

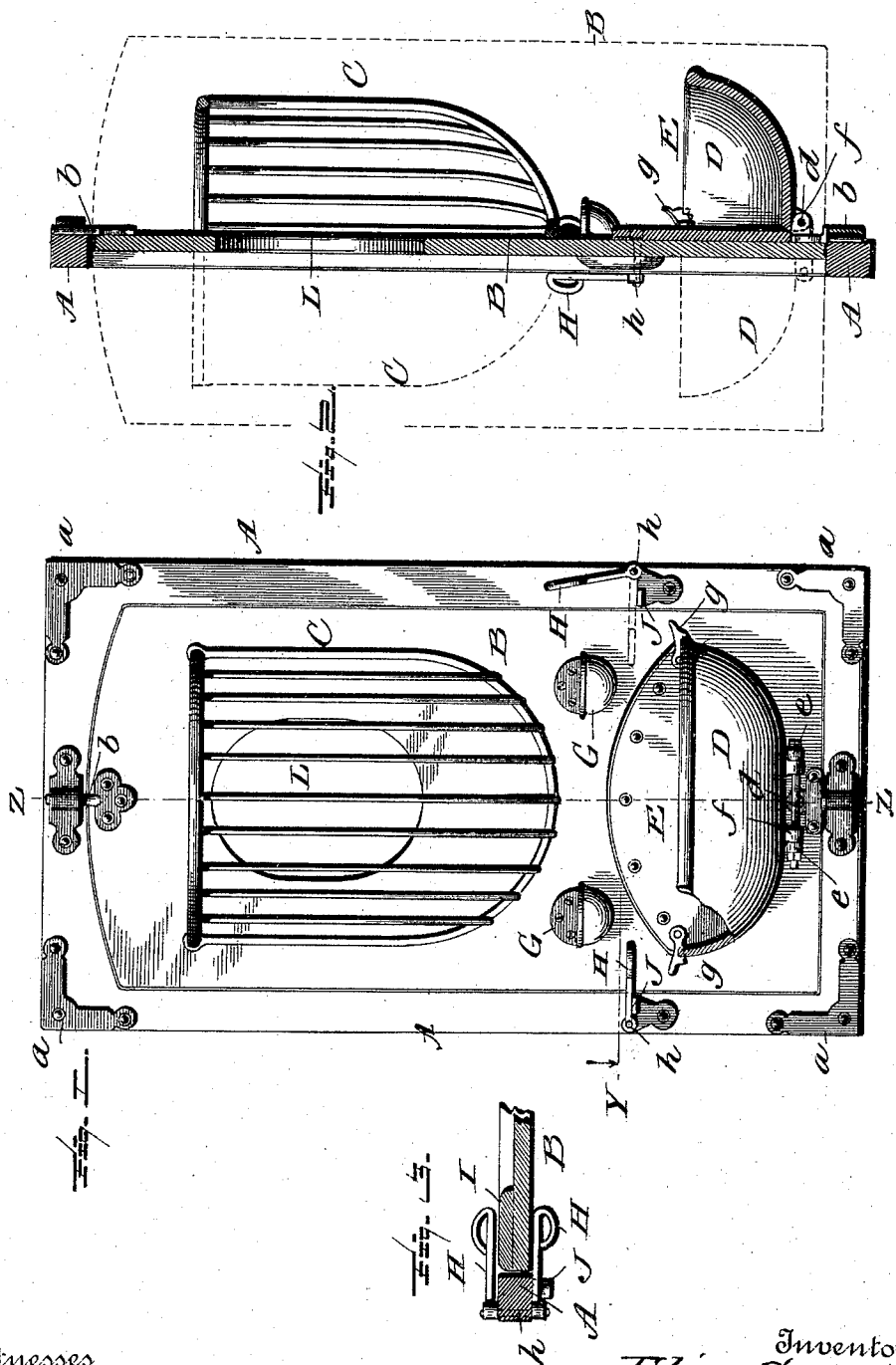
(No Model.)

E. S. HALL.

MANGER.

No. 476,265.

Patented June 7, 1892.



