(No Model.)

O. F. MARSHAL, Jr.

FEED RACK.

No. 501,522. Patented July 18, 1893.

Fig. 1.

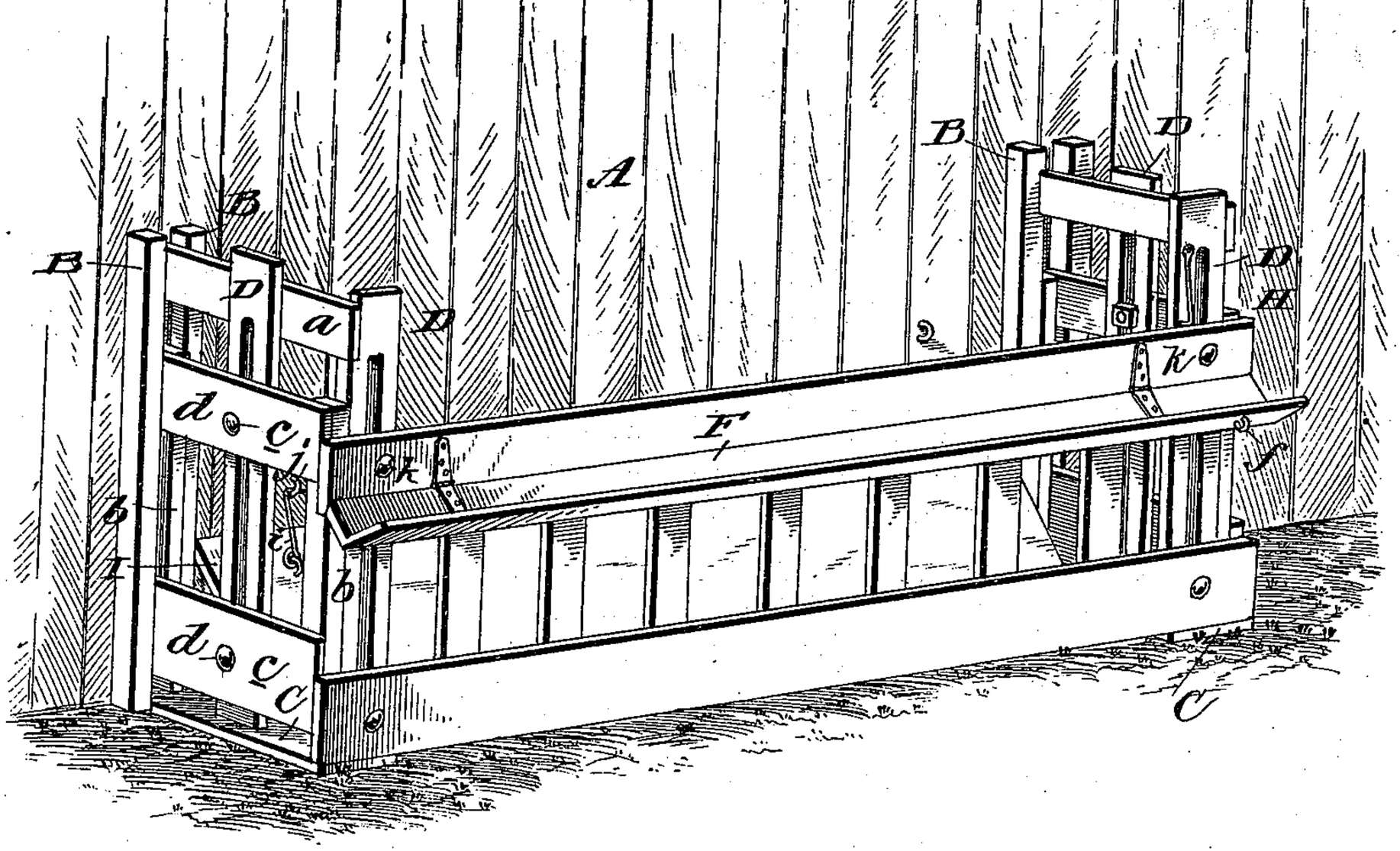
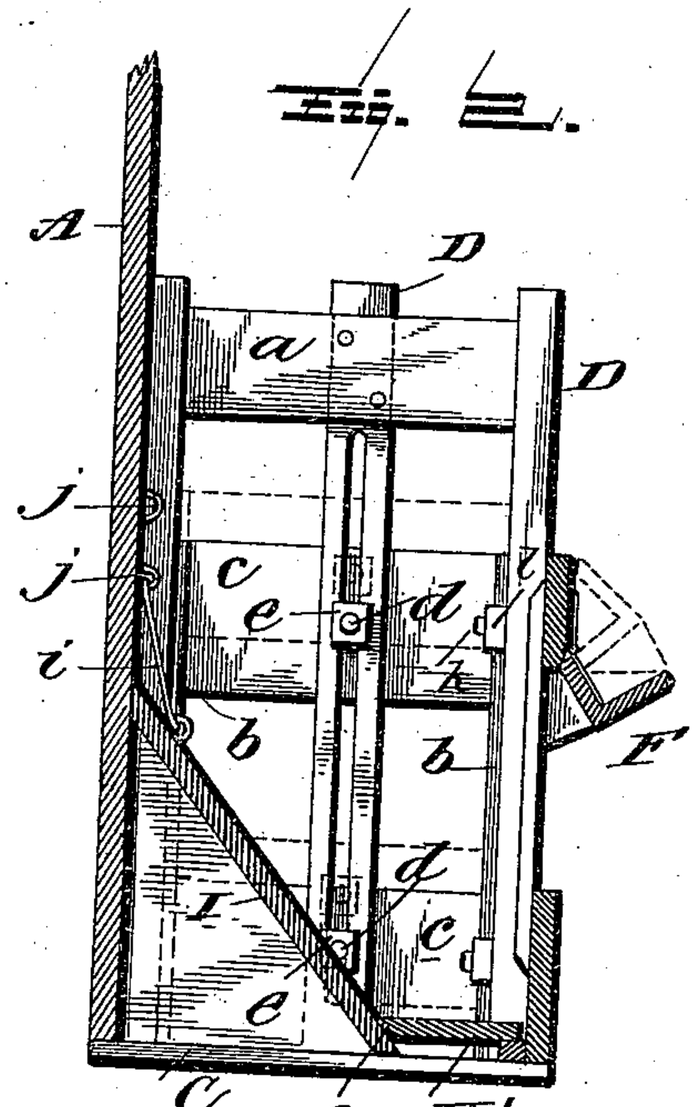


