(No Model.)

R. W. DYE.

COMBINED FEED RACK AND TROUGH.

No. 329,029. Patented Oct. 27, 1885.

Fig. 1.

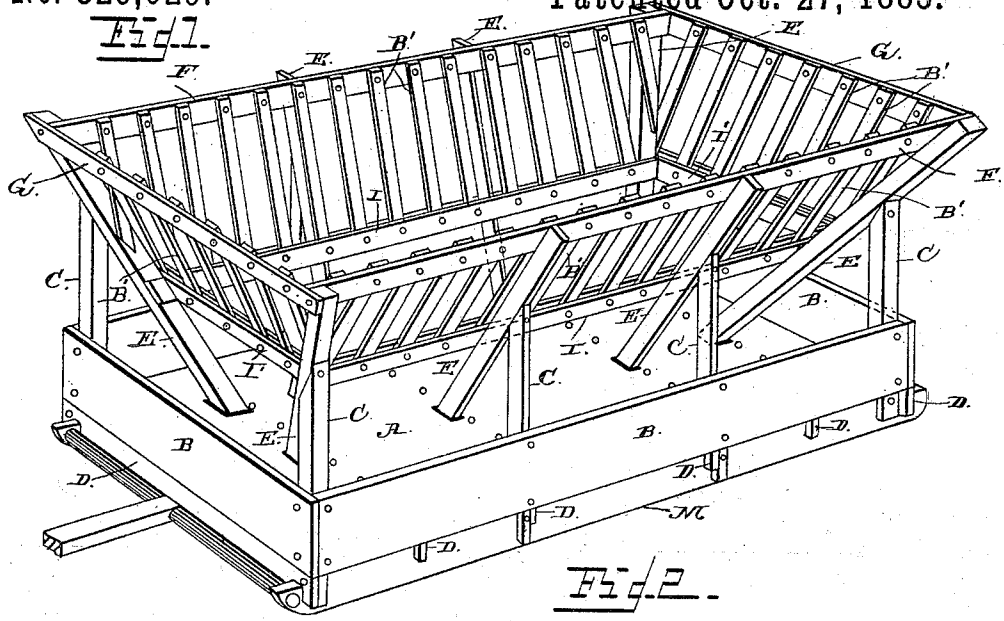


Fig. 2.

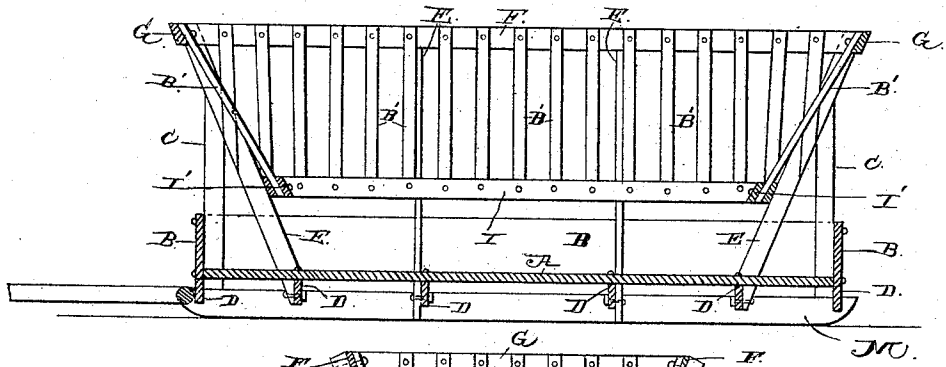


Fig. 3.

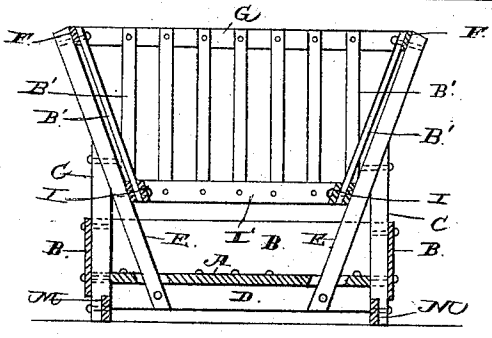
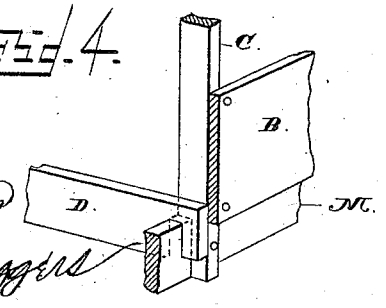


Fig. 4.



WITNESSES

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COMBINED FEED RACK AND TROUGH.

SPECIFICATION forming part of Letters Patent No. 329,029, dated October 27, 1885.

Application filed June 16, 1885. Serial No. 168,894. (No model.)

To all whom it may concern:

Be it known that I, ROBERT W. DYE, a citizen of the United States, residing at Oskaloosa, in the county of Mahaska and State of Iowa, have invented new and useful Improvements in Combined Feed Racks and Troughs, of which the following is a specification, reference being had to the accompanying drawings.

