

J. E. WENGER.
FEED TROUGH.

No. 494,236

Patented Mar. 28, 1893.

Fig. 1.

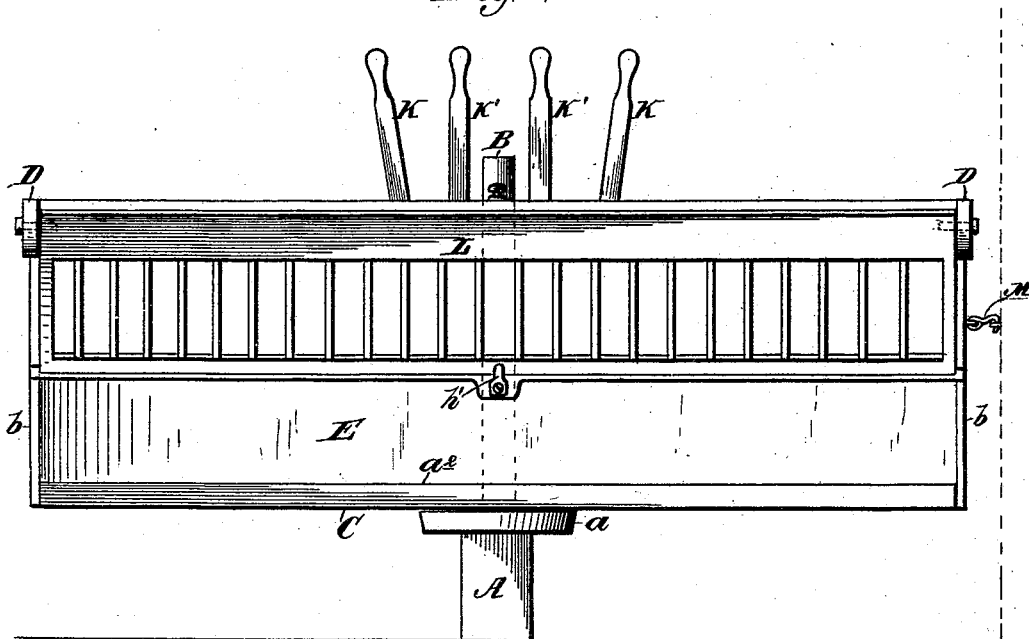
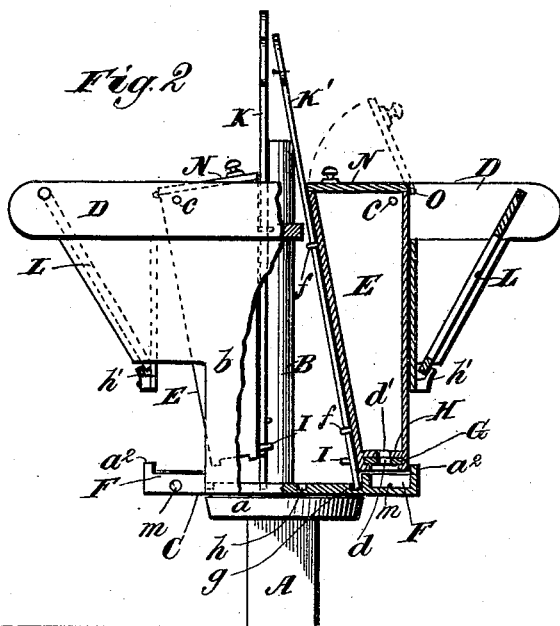


Fig. 2.



