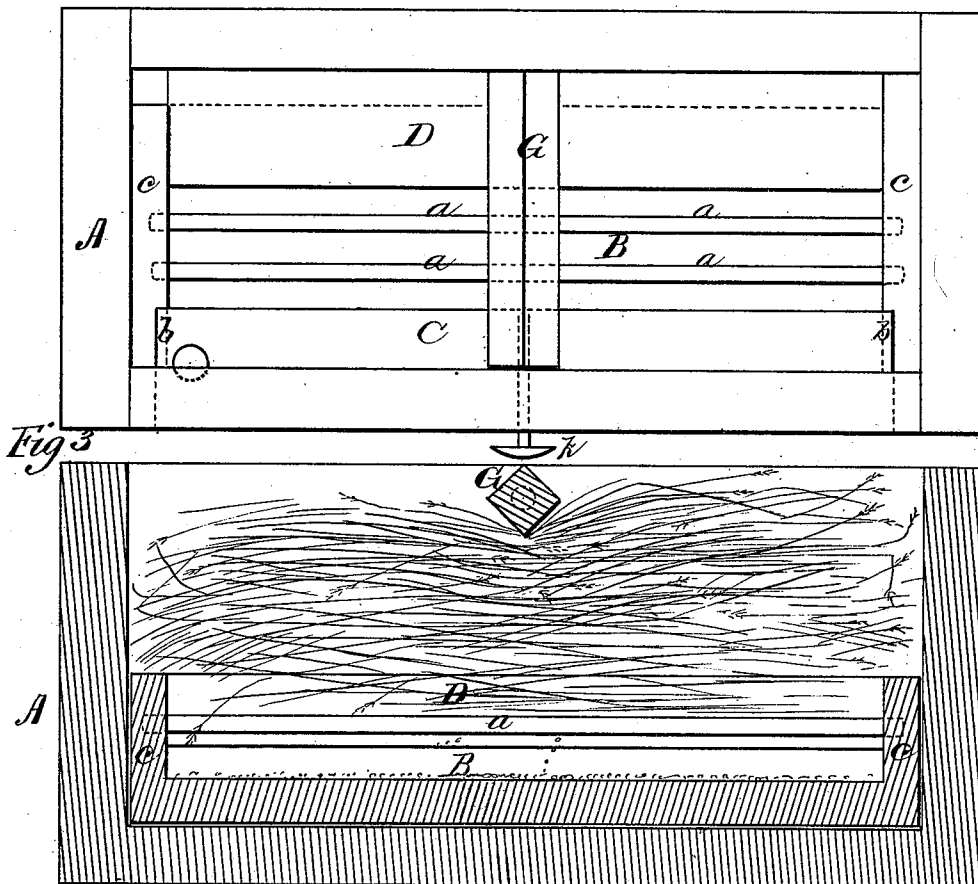
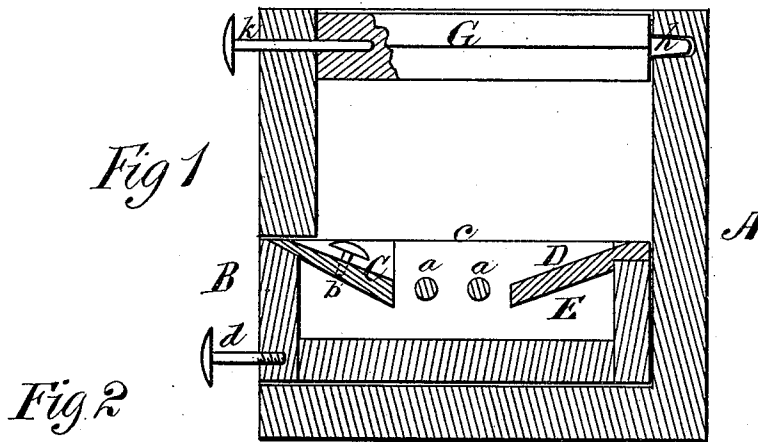


A. W. HUMPHREY.
FEED-RACK.

No. 179,314.

Patented June 27, 1876.



WITNESSES
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ALEXANDER W. HUMPHREY, OF HIRAMSBURG, OHIO.

IMPROVEMENT IN FEED-RACKS.

Specification forming part of Letters Patent No. **179,314**, dated June 27, 1876; application filed April 29, 1876.

To all whom it may concern:

Be it known that I, ALEXANDER W. HUMPHREY, of Hirambsburg, in the county of Noble and State of Ohio, have invented a new and valuable Improvement in Hay-Racks; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of a transverse section of a manger, illustrating my invention. Fig. 2 is a top view of the same. Fig. 3 is a vertical longitudinal section of the same.

This invention has relation to feeding racks or mangers; and it consists, mainly, in the construction and novel arrangement of the seed-saving drawer, located in the bottom of the manger, and provided with two lateral feeding-boards, sloping toward a central grating, one of said boards resting on ledges in the end walls of the drawer, and adapted for ready removal, and the other being secured to said end walls, and forming a pocket into which the seed will fall when the drawer is taken out; and the invention further consists in the prismatic removable binding-roller, having its bearings near the top of the manger, in which it is arranged transversely, and adapted to bind in the hay, and keep it from getting trodden under foot and wasted, as hereinafter fully shown and described.

In the accompanying drawings, the letter A designates the wall or body of a manger to which my invention has been applied.

B indicates the seed-drawer, the top of which also forms the feed-base of the manger. This drawer is located in the bottom of the manger, and is designed to be drawn out when necessary through a side slot or opening in its wall.

The top of the drawer or feed-base consists of a central grating, whereof the bars *a* run longitudinally, and two lateral boards, C D, sloping toward the grating from each side. Of these feeding-boards, that which is in the rear of the drawer is designed to be secured to its walls, so that it forms a rigid part of the drawer, and provides a pocket or receptacle, E, into which the seed will fall when the

drawer is removed from its seat, and inclined with its rear wall downward for transportation or other purpose. The other board C is made removable, and is seated upon ledges *b*, which are cut with the proper inclination in the end walls *c* of the drawer. This board is provided with a handle, *d*, so that it can be readily removed when it is required to empty the drawer.

G indicates the binding-roller, which is located at the top of the manger, transversely over the hay. This roller is made prismatic in form, the angular edges serving to bite on the hay and keep the animals from drawing it out too readily. As the hay is drawn out from under it the roller turns, and, presenting another edge or corner to the hay, takes a fresh purchase thereon.

The roller is provided, usually, with one journal, *h*, which is seated in the rear wall of the manger, the place of the other journal being supplied by a removable pin, *k*. The roller, therefore, can be readily removed when it is necessary.

When the manger is long it may be advisable to have two or more of these rollers properly spaced.

I am well aware that it is not new to provide a feeding-rack with a seed-receptacle in the form of a drawer below a grating on which the feed is placed. Hence I do not claim such invention broadly.

What I claim as new, and desire to secure by Letters Patent, is—

1. A manger or feed-rack, having a seed-saving drawer, B, provided with ledges in its end walls, and a feeding-top consisting of central grate-bars *a*, and sloping feed-boards C D, whereof one is fixed and the other removable, resting on said ledges, substantially as specified.

2. The combination, with a feed-rack or manger, of the transverse prismatic roller G, seated in bearings near the top of its wall, and adapted to bind the hay with its angular edges, substantially as specified.

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

ALEXANDER W. HUMPHREY.

Witnesses:

PHILIP JACKSON,
BENJAMIN RENNARD.