

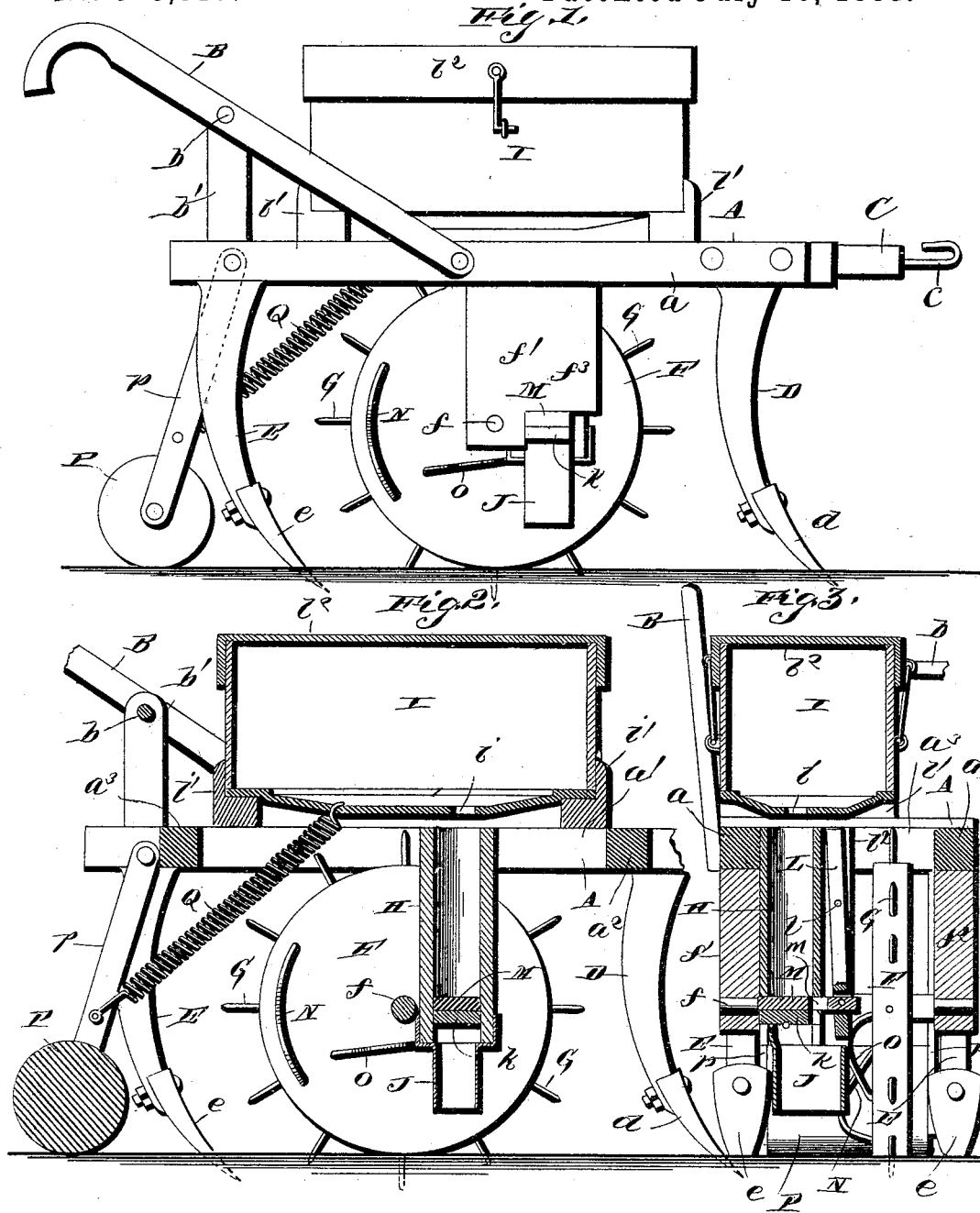
(No Model.)

H. S. McMILLION.

## CORN PLANTER.

No. 385,817.

Patented July 10, 1888.



Witnesses.

*C. S. Taylor,  
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Inventor,

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By his Attorneys

Chow Sea

# UNITED STATES PATENT OFFICE.

HIRAM SCOTT McMILLION, OF FALLING SPRINGS, WEST VIRGINIA, ASSIGNOR  
OF ONE HALF TO R. M. HARPER, OF SAME PLACE.

## CORN-PLANTER.

SPECIFICATION forming part of Letters Patent No. 385,817, dated July 10, 1888.

Application filed February 29, 1888. Serial No. 265,659. (No model.)

*To all whom it may concern:*

Be it known that I, HIRAM SCOTT McMILLION, a citizen of the United States, residing at Falling Springs, in the county of Greenbrier and State of West Virginia, have invented a new and useful Improvement in Corn-Planters, of which the following is a specification.

The invention relates to improvements in corn-planters, being more especially adapted to be used with one horse only; and it consists in the novel construction and combination of parts, hereinafter described, illustrated in the accompanying drawings, and pointed out in the appended claims.