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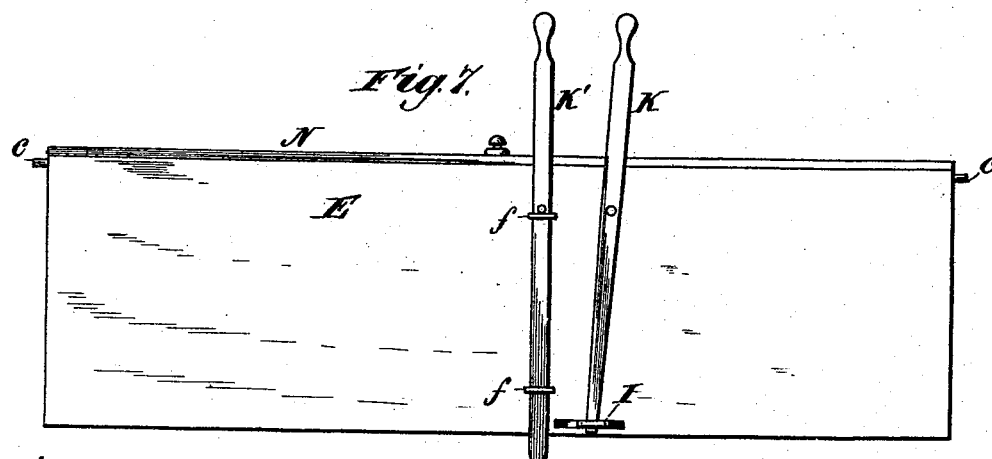
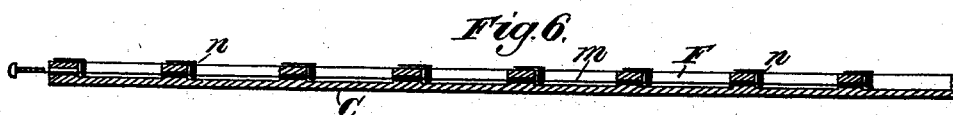
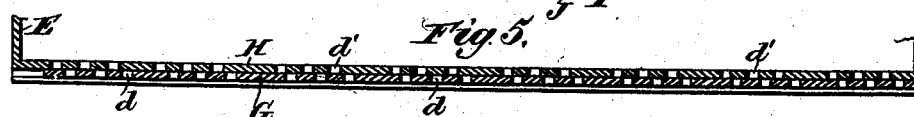
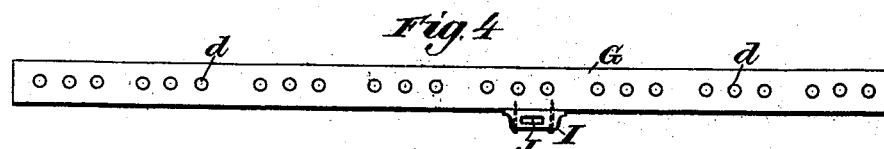
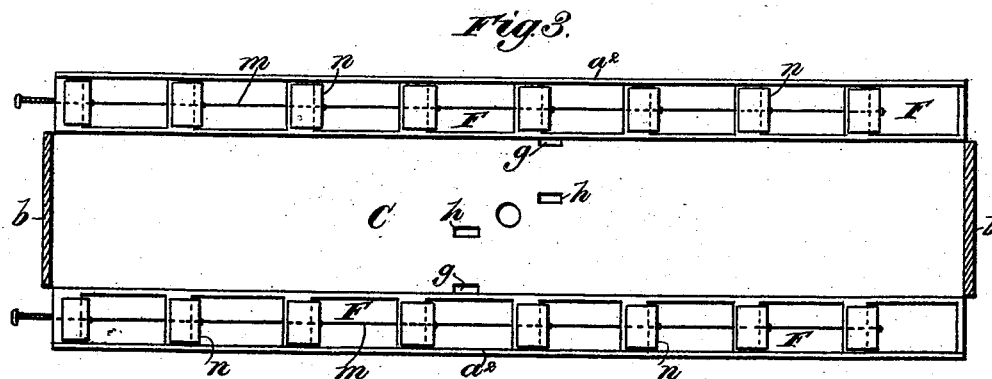
(No Model.)

2 Sheets—Sheet 2.

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UNITED STATES PATENT OFFICE.

JACOB E. WENGER, OF BURTON CITY, OHIO.

