(No Model.)

A. R. YOST.

COMBINED SHEEP RACK AND TROUGH.

No. 256,789. Patented Apr. 18, 1882.

Fig. 1.

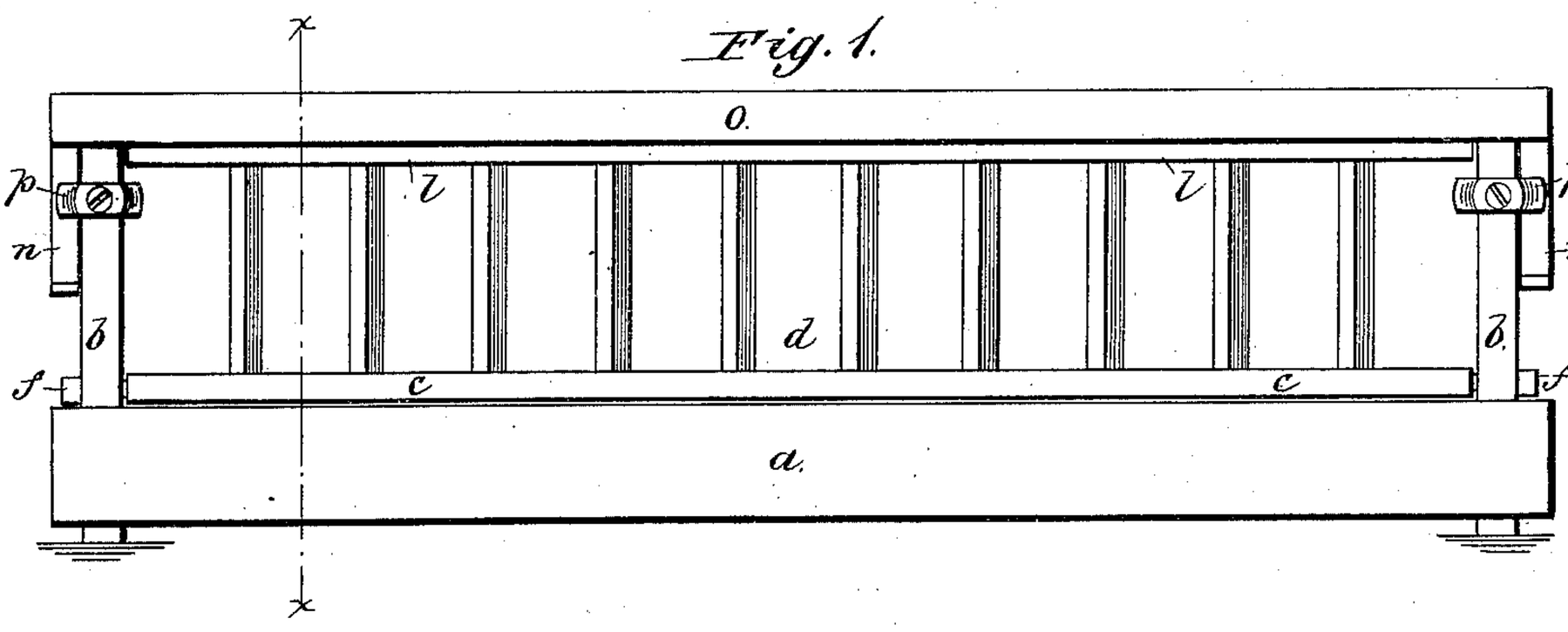


Fig. 2.

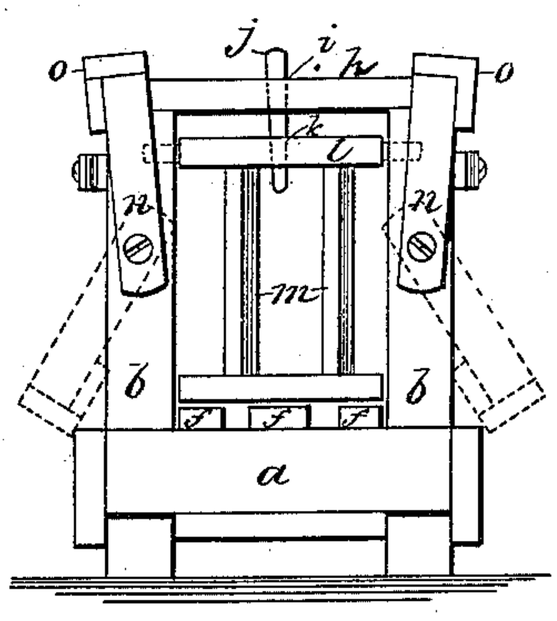
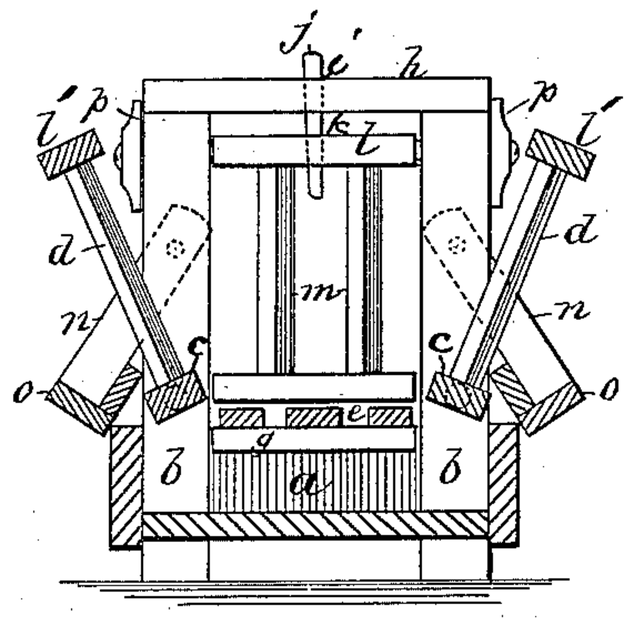


