

(No Model.)

2 Sheets—Sheet 1.

C. H. WILLSON.

MANGER.

No. 258,838.

Patented May 30, 1882.

Fig. 1.

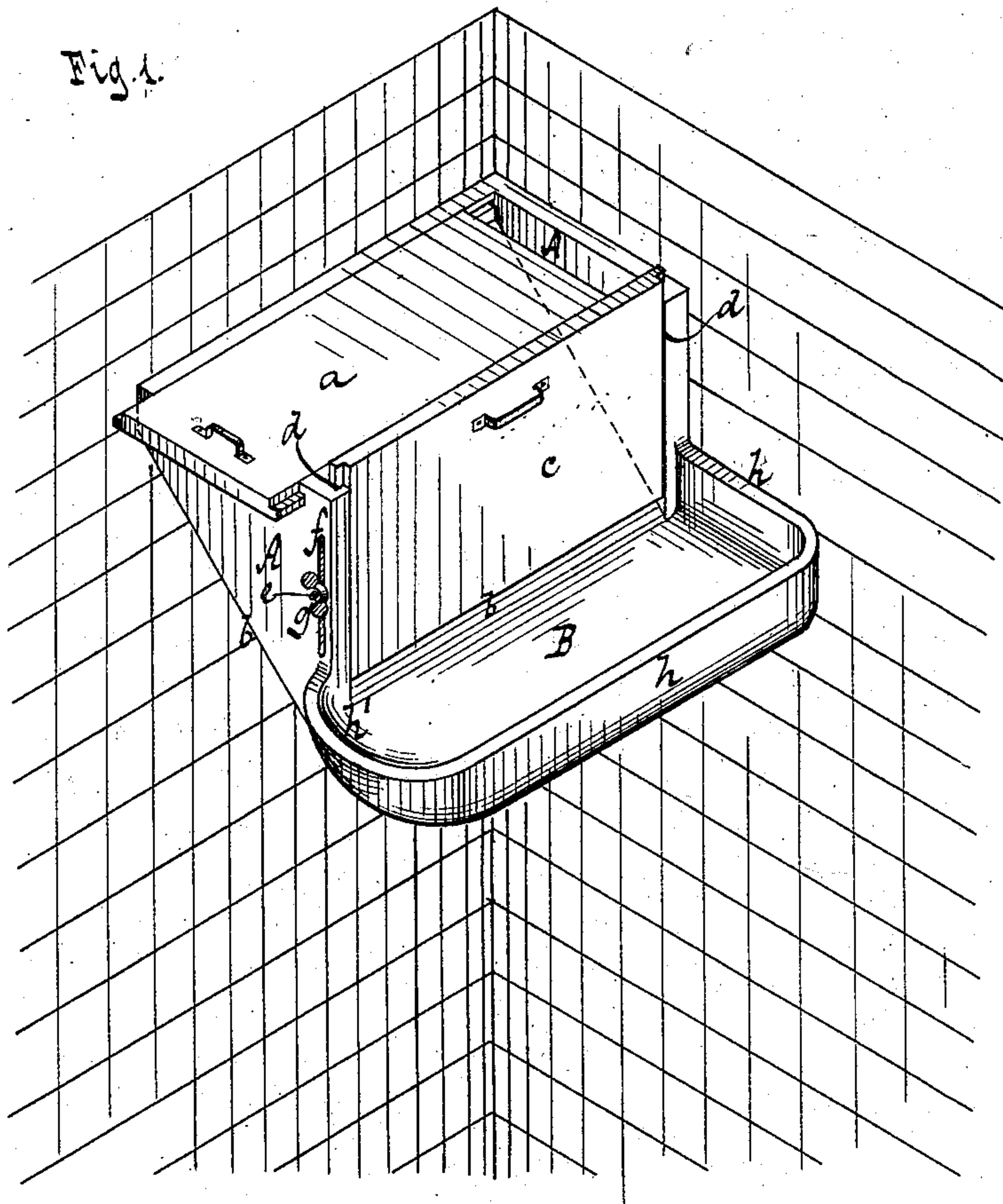


Fig. 2

