

(No Model.)

G. J. McMILLAN.
SEED DISTRIBUTER.

No. 325,106.

Patented Aug. 25, 1885.

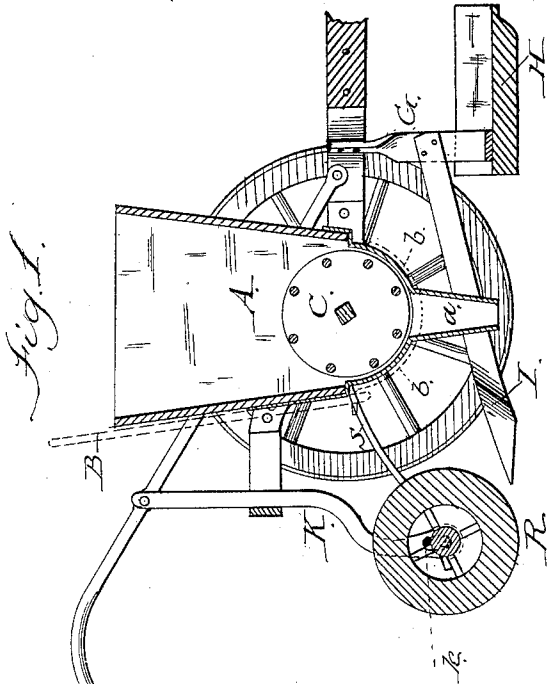
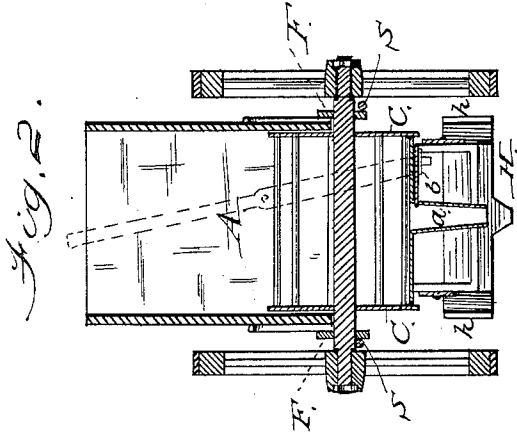
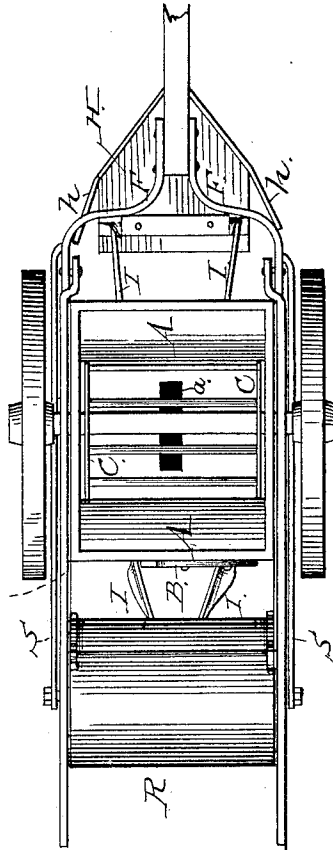


Fig. 3.



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UNITED STATES PATENT OFFICE.

GEORGE J. McMILLAN, OF TEACHEY'S, NORTH CAROLINA.

SEED-DISTRIBUTER.

SPECIFICATION forming part of Letters Patent No. 325,106, dated August 25, 1885.

Application filed July 7, 1883. (No model.)

To all whom it may concern:

Be it known that I, GEORGE J. McMILLAN, a citizen of the United States of America, residing at Teachey's, in the county of Duplin and State of North Carolina, have invented certain new and useful Improvements in Seed-Distributers; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as 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 letters or figures of reference marked thereon, which form a part of this specification.

This invention relates to the class of seeders and planters known as "distributers;" and it consists in the improvements hereinafter set forth, and then sought to be specifically defined by the claim.

In the annexed drawings, which illustrate my invention, Figure 1 is a sectional view; Fig. 2 is a transverse vertical sectional view; Fig. 3, the plan view.

A represents a suitable receptacle, which is provided with a curved metallic bottom, on which is formed a suitable distributing spout, *a*, said bottom and spout being provided with a suitable cut-off, which extends into one side of the spout, so as to close the opening in the bottom of the receptacle, the cut-off slide being pivoted to a bar, *b*, which extends under the bottom of the receptacle, and is pivoted to one side of the same, the opposite side of this bar extending beyond the bottom of the receptacle, and is attached to a lever, *B*, which is pivoted to the rear of the receptacle and extends above the top of the same.