Fig. 3.



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COMBINED SHEEP RACK AND TROUGH.

SPECIFICATION forming part of Letters Patent No. 256,789, dated April 18, 1882.

Application filed September 15, 1881. (No model.)

To all whom it may concern:

Be it known that I, AMER R. YOST, of Somerset, in the county of Perry and State of Ohio, have invented a new and useful Improvement in Combined Sheep Rack and Trough; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a side elevation of my improved sheep rack and trough. Fig. 2 is an end elevation of the same. Fig. 3 is a vertical transverse section on line *x x*, Fig. 1, with the troughs down and the racks swung out.

My invention relates to improvements in combined sheep rack and trough; and it consists in the peculiar construction and arrangement of the parts, as hereinafter more fully set forth.

In the accompanying drawings, *a* represents the base of my improved rack, of box form, open at top, and provided with the four corner posts, *b b*. To the opposite corner posts, *b b*, on each of the longitudinal sides of the box or base, are pivoted the lower bars, *c*, of two opposite racks, *d*, of ordinary construction, and adapted to swing toward or from each other, as desired. The lower longitudinal bars, *c*, of the racks *d* are pivoted to the opposite posts, *b*, just above the upper edges of the longitudinal sides of the box *a*. *e* represents an open rack-bottom composed of a series of longitudinal slats, *f*, secured to cross-pieces *g*, with interstices between them, and fitting over the mouth of the box *a*, with the ends of the slats *f* resting on the end pieces of the box *a*, thus forming a removable rack-bottom, *e*, with openings for the passage of hay-seed and dirt into the box *a*, the rack-bottom *e* being made removable in order to clean out the box.

h h represent cap-pieces secured to the upper ends of each pair of end posts, *b b*, each cap-piece *h* being provided with a central hole, *i*, for the passage of a pin, *j*, which passes thence into a hole, *k*, in the upper bar, *l*, of an end rack, *m*, the upper bar, *l*, of which is pivoted in the side faces of the posts *b* at each end of the rack. By this construction the end swinging racks, *m*, are prevented from swinging, when desired, by their pins, and when necessary the pins *j* may be removed and the end racks swung up and the open rack-bottom *e* removed, when the box or receptacle *a* can readily be cleaned.

n n represent arms pivoted to the outer faces of the posts *b* on opposite sides of the frame. The outer ends of each pair of arms *n* are connected by an angular trough, *o*, which troughs are adapted to be turned down, when desired, into a horizontal position to form troughs for feeding grain to stock, and also adapted to to be swung up and engage with the upper bars, *l'*, of the racks and support the racks in a vertical position, buttons *p* being pivoted to the outer faces of the posts and adapted to engage and hold the arms *n* in an upright position. By this construction, also, the arms *n*, connected at their outer ends by the troughs, serve, when the buttons are disengaged, to support the racks when swung outward, and form a wedge-shaped space between the racks for the ready admission of hay, which may be compressed between the racks by swinging them toward each other and engaging the buttons with the arms *n*, each angular trough fitting over two sides of the upper bar of each of the swinging racks, and each trough performing the function of a trough for feeding stock and also serving as a support for its rack, and acting as a guard to keep sheep from climbing into the rack when partially empty.

It will also be observed that when a trough is raised up it empties all refuse matter—cobs, water, &c.—outside instead of inside of the rack.

I claim as my invention—

1. The combination, with the swinging racks *d*, of the swinging troughs *o*, pivoted to the outer faces of the corner posts and adapted to perform the double functions of troughs and supports for the rack, substantially as described.

2. The combination of the swinging racks *d*, pivoted to the inner faces of the opposite corner posts just above the box *a*, having their lower bars, *c*, pivoted in the posts *b*, angular troughs *o*, pivoted to the posts by arms *n*, and adapted to serve as troughs and engage with the upper bars of the racks, and buttons *p*, substantially as described, and for the purpose set forth.

3. The combination, with the box *a*, removable open rack-bottom *e*, and racks *d*, of the swinging end racks, *m*, and pins *j*, substantially as described, and for the purpose set forth.

4. The combined rack and trough herein described, consisting of the box *a*, provided with the posts *b* and removable open rack-bottom *e*, swinging racks *d m*, troughs *o*, pivoted to the posts by the arms *n*, buttons *p*, and pins *j*, substantially as described, and for the purpose set forth.

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Witnesses:
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