FEED-TROUGH.

SPECIFICATION forming part of Letters Patent No. 494,236, dated March 28, 1893.

Application filed December 2, 1892. Serial No. 453,812. (No model.)

To all whom it may concern:

Be it known that I, JACOB E. WENGER, a citizen of the United States, residing at Burton City, in the county of Wayne and State of Ohio, have invented certain new and useful Improvements in Mangers 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, in which—

Figure 1, is a front view, showing the device properly mounted upon its pivotal post or standard. Fig. 2, is a transverse section. Fig. 3, is a view of the feed boxes, showing the parts above the feed boxes removed. Fig. 4, is a top view of the grain slide. Fig. 5, is a longitudinal section of the feed slide and its top or upper plate. Fig. 6, is a view showing a portion of the gage rod, and the plates fixed thereto. Fig. 7 is a view of the inner side of one of the hoppers and levers.

The present invention has relation to managers and feed troughs and it consists in the different parts and combination of parts hereinafter described and particularly pointed out in the claims.

Similar letters of reference indicate corresponding parts in all the figures of the drawings.

In the accompanying drawings A represents the post or standard which is securely seated in the ground, or fixed to the floor of a shed or barn. To the top or upper end of the post A, is securely fixed in any convenient and well known manner, the head *a*, which head may be substantially of the form shown in the drawings. To the post A is securely attached the rod B, which may be a hollow tube such as a gas-pipe and extend upward so as to pass through the top of the rack proper. Upon the top or upper side of the head *a*, is located the bottom or base C, which is formed of a length to correspond with the length of the rack and manger. To the ends of the bottom or base C, are securely attached in any convenient and well known manner, the ends *b*, to which ends are attached the cross-bars D, said cross-bars being formed somewhat longer than the width of the ends *b*. To the cross-pieces D, are pivot-

ally attached the top or upper ends of the hoppers E, which hoppers are substantially of the form shown in Fig. 2, and are pivotally connected at their upper and outer corners by means of the clamping bolts or pivots *c*. Below the hoppers E, are located the feed boxes F, which feed-boxes are divided into different compartments, and should be of a size to hold about four quarts of grain. But it will be understood that different sized feed boxes may be used without departing from the nature of my invention. These feed boxes are arranged substantially as illustrated in Fig. 3; and as shown, they are fixed to the bottom or base C.

Above the feed boxes F, are located the sliding bars G, which sliding bars are provided with the opening such as *d*. Above the sliding bars G, are located the fixed plates H. The fixed plates H, are provided with apertures *d'*, which apertures correspond in size with the apertures *d*, formed in the sliding plates G, and are so located and arranged that they will register with the apertures *d*, when the sliding plates are brought in proper position to register with the apertures *d'*.

For the purpose of providing a means for moving the sliding-plate G longitudinally, the inner edge of said plate is provided with an extension such as I, which extension is provided with an opening or mortise J.

To the hoppers E, are pivotally attached the levers K, which levers extend up and beyond the top or upper ends of the hoppers E, substantially as shown in the drawings and their bottom or lower ends engage one of the apertures J. To the inner sides of the hoppers E, are adjustably attached the levers K', which levers are held to the hoppers E, by means of the staples *f*, which staples are fixed to the inner sides of the hoppers E.

When it is desired to place the hoppers, and hold them in the position illustrated in Fig. 2, the bottom or lower ends of the levers K', are entered into the apertures or notches *g*, thereby securely holding the hoppers in the position illustrated in said figure. When it is desired to swing the hoppers inward, and thereby open the feed boxes F, the levers K' are elevated until their bottom or lower ends are disengaged from the notches *g*, at which time the hoppers are free to be turned inward