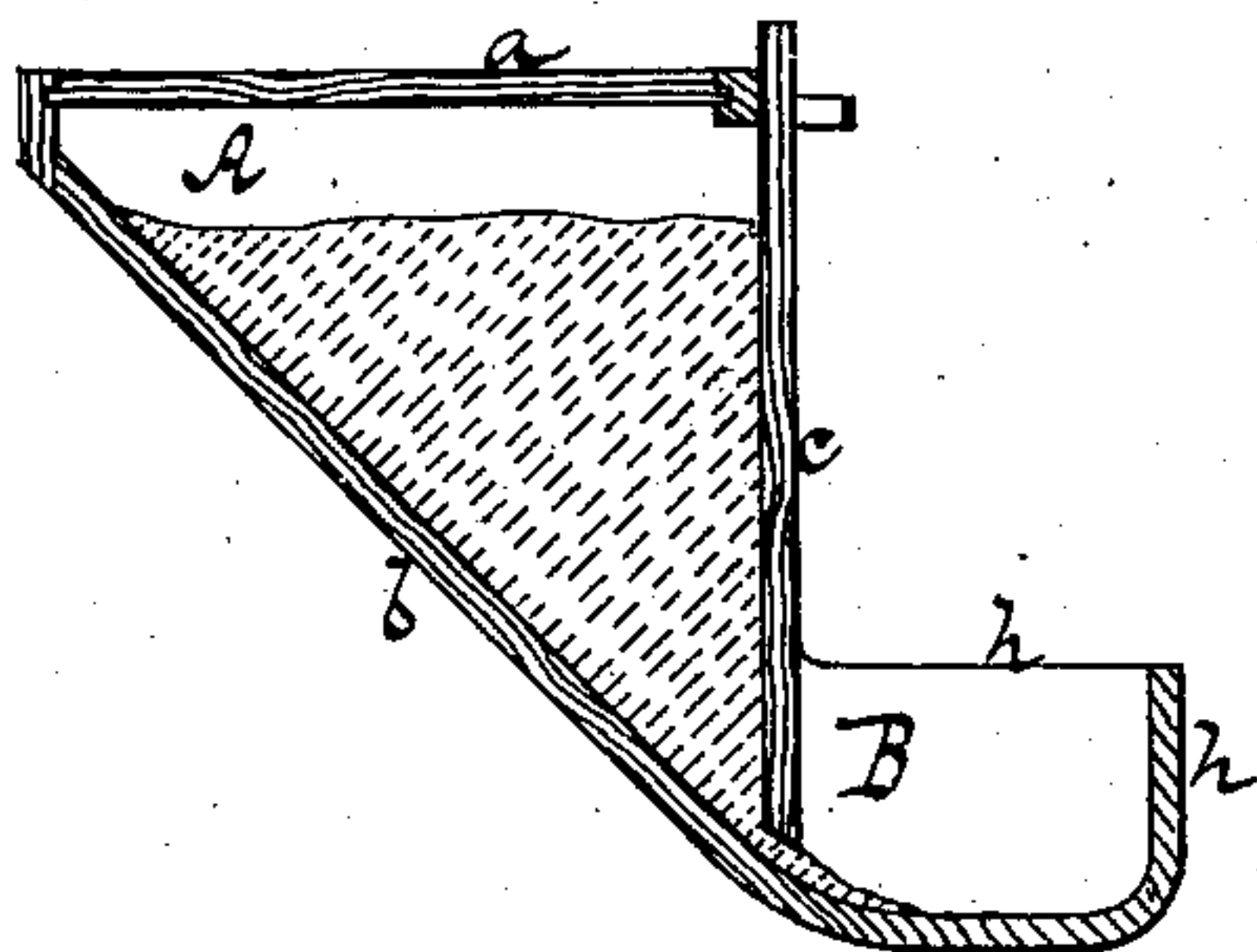
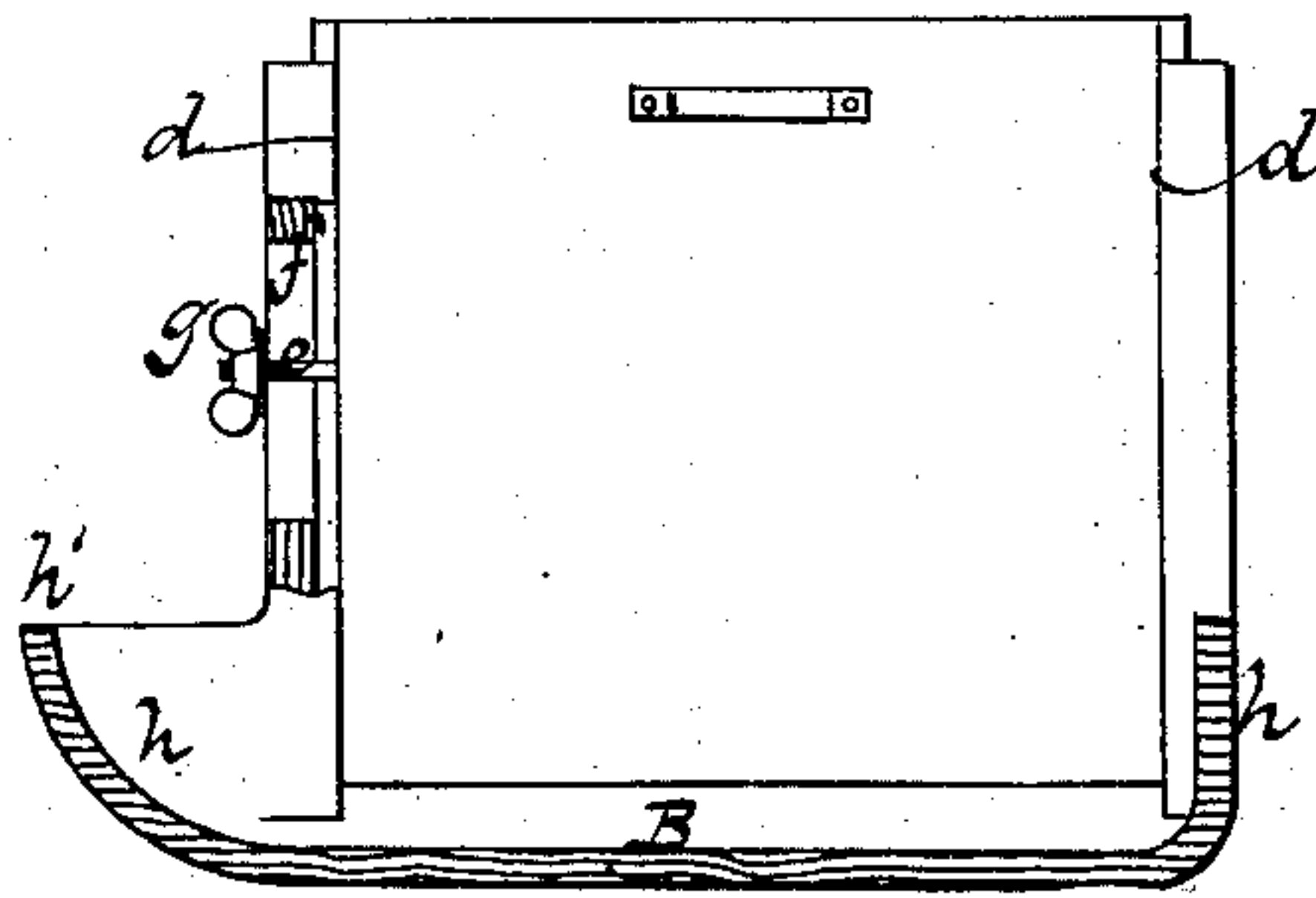


Fig. 3.



