2 Sheets—Sheet 1.

# J. W. WHEATLEY.

## Fertilizer Distributer.

No. 202,081. Patented April 2, 1878.

Fig. 1.

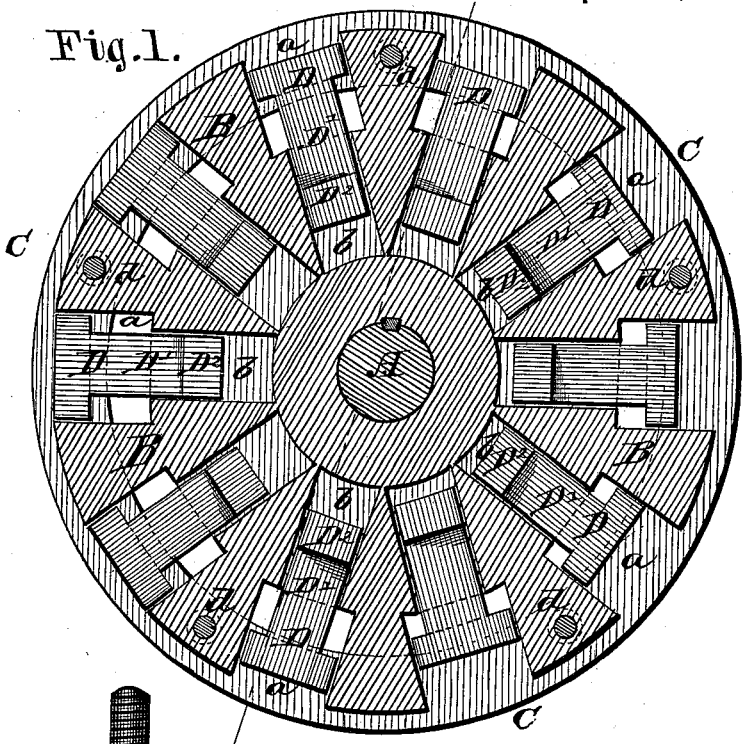
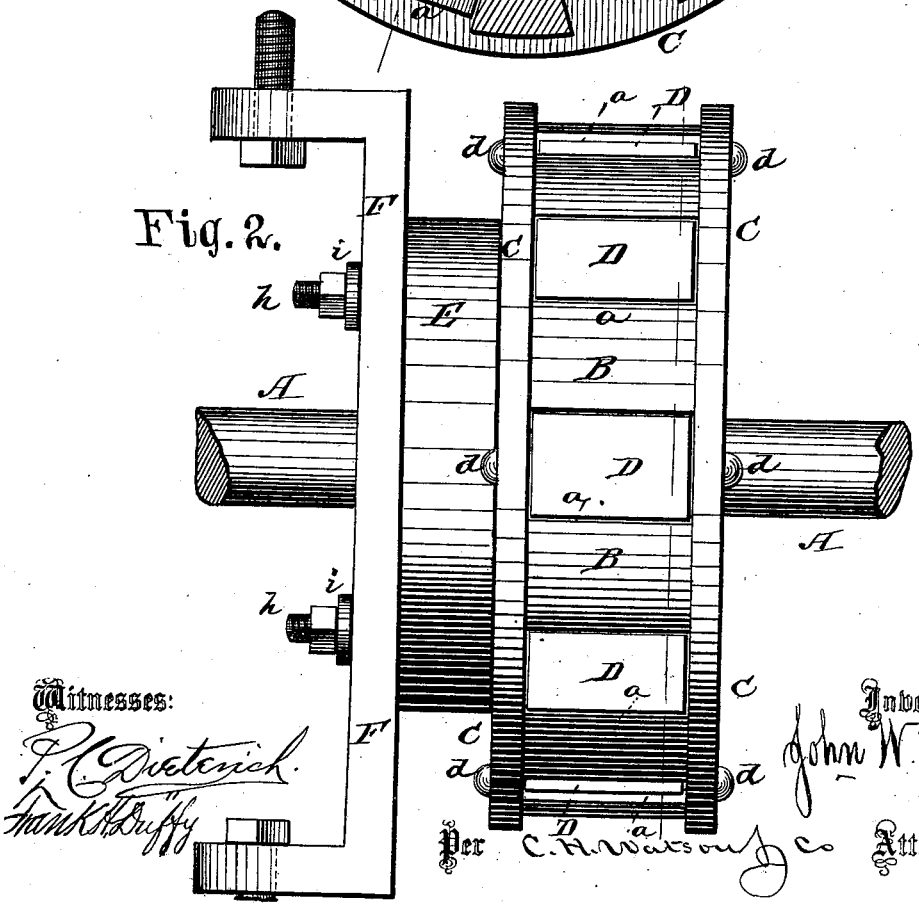


Fig. 2.