In the drawings, Figure 1 represents a side view of a planter embodying my invention. Fig. 2 is a longitudinal section through the hopper and the dropper-tube. Fig. 3 is a transverse section of the same.

Referring to the drawings by letter, A designates the horizontal main frame of the machine, composed of the side rails,  $a$   $a'$ , and the front and rear rails,  $a^2$   $a^3$ , respectively, connecting the side rails near their ends, as shown.

B B are the handles, rising at proper points from the outside of the side rails, extending upward and rearward, and connected by the cross-bar  $b$ , to which the upper ends of the standards  $b'$ , rising from the rear portions of the side rails, are secured. The tongue C has its butt secured to the central part of the front rail,  $a^2$ , being braced by a transverse bar in front thereof, with its ends inserted in the side rails, and is provided at its front end with a staple or loop,  $c$ , for the attachment of a whiffletree or draw-bar of any suitable kind.

D is a standard or support depending from the junction of the tongue and front rail and having secured to its lower end the furrow-opener  $d$ .

E E are similar standards or supports depending from the side rails below the standards  $b'$ , and having secured to their lower ends the coverers  $e e$ , that face frontward and somewhat inward.

F is the conveying-wheel secured and turning on the transverse main shaft  $f$ , journaled in the arms  $f'$   $f''$ , depending, respectively, from the central parts of the side rails,  $a$   $a'$ , the wheel being near the side rail  $a'$ . The wheel has projecting from its rim the equidistant metal-

lic fingers G G, which keep it from slipping either backward or laterally. The arm  $f'$  has the frontward extension,  $f^3$ , to the inner side of which is fixed the dropping-tube H, which is consequently just front of the main shaft or axle  $f$ . The dropping-tube is rectangular in cross-section and communicates at its upper end with the seed box or hopper I through the opening  $i$  in the bottom of the latter, which is attached to the top of the main frame resting upon cross-pieces  $i'$   $i'$ , secured to the side rails.

The seed-box is provided with a suitable cover or lid,  $i^2$ . The dropping-tube has secured to it and depending from its lower end an extension or guide-tube, J, between the upper end of which and the adjacent end of the dropping-tube is fixed the transverse plate K, having the notch or opening  $k$  at its inner end.

L is a double-armed lever pivoted at  $l$  nearer its upper than its lower end, between the side flanges,  $l^2$   $l^2$ , standing inward from the front and rear side of the dropping-tube; and M is a slide-plate pivoted to or loosely connected with the said lever, near its lower end thereof.

The slide-plate passes into an opening in the inner side of the tube J and slides upon the plate K, having an opening,  $m$ , in it that closes the notch or opening  $k$  when the slide-plate is moved in, and that registers with said notch or opening when the said plate is moved out.

N O are curved cam-wires, with their ends secured to the inner face of the wheel F in such manner as to form elongated loops standing at nearly right angles to said face. The wire N is nearer the rim of the wheel than the wire O, and the said wires N O are respectively arranged to bear on the lever L above and below the pivotal point thereof and vibrate the lever on said point, so that the slide-plate M is reciprocated thereby, the cam-wire N sliding the said plate out from the dropping-tube and allowing seed to fall therefrom in the furrow, and the wire O moving the plate inward and cutting off the falling seed by the described means.

The cam-wires are used because they are easy to attach and detach and be changed in position; but suitable outstanding cams of any description—such as lugs—are equally available. The cam-wires have the most inclined arms in the direction in which the wheel F rotates

frontward, so that the lever L will not be jerked or jarred when moved by the said wires.

The wire O is placed so as to strike the lever just after the wire N has left the same, to prevent too much grain from feeding out at one planting.

P is a covering-roller in rear of the coverers or shares *e*, with its shaft journaled in the lower ends of the swinging arms *p p*, pivoted at their upper ends to the inner surfaces of the side rails just behind the rear rail of the main frame.

Q is a coiled spring with its upper end attached to the bottom of the hopper, and its lower end hooked into a central loop on a cross-rod, *h*, connecting the swinging arms above the roller.

The coverers *e* heap the soil from each side over the grain deposited in the open furrow and the roller evens the same.

The spring keeps the roller to the ground, whatever may be the position of the main frame.

Having described my invention, I claim—

1. The combination of the main frame, the seed-tube having flanges on its side, the double-armed lever pivoted between said flanges, the slide-plate pivoted to the lower end of said lever, the carrying-wheel, and the cam-wires N O, secured to the inner face of said wheel and adapted to contact with the lever, as set forth.

2. In a planter, the combination, with the conveyer-wheel and the cam-wires secured to the inner face thereof, of the dropping-tube, the notched plate at the end thereof, the double-armed lever pivoted thereto, and the feeding slide-plate attached to the lower part of the said lever, substantially as specified.

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

HIRAM SCOTT McMILLION.

Witnesses:

C. W. KIRSHNER,  
T. T. STEVENSON.