## Witnesses

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# UNITED STATES PATENT OFFICE.

ELIAS S. HALL, OF SOMERVILLE, NEW JERSEY.

## MANGER.

SPECIFICATION forming part of Letters Patent No. 476,265, dated June 7, 1892.

Application filed January 28, 1892. Serial No. 419,514. (No model.)

*To all whom it may concern:*

Be it known that I, ELIAS S. HALL, a citizen of the United States, residing at Somerville, in the county of Somerset and State of New Jersey, have invented certain new and useful Improvements in Mangers; 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 devices for use in stables and stalls, whereby the care and feeding of the horses is rendered more pleasant and easy and less liable to subject the attendant to injury from kicking horses. I provide a reversible manger hung on vertical pivots at its vertical center and designed to be turned round into the hall or passage-way for the filling of the rack or the water trough or bowl, and then turned back again. In this manner the stall may be an ordinary stall or a box-stall, as may be desired. Suitable means are provided for holding the manger in either position, and the water-bowl is so supported that it may be readily turned down for the purpose of cleaning or other purposes.

Other objects and advantages of the invention will hereinafter appear, and the novel features thereof will be specifically defined by the appended claims.

The invention 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 front view with parts broken away. Fig. 2 is a central vertical section through the line *z z* of Fig. 1. Fig. 3 is a detail in section on the line *y* of Fig. 1.

Like letters of reference indicate like parts throughout the several views in which they occur.

Referring now to the details of the drawings by letter, A designates the frame-work, which may be of any suitable construction, provided with the metal corner-pieces *a*, as seen in Fig. 1.

B is the reversible panel. It is made of wood or any other suitable material, and is pivotally supported by the vertical pintles *b* on the one part, fitted into sockets on the

other part, so that the panel can be easily turned in either direction, as may be desired. This panel carries a rack C for hay, and which is secured thereto near the upper end in any suitable manner, and is preferably of a round contour with round bottom. It may be of any well-known or approved form of rack.

Beneath the rack is the feed-box or water trough or bowl D, which is hinged thereto at the bottom, being supported on the rod *d*, held in the ears *e* on the plate E, secured to the panel, and the feed-box provided with ears *f*, sleeved on the said rod, so that the feed-box can be turned down, when desired. The feed-box is held in its operative position by suitable means, as the pivoted latches *g*, as shown in Figs. 1 and 2.

Secured to the panel between the rack and feed-box are the receptacles G, which may be used to contain salt or any other material desired.

The panel is held in either position by suitable fastenings, as the latches H, which are preferably of wire fast on a common pintle *h*, and arranged one at each edge of the panel and upon opposite sides thereof, as seen in Fig. 3, so as to bind upon both sides of the panel, as will be understood from said Fig. 3. A plate I is secured to the panel upon the reverse side to receive the fastening, as seen in Figs. 2 and 3. Stop-lugs J are secured upon the frame, as seen in Fig. 1, to keep the latches in a horizontal position and hold the panel locked. A suitable hole L is made in the panel opposite the rack, through which the hay may be fed and through which the horses may be seen.

Fig. 2 shows by full and dotted lines the two positions of the panel and its rack and feed-box, while the extended dotted lines show the position of the panel when turned half-way round.

What I claim as new is—

1. The combination, with the frame, of a reversible panel pivotally supported therein, a rack and feed-box on the panel, and latches on the frame engaging the panel to hold it from swinging, substantially as specified.
2. The combination, with a fixed frame, of a panel pivoted centrally at top and bottom by vertical pintles in said frame and provided with an opening, a feed-rack fixedly secured

to the said panel over said opening, and pivoted latches for engaging and holding the panel in its closed positions, as set forth.

3. The combination, with a fixed frame, of a panel pivoted to turn therein on vertical pintles at the top and bottom and provided with an opening, a feed-rack on the panel over the opening, pivoted latches on the frame, and stop-lugs on the frame for engag-

ing the latches, 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.

ELIAS S. HALL.

Witnesses:

JNO. A. FRECH,

THOS. GALLAGHER.