

S. K. DENNIS.
MANURE SPREADER.

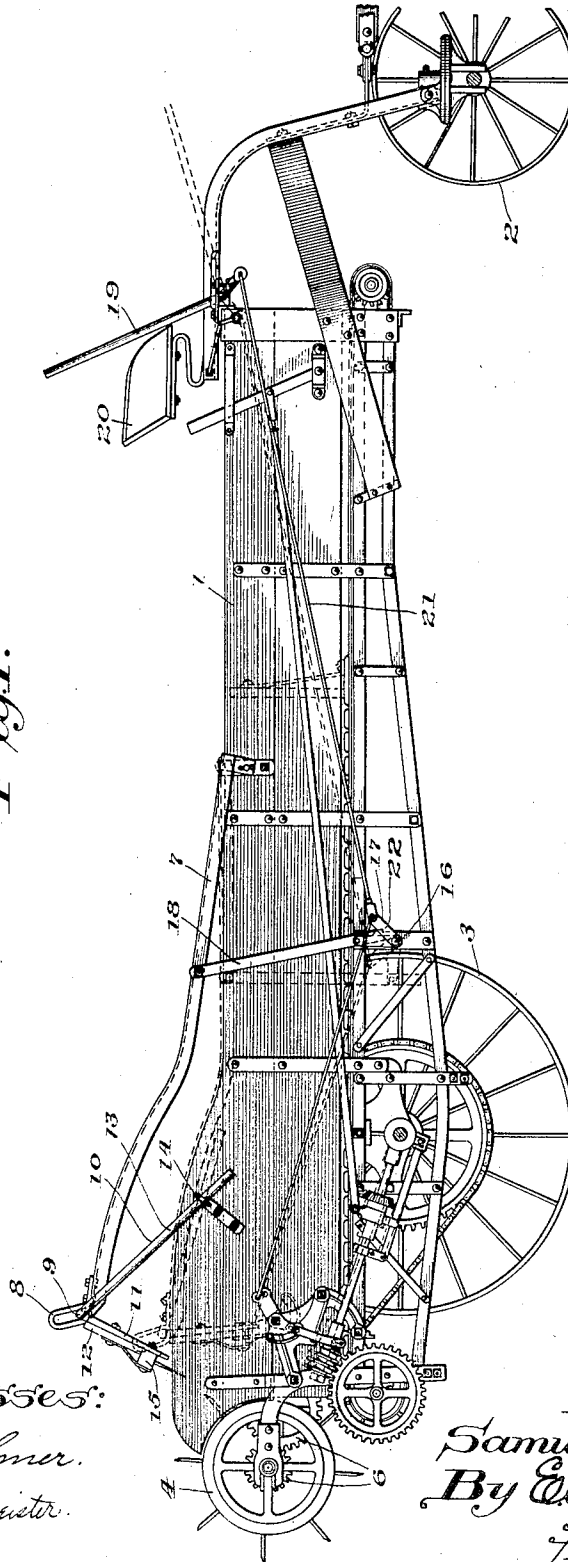
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2 SHEETS—SHEET 1.

Fig. 1.



Witnesses:
C. C. Palmer.
E. W. Hoffmeister.

Inventor.
Samuel K. Dennis,
By *E. W. Burges*
Attorney.

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2 SHEETS—SHEET 2.



Fig. 4.

Fig. 3.

Fig. 2.

Witnesses:
C. C. Palmer.
F. W. Hoffmaster.

Inventor.
Samuel K. Dennis;
By *Ell. Kurgus*
Attorney.

UNITED STATES PATENT OFFICE.

SAMUEL K. DENNIS, OF CHICAGO, ILLINOIS, ASSIGNOR TO INTERNATIONAL HARVESTER COMPANY, A CORPORATION OF NEW JERSEY.

MANURE-SPREADER.

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To all whom it may concern:

Be it known that I, SAMUEL K. DENNIS, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Manure-Spreaders, of which the following is a specification.

