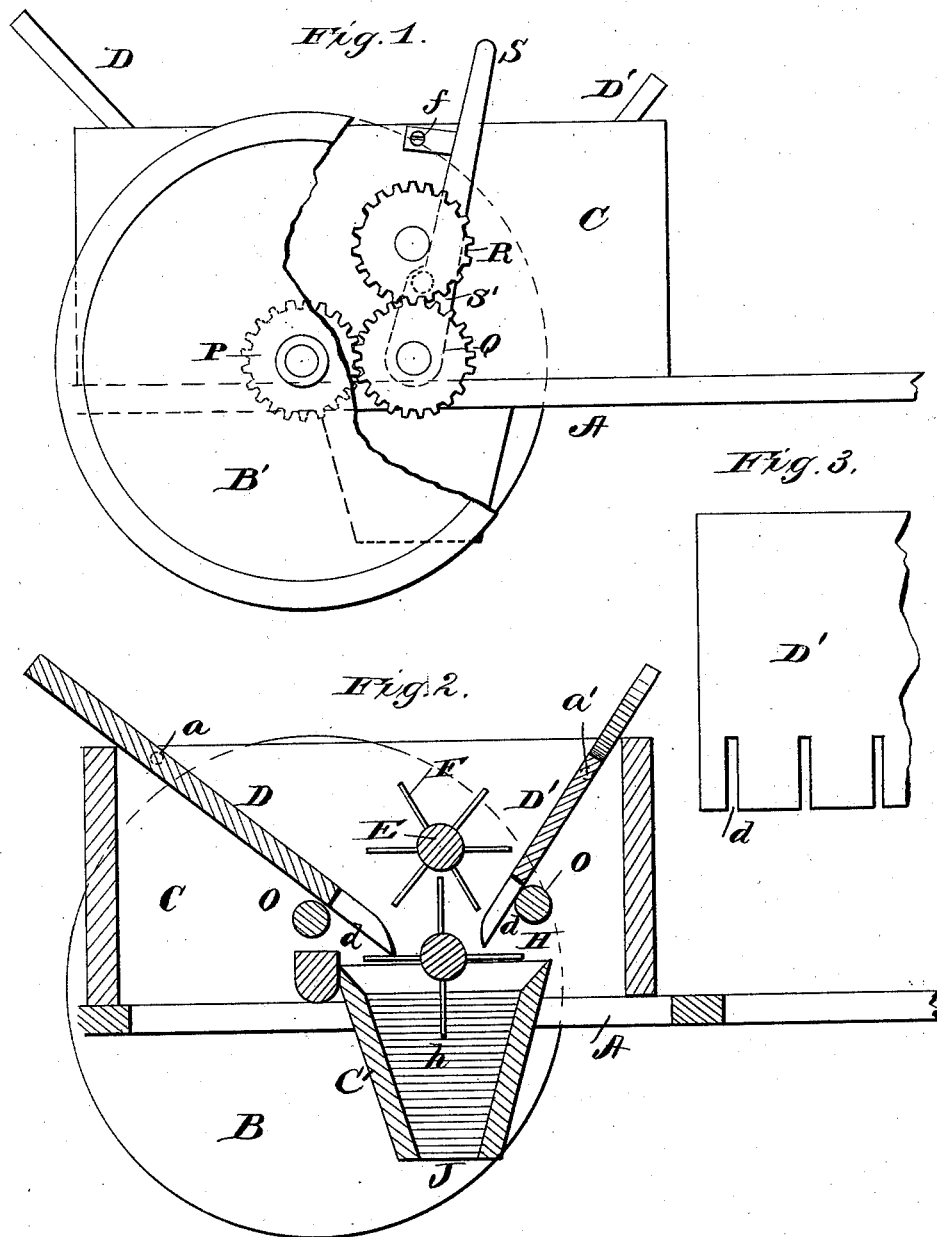


T. J. CARTER.  
Fertilizer-Distributor.

No. 216,377.

Patented June 10, 1879.



Witnesses.  
F. L. Ourand  
E. H. Bradford

Inventor.  
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# UNITED STATES PATENT OFFICE.

THOMAS J. CARTER, OF ATHENS, ALABAMA.

## IMPROVEMENT IN FERTILIZER-DISTRIBUTERS.

Specification forming part of Letters Patent No. **216,377**, dated June 10, 1879; application filed April 25, 1879.

*To all whom it may concern:*

Be it known that I, THOMAS J. CARTER, of Athens, in the county of Limestone and State of Alabama, have invented certain new and useful Improvements in Fertilizer-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 of reference marked thereon, which form a part of this specification.

Figure 1 is a side elevation, with the driving-wheel broken away to show the gearing. Fig. 2 is a vertical longitudinal sectional view, and Fig. 3 is a partial plan view, of one of the slotted hopper-boards.

The invention has relation to fertilizer-distributers; and it consists in the improvements in the construction of the same hereinafter fully described, and particularly pointed out in the claim.

In the accompanying drawings, similar letters of reference indicate corresponding parts in the several figures.

The frame A is mounted upon supporting-wheels B B', the wheel B' being the driving-wheel. A box, C, is built upon the frame A, and is provided with adjustable inclined slotted hopper-boards D D', held in place by set-screws a a'. (Shown in dotted lines in Fig. 2.)

A shaft, E, traversing the box C, is provided with teeth F, and forms an agitator for the contents of the box C. A similar shaft, H, having teeth h, traverses the box C near its bottom, directly beneath the shaft E and over the discharge-orifice J. The hopper-boards D and D' are slotted at d, and their lower points come nearly in contact with the shaft H. The set-screws a a' are used to regulate the distance between the points of the hopper-boards D D' and the shaft H, in order to regulate the quantity of material discharged.

In order to facilitate the adjustment of the hopper-boards rollers O O are placed beneath them.

A gear-wheel, P, is secured to the inner face of the drive-wheel B', and meshes with a gear-wheel, Q, on the shaft H, outside of the box C. This gear-wheel Q in turn meshes with a gear-wheel, R, on the end of the shaft E.

A lever, S, is pivoted to the side of the box C at S', and has the journal of the shaft H entered in its lower end. An opening around the shaft H in the box C permits the wheel Q to be thrown in and out of gear with the wheel P by turning the button f and operating the lever S.

The agitator stirs the material within the box C, and the feeder H h draws it from the hopper through the slots d and the space around the shaft H, and causes it to fall through the discharge J to the ground.

The hopper C' is used when it is desired to discharge the fertilizer into drills, and it is readily detachable; and when it is removed the fertilizer is then distributed broadcast, or to the extent of the full width of the slotted hopper-boards D D'.

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

In a fertilizer-distributer, the box C, having the adjustable slotted hopper-boards D D' and rollers O O, in combination with the agitator E F, provided with the gear-wheel R, and the feeder H h, one end of which is journaled in the box C and the other in the pivoted lever S, substantially as described.

In testimony that I claim the foregoing I have hereunto set my hand this 15th day of April, 1879.

THOMAS J. CARTER.

Witnesses:

BEN. M. SOWELL,  
JOHN J. TRUENTINE,