My invention relates to movable combined feed racks and troughs, and it has for its object to provide a device of this character which shall be cheap and simple in its construction and durable in its use.

With these ends in view the invention consists in the improved construction and combination of parts, as hereinafter set forth, and particularly pointed out in the claims.

In the drawings, Figure 1 is a perspective view of my improved feed rack and trough. Fig. 2 is a longitudinal sectional view of the same. Fig. 3 is a transverse vertical section. Fig. 4 is a detached sectional view showing a portion of the floor or platform, and especially the connection of the vertical supports, runners, and transverse strips.

In the accompanying drawings, in which like letters refer to corresponding parts in the several figures, A represents the base or floor of the trough, having side and end boards, B, projecting upwardly therefrom, and extending around the outer edges of the floor, so as to inclose the same and prevent wasting of the feed, and thus corn and the like may be fed to the stock without being scattered over the ground.

A series of braces or supports, C, are beveled or cut off obliquely at their upper inner sides, and extend downwardly through openings in the floor A, in which openings they are tightly wedged. The lower ends of these braces C are rabbeted or notched on one side to fit over and around the runners M, extending the entire length of the rack, said runners being secured in place by bolts, or equivalent fastenings, connecting them to the rabbeted ends of the braces, as shown in Fig. 3. To these runners may be attached a pole or tongue and thus provide convenient means for transporting the combined rack and trough from place to place.

D represents a series of transverse strips or braces, which have their ends notched or cut on the under side to fit over the upper face of the runners, said braces or strips being nailed or otherwise secured to the floor or platform, as shown.

E represents a series of inclined standards or uprights, which are secured near their upper ends to the beveled upper edges of the braces C, the lower ends of the uprights extending through openings in the floor or platform, and secured to the sides of the transverse strips D by bolts or other fastenings. As seen, the four corner-standards are larger in width than the intermediate standards.

To the upper ends of the standards E are secured side rails, F, and end rails, G, and corresponding strips or rails, I I′, are arranged around the sides and ends of the rack, and secured to the inclined standards at about the vertical center of the same.

Slats B′ are secured at their upper ends to the rails F G, and at their lower ends to the strips or rails I I′, and since the standards or uprights are inclined, a similar inclination will be given to the slats, which, being arranged parallel to each other, form, so to speak, an inclined track or way for the descent of the hay to the floor, the hay as it is removed from the floor by the stock at the lower outlet of the rack causing the automatic feeding of the balance downward to supply the deficiency. It will be observed that the standards E and braces C are arranged on a common line and serve to partition off the floor, so as to prevent the stock from interfering with each other.

The operation of my invention will be readily understood from the foregoing description, taken in connection with the annexed drawings. The device is drawn to a stack of hay, and as much of the same as is found necessary and convenient is placed upon the rack. The same is then drawn to any desired point, and the stock allowed to feed in the space between the standards E, the hay descending from the inclined rack and accumulating on the floor below the lower outlet of the rack.

The stock eat from the floor or platform, and since the latter has a high wall of inclosing-boards, there can be no means of wasting the feed.

In case it is desired to detach the rack from the platform or manger, this can be effected by withdrawing the bolts which secure the lower ends of the uprights E to the braces D and to the support C, when the entire rack, which is attached to these uprights, may be lifted up and separated from the platform.

The object of having the inclined uprights and braces extending through holes in the floor or platform is to allow these parts to be bolted to the runners and transverse braces. The advantages gained by the peculiar connection shown are mainly strength and durability. The runners are braced and the entire rack held firmly in position and prevented from spreading. While it is strong and efficient in every respect, yet the rack is comparatively light, and may be readily drawn from place to place.

In defining the nature, scope, and advantages of the present invention, I would state that heretofore a feed-rack has been constructed comprising a floor or platform, to the under side of which are secured a pair of runners having transverse connecting-braces, and a rack proper, having its supporting posts or standards secured to the floor or platform. In this construction there are no braces or supports for the standards. Furthermore, my invention differs from this in that the standards for the rack are passed through openings in the floor or platform, and are secured to the transverse braces which connect the runners, the latter being fitted to the extended lower ends of the braces.

Having described my invention, I claim—

1. In a feed-rack, the combination, with the floor or platform A, provided with the side and end inclosing boards, B, of a series of braces or supports, C, having their lower ends extending through openings in the floor or platform, runners attached to the lower ends of the braces or supports, braces D, connecting the runners, and the inclined standards or uprights E, carrying the frame-work of the rack and having their lower ends extending through openings in the floor and secured to the braces D, as set forth.

2. In a feed-rack, the combination, with the floor or platform A, the runners M, and transverse braces D, having their ends notched to fit over the upper edge of the runners, of the braces C, extending through openings of the floor, and having their lower ends notched or rabbeted to fit over the runners to which they are secured, and the inclined uprights E, carrying the rack and having their lower ends passed through openings of the floor and secured to the transverse braces D, as set forth.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

ROBERT W. DYE.

Witnesses:
L. A. SCOTT,
H. C. TURNER.