Witnesses:

P. C. Dieterich.

Frank H. Duffy

Inventor:

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2 Sheets—Sheet 2.

# J. W. WHEATLEY.

## Fertilizer Distributer.

No. 202,081. Patented April 2, 1878.

Fig. 3.

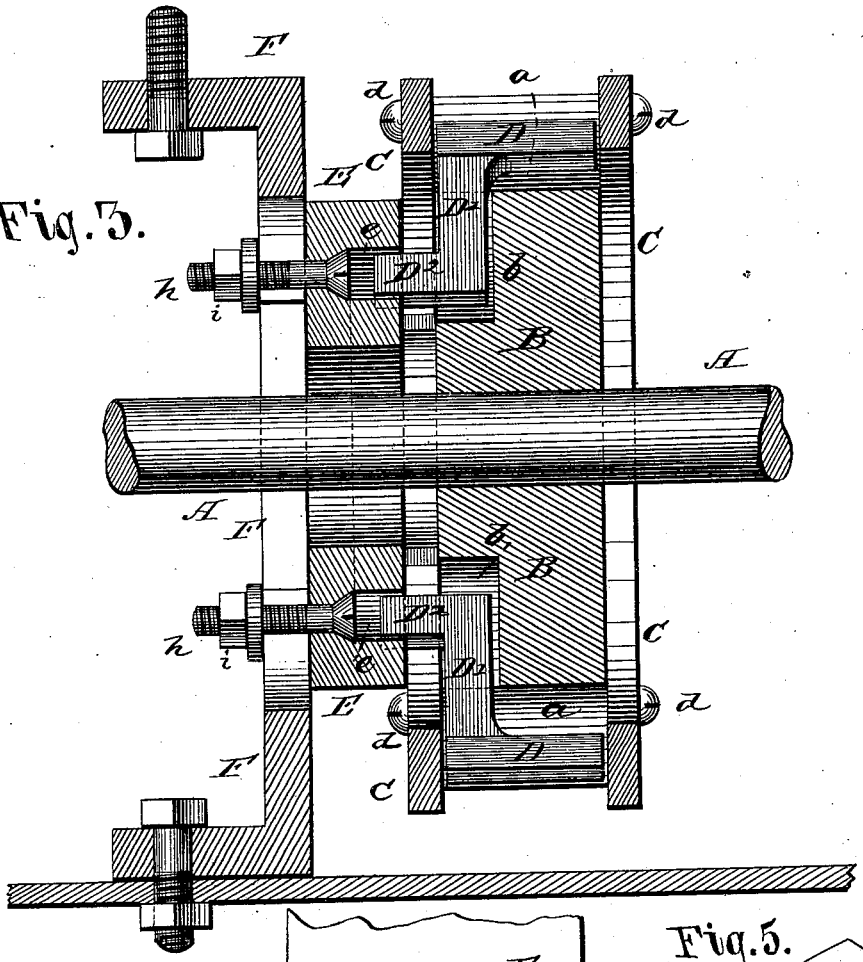



Fig. 4.

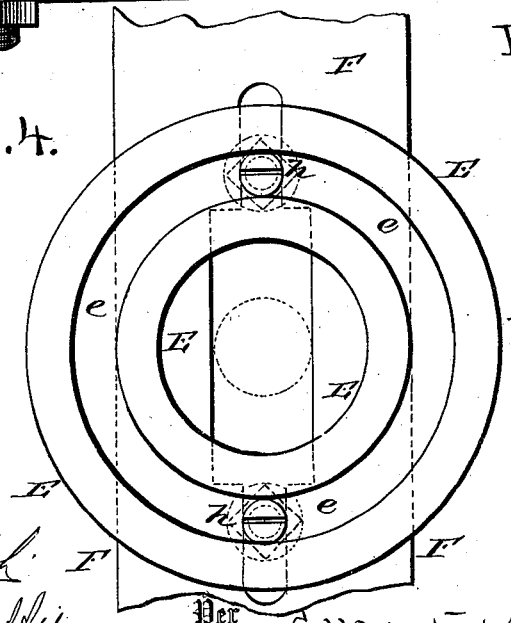
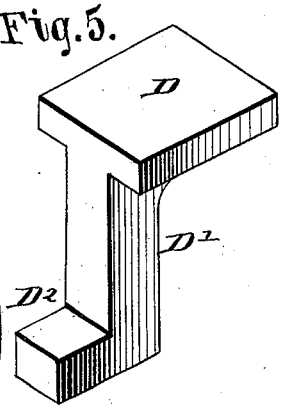



Fig. 5.