upon their pivots *c*, which movement opens or exposes the feed boxes *F*. The hoppers *E*, are formed of sufficient size to hold a quantity of grain such as shelled corn or oats; and when it is desired to fill the boxes *F*, with grain, the levers *K* are turned upon their pivotal points, which movement brings the apertures *d* and *d'* in line, thereby permitting the grain to enter the feed boxes. When the feed boxes have been properly filled, the lever or levers *K*, are forced in the opposite direction, thereby closing the apertures and cutting off the flow of grain. It will be understood that the sliding-bar *G*, should be formed somewhat shorter than the bar *H*, thereby permitting the sliding bar *G* to move longitudinally; the movement of said sliding-bar being limited by its length, so as to open and close the apertures *d* and *d'*. For the purpose of holding the hoppers when they are turned inward, the notches *h* are provided, which notches are located substantially as illustrated in Fig. 3, and are so arranged that the levers *K'* can be engaged with said notches.

For the purpose of providing a means for feeding hay, the pivoted racks *L* are provided, which racks are located substantially as shown in the drawings; and as shown their top or upper ends are pivoted to the cross bars *D*, and are held in the position illustrated in Fig. 2 by means of the buttons *h'*, which buttons engage the bottom or lower edges of the racks *L*. When it is desired to empty the refuse hay, or straw from between the racks, *L*, and the partitions *E'*, the buttons *h'* are turned so as to disengage the racks; at which time the racks are free to swing outward thereby permitting the refuse hay to fall upon the ground or floor. It will be understood that by setting the feed trough and manger upon the post *A* and journaling the same upon the top or upper end thereof, that the entire manger and feed trough can be rotated, thereby providing a means for changing the position of the feed trough and rack, and thereby providing a means for allowing sheep to pass the feed trough and manger proper, it being understood that the construction of the feed trough and manger here described, is calculated and designed more especially for sheep.

For the purpose of locking the feed troughs and manger in any desired position upon their pivotal points, the hooks *M* are provided, which hooks may be entered into staples in the side of a building or posts as desired. For the purpose of regulating the amount of grain to be placed in the feed troughs or boxes *F*, the rods *m* are provided, which rods

are located just above the bottom of the feed boxes, to which rods are securely attached the blocks *n*, which blocks are provided with metal plates or caps, extending partially over the tops of the feed boxes, and thereby partially closing their tops. The rods *m* extend a short distance past and beyond the ends of the feed trough proper, and are provided with a gage, said gage being for the purpose of indicating the capacity of the feed boxes. The tops or upper ends of the hoppers *E*, are provided with the hinged covers *N*, which hinged covers are located substantially as shown in the drawings, and are provided with the hinges *O*. For the purpose of holding the feed boxes *E* in proper lateral adjustment, the ribs or flanges *a'*, are provided and are located substantially as shown in the drawings.

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

1. The combination of the post *A*, provided with the bar *B*, the base or bottom *C*, having fixed thereto the ends *b*, the feed boxes *F*, the sliding bar *G*, the fixed bar *H*, and the apertures *d* and *d'*, located in said bars, the pivoted hoppers *E*, and the levers *K* and *K'*, all arranged substantially as and for the purpose specified.

2. The combination of a manger and feed trough, having a series of feed boxes and pivoted hoppers located above said feed troughs, and adapted to swing inward and away from the feed boxes, the sliding bar *G*, and the fixed bar *H*, the levers *K'* and means for holding the hoppers over or away from the feed boxes, substantially as and for the purpose specified.

3. The combination of a feed manger and trough, pivoted upon the post *A*, a series of feed boxes, pivoted hoppers provided with bars at their bottom or lower ends provided with apertures, and means for opening and closing said apertures, substantially as and for the purpose specified.

4. The combination of a base provided with end pieces, having fixed thereto the cross bars *D*, the pivoted hoppers *E*, provided with the levers *K* and *K'*, the rack *L*, pivoted to the bars such as *D* or their equivalents, and the buttons or catches *h'*, substantially as and for the purpose specified.

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

JACOB E. WENGER.

Witnesses:

F. W. BOND,
LAURA SHAEFFER.