

A. J. RUSH.

DEVICE FOR DEPOSITING FEED IN TROUGHS.

No. 193,185.

Patented July 17, 1877.

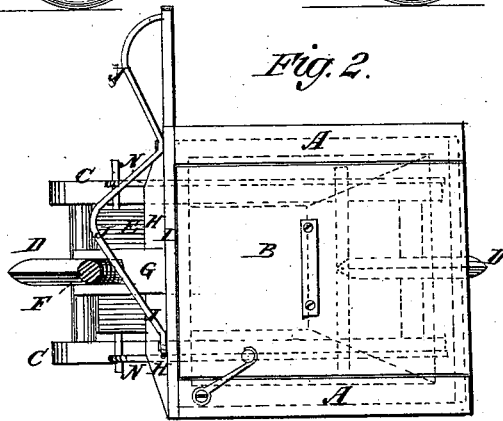
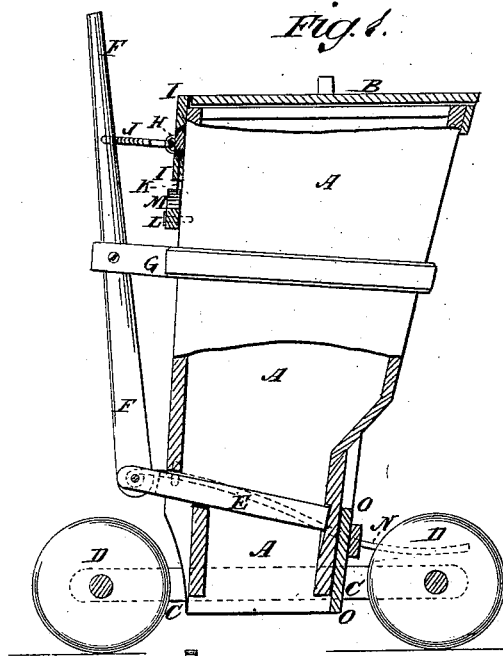
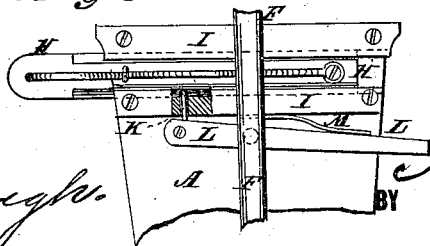


Fig. 3



WITNESSES:

Francis. M. ...
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INVENTOR:

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BY *[Signature]*

ATTORNEYS

UNITED STATES PATENT OFFICE.

ANDREW J. RUSH, OF (SIMPSON'S STORE P. O.) NINEVEH, PENNSYLVANIA.

IMPROVEMENT IN DEVICES FOR DEPOSITING FEED IN TROUGHS.

Specification forming part of Letters Patent No. **193,185**, dated July 17, 1877; application filed June 18, 1877.

To all whom it may concern:

Be it known that I, ANDREW J. RUSH, of Simpson's Store P. O., Nineveh, county of Green, and State of Pennsylvania, have invented a new and useful Improvement in Sheep-Feeder, of which the following is a specification:

Figure 1 is a side view of my improved sheep-feeder, parts being broken away to show the construction. Fig. 2 is a top view of the same. Fig. 3 is a front view of the upper part of the same.

Similar letters of reference indicate corresponding parts.

The object of this invention is to furnish an improved device for feeding grain to sheep in troughs, which shall be so constructed as to spread the grain evenly through the trough, and prevent the spilling and waste of the grain from the crowding around of the sheep, and which shall be simple in construction and convenient in use.

The invention consists in the combination of the bars and wheels, the sliding bottom, and the lever with the feed-box; in the combination of the regulator and its lock with the feed-box, the lever, and the sliding bottom; and in the combination of the curved rods; and the sliding stroke-board with the sliding bottom, the lever, and the feed-box, as hereinafter fully described.

A represents a hopper-shaped box, which is provided with a cover, B, secured in place by a hook or other convenient fastening. To the opposite sides of the lower end of the box A are attached two bars, C, the ends of which project in front and rear, and to and between said ends are pivoted two wheels, D. The rims of the wheels D are made V-shaped, to fit into the ordinary V-shaped troughs in which sheep are fed.

The bottom of the feeder is formed of a slightly-inclined slide, E, which passes in through a slot in the lower part of the front of the box A, and to its outer end is pivoted the lower end of a lever, F, which projects upward along the front of the said box A, and is pivoted to a slotted arm or bar, G, attached to the middle part of the front of the box A. H is a dovetailed bar, sliding between two cleats, I, attached to the upper part of the

front of the box A. To the sliding bar H is attached a wire, J, which is bent to form an incline, which passes between the upper part of the lever F and box A, so that by adjusting the slide H the movement of the upper end of the lever F toward the said box A may be limited to regulate the opening of the sliding bottom E, and thus regulate the rapidity with which the grain flows out.

The slide or regulator H is secured in place, when adjusted, by a pin, K, which passes up through the lower cleat I and enters one or another of the holes in the sliding bar H.

The pin K is attached to the end of a lever, L, pivoted to the front of the box A, and held in position to hold the lock-pin K in place by a spring, M, attached to the lower cleat I, and pressing against the upper side of the free end of the lever L.

To the outer corners of the sliding bottom E are pivoted the ends of two rods, N, which pass through guides attached to the forward parts of the sides of the box A, and through the projecting ends of a bar attached to the board O, that slides up and down upon the rear side of the lower part of the box A. The rods N are so curved that, when the sliding bottom E is drawn outward to allow the grain to flow out, the sliding board O will be lowered to stroke off or level the grain in the trough, so that it may be of a uniform depth, giving all the sheep an equal chance at the feed.

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

1. The combination of the bars and wheels C D, the sliding bottom E, and the lever F, with the box A, substantially as herein shown and described.

2. The combination of the regulator H J and its lock K L M, with the box A, the lever F, and the sliding bottom E, substantially as herein shown and described.

3. The combination of the curved rods N and the sliding stroke-board O with the sliding bottom E, the lever F, and the box A, substantially as herein shown and described.

ANDREW JACKSON RUSH.

Witnesses:

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E. C. FULTON.