Fig. 2.



Witnesses.
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UNITED STATES PATENT OFFICE.

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FEED-RACK.

SPECIFICATION forming part of Letters Patent No. 501,522, dated July 18, 1893.

Application filed February 24, 1891. Renewed March 31, 1893. Serial No. 468,577. (No model.)

To all whom it may concern:

Be it known that I, OTTO F. MARSHAL, Jr., a citizen of the United States, residing at Bath, in the county of Steuben and State of New York, have invented certain new and useful Improvements in Sheep-Racks and Feed-Troughs; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters of reference marked thereon.

This invention relates to certain new and useful improvements in sheep racks and feed troughs, and it has for its objects among others to provide a rack which can be affixed in any desired location and easily raised to accommodate the sheep in feeding.

It has for a further object to provide a feed trough so arranged that it can be turned up out of the way after its use so that the animals can get at the hay in the rack.

I make the bottom of the rack adjustable.

The device as a whole is conveniently arranged, simple, cheap of manufacture and in practice has proved most efficient.

The novelty in the present instance resides in the peculiarities of construction, and the novel combinations, arrangement and adaptation of parts, all as more fully hereinafter described, shown in the drawings and then particularly pointed out in the appended claims.

The invention in its preferable form is clearly illustrated in the accompanying drawings, which, with the letters of reference marked thereon, form a part of this specification, and in which—

Figure 1 is a perspective view showing the device in position for use. Fig. 2 is a vertical cross section through the same.

Like letters of reference indicate like parts in both views.

Referring now to the details of the drawings by letter, A designates a suitable support as for instance the side of a barn, a fence or any other device to which it may be desired to secure the rack, and B are uprights secured to the said support at a distance apart as seen in Fig. 1 to form guides for the end pieces of the rack. The ends of the rack are formed in this manner.

C are bases or boards which have secured thereto the slotted uprights D which are connected at their upper ends by the cross piece *a*. The end piece or rather the movable part thereof, is constructed of the two pieces *b* connected by two or more cross pieces *c* as seen in Fig. 1, the end pieces *b* moving in the vertical guides provided therefor and the cross pieces each carrying a horizontal bolt *d* one end of which is securely held therein and the other end passed through the slot in the upright D at the end and upon its inner end provided with a nut *e*, as seen best in Fig. 2, the nuts being sufficiently tight to hold the movable part in its adjusted position and yet allow the same to be moved vertically under slight power or pressure. Each end may be thus constructed or one end may be hinged if preferred.

The front of the rack is slatted as shown and is adapted to be moved vertically in the same manner as the end pieces.

To the upper longitudinal piece of the front of the rack is hinged the substantially V-shaped trough F the hinges being so arranged that when not in use the trough may be turned up out of the way as indicated by dotted lines in Fig. 2, being there held in any suitable manner either by being so arranged that when thus up the center of gravity will be such as to hold the trough up, or hooks H may be provided which engage hooks or staples *f* on the stationary part of the rack as seen in Fig. 1.

The trough F is vertically adjustable by means of the bolts *k* connected thereto, said bolts extending through the slots in the uprights D and the trough held in its adjusted position by means of the nuts *l* engaging the screw threaded ends of the bolts. This trough may be used independent of the rack or used with any other form of rack, or if desired the trough may be connected to any suitable object such as to the side of a shed upon the interior or exterior, or to a fence or other structure found most convenient.

The bottom of the feed rack is formed of two pieces H′ and I, the former designed to rest upon a cleat or support secured to and movable with the lower longitudinal timber of the front of the rack, upon the inner lower face thereof, as shown in Fig. 2, the inner edge of this piece H′ being beveled as shown at *g*, the

bevel being such as to correspond with the inclined outer face of the piece I as shown in Fig. 2. The piece I is arranged at an incline from the back toward the front, being beveled at its upper and lower edges as seen in Fig. 2 to form a tight joint with the support A and the bottom of the rack or the bases. This piece I is detachably held in position by the hooks and staples *i* and *j* two or more sets of staples being provided as seen in Fig. 2 so that the said piece may be adjusted vertically when desired to raise the rack.

The front piece of the rack with its attached trough may be raised and lowered independently of the end pieces or of the bottom of the rack.

What I claim as new is—

1. A combined sheep rack and feed trough, consisting of the vertically adjustable front and end pieces, guides therefor, and the hinged trough carried by the front piece, substantially as specified.

2. The combination with the base pieces and the slotted uprights secured thereto, of the end pieces having cross bars, the bolts in the cross bars with their inner ends working through the slots of the uprights, and the nuts on the inner ends of the bolts, substantially as specified.

3. The combination with the support and the guide bars attached thereto, of the base pieces, the slotted uprights secured thereto, the independently-adjustable front and end pieces provided with bolts working in the slots of the uprights and having nuts on their inner ends, and the hinged trough on the front piece, substantially as specified.

4. The combination with the base pieces and the slotted uprights secured thereto at right angles to each other, of the independently-adjustable end and front pieces having bolts with their inner ends working in the slots of the uprights, and the nuts on the inner ends of the bolts, all substantially as shown and described.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

OTTO F. MARSHAL, JR.

Witnesses:

LUCIUS A. WALDO,

F. J. MARSHAL.