The receptacle hereinbefore described is provided with a transverse shaft, which extends through the receptacle and the supporting-frame, the ends of this shaft being provided with wheels, one of which turns freely upon the shaft, while the other is secured rigidly thereto, so that when the wheel rotates the shaft is revolved with the wheel. The bottom of the receptacle is open at its sides, and is closed by suitable disks, *C*, which are rigidly attached to the shaft, which is rectangular in cross-sections. These disks are connected to each other by cross-bars, and the upper part of the disks are located within the sides of the

receptacle. By means of these transverse bars, which are secured to the disks, the material contained within the receptacle *A* is kept agitated, and will fall through the opening in the bottom of the receptacle to the spout *a*, hereinbefore referred to. The receptacle and shaft are mounted upon a suitable frame, *F*, which may be constructed of strap-iron in a single piece, the ends being united to a tongue or draft attachment.

In rear of the transverse shaft to which the wheels are attached the frame is bent upwardly, and it is provided at the front and rear of the receptacle with cross-bars, to which the ends of the receptacle are attached. To the front of this frame, in rear of the pole or draft attachment, are secured downwardly-projecting standards, to the base of which is attached a suitable furrow-opener, *H*, which has a central downwardly-projecting portion, which lies immediately in front of the spout attached to the bottom of the receptacle. To the base of this furrow-opener *H* are secured side wings, *h*, as shown in the accompanying drawings. To the standard *G*, hereinbefore referred to, below the frame *F*, are secured two downwardly and rearwardly projecting coverers, which extend in rear of the spout. These coverers *I* are of such construction that they will gather and throw the dirt over the furrow.

To the rear of the frame *F*, adjacent to the rear cross-bar of the same, are secured two standards, *K*, which are rigidly attached to the frame and to the handles. These standards extend above and below the frame, and are united at their upper portion to a suitable cross-bar, by means of which the handles are secured to the same, said handles being secured at their front end to the forward portion of the frame *F*. The portion of these standards *K* which extends below the frame *F* are bent rearwardly and downwardly, as shown in Fig. 1 of the accompanying drawings, their lower ends being provided with vertical slots *k*, through which passes the end of the shaft which supports the roller *R*. The shaft of this roller projects outwardly through the standards *K*. To the forward portion of the frame *F* are secured two springs, *S*, which project rearwardly under the axle and have their ends bent downwardly. These springs bear upon the end of

the projecting shaft *k*, and serve to hold the roller upon the ground, the slots in the stand-ard allowing the same a slight upward motion.

Having thus described the construction of my invention, its operation may be described as follows: When it is desired to use the im-plement, the material to be distributed in rows is placed within the receptacle *A*, and when the implement is drawn over the ground the downwardly-projecting portion of the shoe *H* will open the furrow, which furrow is im-me-diatly in front of the spout. The cut off being open and the material agitated by the rota-tion of the wheels, the same will pass through the spout and be deposited in the furrow. The coverers *I* will then throw the dirt over the furrow, and it will be pressed down upon the same by means of the roller which follows the coverer.

It will be noticed that only one of the wheels is attached rigidly to the transverse shaft, which is done for the purpose of allowing the implement to be turned easily.

By providing the roller with slots and springs the furrow-opener in the front part of the im-plement is not liable to be thrown out of the ground, as would be the case if said roller were attached rigidly to the frame.

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

In an implement for distributing seed and other materials, the frame *F*, supporting a seed-receptacle, carrying a curved bottom and a shaft journaled in said receptacle, provided with a stirrer consisting of side disks and transverse bars, the latter being adapted to be rotated by the shaft concentric with and in close proximity to said curved bottom, said seed-receptacle being provided with a central spout, and with a discharge-opening therefor, a pivoted cut-off operated by a lever centrally pivoted to the rear of the hopper, and a fur-row-opener, coverers, and a roller attached at the rear of the implement within slotted standards, and provided with springs attached to the frame, which bear upon the ends of the roller-shaft, the parts being organized and combined substantially as shown, and for the purpose set forth.

In testimony whereof I affix my signature in presence of two witnesses.

GEORGE J. McMILLAN.

Witnesses:

THOMAS MALONE,
E. W. JOHNSON.