My invention relates to manure spreaders, and in particular to the means for controlling the position of the end-gate, its object being to provide a construction flexible in the movements thereof, simple and strong, and efficient in operation. This object is attained by means of the mechanism illustrated by the accompanying drawings, in which—

Figure 1 represents a side elevation of a manure spreader with the wheels upon one side removed and having my invention embodied in its construction; Fig. 2 is a top plan view of Fig. 1; Fig. 3 is a front elevation of part of the end-gate and designed to illustrate the manner of mounting it upon the receptacle; Fig. 4 is a side elevation of Fig. 3; and Fig. 5 is a top view of Fig. 4.

The same reference characters designate like parts throughout the several views.

1 represents the body of the machine, carried upon front truck wheels 2 and rear traction wheels 3.

4 represents the distributing cylinder journaled in bearings carried by the rear end of the body and deriving motion from the traction wheels by means including a sprocket chain 5 and gear wheels 6.

7 represents end-gate carrying arms having the front ends thereof pivotally connected with the side walls of the body of the machine, upon opposite sides thereof, and extending rearward are provided at their rear ends with upwardly turned loop members 8 that receive loop portions 9 of end-gate supporting members 10 that are provided with depending arms 11 that are secured to opposite ends of an end-gate 12, and forwardly and downwardly extending arms 13 that are slidably received by eye members 14 secured to the side walls of the body, the gate being provided with a common form of comb 15 along its lower edge.

16 represents a transversely arranged rock shaft journaled in bearings carried by the bed frame of the machine and having arms 17 secured to opposite ends thereof, the arms being connected by means of links 18 with

the end-gate carrying arms 7 in rear of the pivotal axis thereof, whereby, when the shaft is rocked in opposite directions, the end-gate is raised or lowered, a rocking movement of the shaft being controlled by the operator by means of the hand lever 19 adjacent the seat 20 at the front of the machine, the hand lever being operatively connected with the shaft by means of a rod 21 having the rear end thereof connected to an arm 22 secured to the rock shaft, and the rock shaft may be connected in any preferred manner with the gear and clutch shipping mechanism. When the end-gate is in a lowered position it is disposed substantially vertical, and when in a raised position is caused to turn to a position about the axis thereof as controlled by the arms 13 inclining rearward and downward, and is free to rise and fall to a limited extent in the loop members 8 under the pressure of material being delivered to the distributing cylinder.

What I claim as my invention, and desire to secure by Letters Patent, is:

1. A manure spreader having, in combination, a body, a distributing cylinder journaled in bearings carried by the rear end of said body, an end-gate adapted to close the end of said body adjacent said cylinder, means for raising and lowering said end-gate, said means including arms having the front ends thereof pivotally connected with the side walls of said body and having upwardly extending loops at the rear ends thereof, end-gate supporting members received by said loops, having depending arms secured to opposite ends of said end-gate, and forwardly extending arms having the front ends thereof slidably connected with the side walls of said body.

2. A manure spreader having, in combination, a body, a distributing cylinder journaled in bearings carried by the rear end of said body, an end-gate adapted to close the end of said body adjacent said cylinder, means for raising and lowering said end-gate, said means including arms having the front ends thereof pivotally connected with the side walls of said body, end-gate supporting members carried by the rear ends of said arms, having depending arms secured to opposite ends of said end-gate, and forwardly and downwardly extending arms slidably connected with the side walls of

said body in a manner to swing the lower side of said end-gate toward or from said cylinder during a raising or lowering movement thereof.

5 3. A manure spreader having, in combination, a body, a distributing cylinder journaled in bearings carried by the rear end of said body, an end-gate having a rising and falling movement in front of said cylinder, 10 means for raising and lowering said end-gate, said means including arms having the front ends thereof pivotally connected with the side walls of said body upon opposite sides thereof, end-gate supporting members carried by the rear ends of said arms comprising double levers arranged at approximate right angles with each other, having one of said levers slidably connected with the body of the machine in front of said end-gate, and the remaining lever with said end-gate at opposite ends thereof, said end gate being permitted a rising and falling movement independent of the raising and lowering means. 15 20

SAMUEL K. DENNIS.

Witnesses:
M. VAN DER VLIET,
L. G. CORNELIUS.
