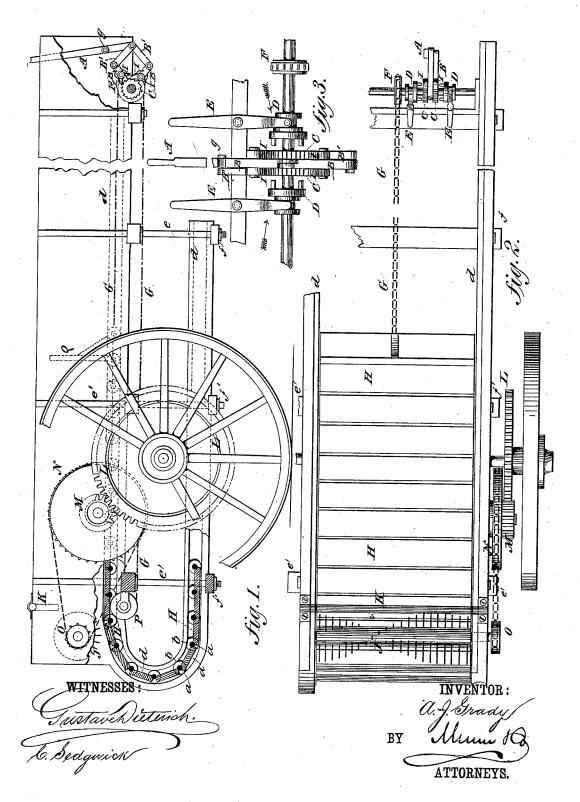
A. J. GRADY.

MANURE DISTRIBUTER.

No. 264,279.

Patented Sept. 12, 1882.



United States Patent

ANDREW J. GRADY, OF PECATONICA, ILLINOIS.

MANURE-DISTRIBUTER.

SPECIFICATION forming part of Letters Patent No. 264,279, dated September 12, 1882. Application filed April 17, 1882. (No model.)

To all whom it may concern:

Pecatonica, in the county of Winnebago and State of Illinois, have invented a new and Im-5 proved Manure-Distributer, of which the following is a full, clear, and exact description.

My invention relates to manure-distributers; and it consists in the peculiar construction and arrangement of parts, as hereinafter more 10 fully set forth.

Reference is to be had to the accompanying drawings, forming part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 is a side elevation, partly in section, of my improved manure-distributer. Fig. 2 is a plan view with a part broken out. Fig. 3 is a detail of the hand-gear for operating the

bottom of the wagon. H represents the sectional bottom of the wagon, the sections being joined together at a and provided with rollers b, which are arranged in the ways d along the sides of the wagon-body, as shown by dotted lines at the 25 right hand and full lines at the left hand of Fig. 1, said ways extending downward at the rear and forward under the truck to the suspending-rods e and bar f, for a space to receive the bottom H when being moved out of

30 its normal place, for delivering the load to the toothed rotary distributer J for being discharged upon the ground, the said bottom being shifted along past the said distributer by the endless chain G, worked by hand-lever A, 35 and the distributer being operated by the

chain belt O, drum N, pinion M, and the toothed driver L on one of the wagon-wheels. The endless chain G runs over the driving-pulley F and the guide-pulley P, and is suitably at-

40 tached to the bottom H for working it forward and backward. The driver F is worked by the ratchet C, pawls I, jointed pawl-levers B, and the said hand-lever A, the latter being fixed

on a pivot at g and connected with levers B by links B'. The shaft of the driving-pulley F is provided with two of the ratchets C, and each ratchet has pawls I and pawl-levers B, one being set to work the chain G to the left hand for discharging the load and the other 50 for working said chain to the right hand for

returning bottom H after the load has been Be it known that I, Andrew J. Grady, of discharged. The ratchet wheels are fitted loosely on the shaft, and have each a clutch, D, and clutch-lever E, for connecting one or the other, according as the bottom H is to be 55 moved forward or backward.

K represents a feed-board hung on pivots above and a little in advance of the distributer, to prevent lumps from being thrown over before being pulverized by causing them to fall 60 back for repeated action by the points of the distributer.

Q represents the end-board of the bottom H, for confining the end of the load at the

Besides the suspending-rods e and beam fmentioned for supporting the front end of the lower ways, b, said ways are similarly supported at intervals along rearward by other rods, e'and bearings f'. The quantity distributed 70 can be regulated by the rapidity of the working of the hand lever A, which is subject to the will of the operator, and may be varied at different times and places as circumstances may require.

In practice the wagon will have a pair of heals at the fract. wheels at the front end of the box, as other wagons have, said wheels being omitted in the drawings for simplicity.

Having thus fully described my invention, 80 what I claim as new, and desire to secure by Letters Patent, is—

1. In a manure-distributer, the combination, with an open-bottom wagon-body provided with ways d in its sides, extending downward at the 85 rear and forward under the body nearly to its forward end, of the movable sectional bottom. H, provided with end-board Q and means, substantially as described, for operating said bottom, as specified.

2. In a manure-distributer, the combination, with an open-bottom wagon-body provided with the ways d in its sides, exténding downward at the rear and forward under the body, the movable sectional bottom H, provided with 95 end-board Q, and means for operating the same, of the distributer J, the chain O, drum N, pinion M, and the driver L, substantially as and for the purpose set forth.

3. In a manure-distributer, the combination, 100

with the movable bottom H and endless belt G, of the pulley F, the ratchet-wheels C, the clutches D, the lever A, levers B, the links B', and pawls I, substantially as and for the purspose set forth.

4. The sectional bottom H, jointed together at a, and provided with rollers b, in combination of the purspose set and provided with rollers b, in combination of the purspose set forth.

5. D. Rogers, F. S. Brainard.