side plan of the same.

In said drawings the portions marked A represent the frame-work of the planter; B, its wheel; C, the hopper or feed-box; D, the feed-wheel; E, the plates, which are the feature of my present invention; F, the seed-spout, which carries the shovel F′, and G the covering-shovels.

The frame A and wheel B are or may be of the usual or any desired construction. They are shown as similar in form to those shown in my aforementioned Letters Patent No. 347,637.

The hopper C also may be of the usual or any desired construction, except that it is cut away, as before described, and provided with the plates E. It is adjustable toward and from the feed-wheel, and is similar in this particular to the construction shown in my said Letters Patent No. 325,763.

The feed-wheel D is mounted in bearings on the frame-work and provided with teeth or fingers *d*, which project more or less through the slot between the plates E, according to the position to which the seed-box is adjusted.

The plates E are formed to fit into the angle of the rear side and bottom of the seed-box or hopper, and have flanges *e*, by which they may be secured thereto. The outer portion of these plates consists, as before stated, of a curved flange, *e′*, between which and the flange *e* are the flat sides or main portions of the plates. These curved flanges extend inwardly toward each other over the periphery of the body of the feed-wheel, and come close to, but preferably not quite in contact with, the teeth or fingers of said wheel. The holes through the flanges *e* may be elongated somewhat, or made in the form of slots, so that the position of these plates E, as a whole, may be adjusted sidewise, and thus leave a wider or narrower slot between their edges for the teeth or fingers *d* to pass, as may be desired. By the adjustment of these flanges and the adjustment of the seed-box or hopper, as before described, a very simple method of securing the desired relation of parts is provided. I, however, do not wish to confine myself to adjustable plates, as non-adjustable ones are used in many cases, and are even preferred. Upon the lower portions of these plates E, I prefer to form projections e^2, having slots in which the ends of the shafts C′ for the feed-rollers C^2 or other feeding device may rest, thus combining in one part means for accomplishing both these objects.

By the use of this invention not only is a very durable and desirable covering for the feed-wheel provided, and one which may be made to conform as closely to its shape as desired, and thereby enable the teeth of the feed-wheel to operate efficiently, but also the point of discharging the seed from the hopper into the seed-spout (whence it is conveyed to the ground) is brought near the center of said hop-

per or seed-box, at which point the seed is always kept well agitated by the operation of the agitator, which oftentimes fails to reach the corner of the box from which the seed is usually fed, and thus the feed-wheel frequently makes one or more revolutions carrying with it but little seed, it having formed a path through the seed which the agitator has failed to keep filled by reason of it being unable to reach to the corner. By the use of my invention this defect is perfectly overcome and the seed is always fed from the point where it is always agitated, as will be readily understood.

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

1. In a planter, the combination, with the frame-work, of a seed-box provided with an opening to receive the feed-wheel, said feed-wheel mounted with a portion of itself extending into said seed-box through said opening, and a shield or cover secured over the part of the feed-wheel within the hopper, and extending to the bottom of said hopper, and provided with a slot or opening through which the fingers of said feed-wheel extend, substantially as set forth.

2. In a planter, the combination, with the frame thereof, of a seed-box provided with an opening in one side, a feed-wheel extending through said opening, and plates arranged to serve as a shield for said wheel, and secured to be adjusted toward or from each other, whereby the width of the slot through which the teeth of said wheel pass may be varied as desired, substantially as set forth.

3. The combination, in a planter, of the hopper, feed-wheel extending into said hopper, and the plates E, secured within said hopper to form a shield for said feed-wheel, and provided with slotted downwardly-projecting portions e^2, which support one end of the feeding devices, substantially as shown and specified.

In witness whereof I have hereunto set my hand and seal, at Indianapolis, Indiana, this 20th day July, A. D. 1887.

DAVID M. PARRY. [L. S.]

In presence of—

C. BRADFORD,

CHARLES L. THURBER.