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# UNITED STATES PATENT OFFICE.

JOHN W. WHEATLEY, OF RAPPAHANNOCK STATION, VIRGINIA, ASSIGNOR TO HIMSELF AND SANFORD D. EMBREY, OF SAME PLACE.

## IMPROVEMENT IN FERTILIZER-DISTRIBUTERS.

Specification forming part of Letters Patent No. **202,081**, dated April 2, 1878; application filed February 28, 1878.

*To all whom it may concern:*

Be it known that I, JOHN W. WHEATLEY, of Rappahannock Station, in the county of Fauquier and State of Virginia, have invented certain new and useful Improvements in Fertilizer-Distributers; and I do hereby declare that the following is a full, clear, and exact description thereof, which 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 the letters of reference marked thereon, which form a part of this specification.

The nature of my invention consists in the construction and arrangement of a fertilizer-distributer, as will be hereinafter more fully set forth.

In the annexed drawings, to which reference is made, and which fully illustrates my invention, Figure 1 is a central section of the distributing-wheel. Fig. 2 is a side view of the distributer. Fig. 3 is a transverse vertical section of the same. Figs. 4 and 5 are detailed views of parts thereof.

In these drawings I have not deemed it necessary to show any hopper or frame-work, as such may be constructed in any suitable manner. Neither have I deemed it necessary to show any chute or conductor for carrying the fertilizer down, as the same may be arranged, when used, in any of the known and usual ways.

A represents a horizontal shaft, upon which the distributing-wheel B is keyed or otherwise firmly secured. This wheel is made of a single casting, having a series of pockets or openings, *a a*, made through the same from side to side, at equal distances apart, around the entire circumference, and extending inward for a suitable distance. An annular ring or plate, C, is then placed on each side of the wheel, around the edge, and the two rings bolted by means of bolts *d d*, the said rings or plates C C forming the side walls of the pockets *a a*. The other two walls of each pocket run parallel, as shown in Fig. 1. From the bottom of each pocket *a*, on one side of the wheel, is formed a groove, *b*, extending radially inward for a suitable distance.

In each pocket *a* is placed a plunger, D, of such size as to fit therein, and move freely outward and inward in the same. This plunger D is provided with an arm, $D^1$, which lies in the groove *b*, and the inner end of said arm is formed with an outwardly-projecting foot, $D^2$. The construction of this plunger, with its arm and foot, is fully and clearly shown in Fig. 5.

The feet $D^2$ of all the plungers enter a circular groove, *e*, made in an annular plate or casting, E. In the bottom of this groove, on opposite sides, are countersunk holes for the passage of two bolts, *h h*, as shown in Fig. 3. These bolts pass through an elongated slot in an arm, F, which is rigidly secured to the frame-work of the machine by any suitable or convenient means. Nuts *i i* are then screwed on the ends of the bolts *h h*, whereby the casting E is held firmly to said arm.

By means of the elongated slot in the arm F the casting E may be adjusted up or down, as required, to make the groove *e* therein more or less eccentric with the shaft A and wheel B.

The casting E should, however, be so adjusted that each plunger, in succession, as it reaches the bottom of the wheel, will have been moved flush with the circumference of the wheel, and when it is at the top of the wheel it shall have been drawn inward to, or nearly to, the bottom of the pocket.

It will readily be seen that as the wheel B revolves the plungers D D are moved by their feet $D^2$ working in the groove *e* on their casting E, in such a manner that each pocket, while at the top, can receive the fertilizer, which is then pushed out by the plunger as it gets to the bottom, the plunger being gradually drawn in again before reaching the top.

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

1. The combination of the wheel B, formed with the pockets *a* and grooves *b*, the plungers D, each having an arm, $D^1$, and foot $D^2$, and the adjustable casting E, with circular groove *e*, all substantially as and for the purposes herein set forth.

2. In a fertilizer-distributer, the combination, with a wheel provided with a series of pockets, and movable plungers therein, of a circularly-grooved plate, adjustable more or less eccentric to the wheel, for regulating the depth of the pockets for receiving the fertilizer, substantially as herein set forth.

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

JOHN W. WHEATLEY.

Witnesses:

FRANK GALT,

C. H. WATSON.