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Fig. 4.

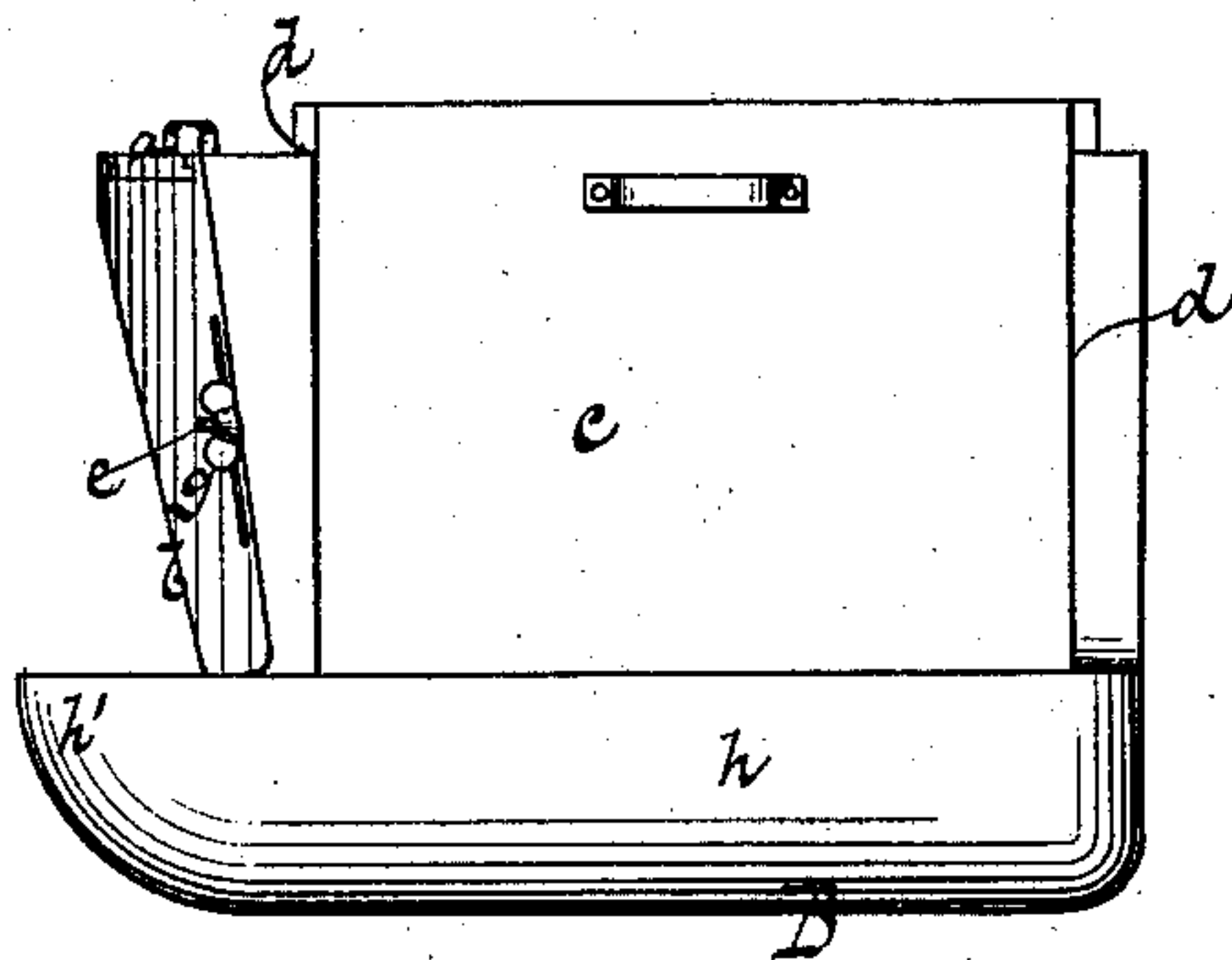
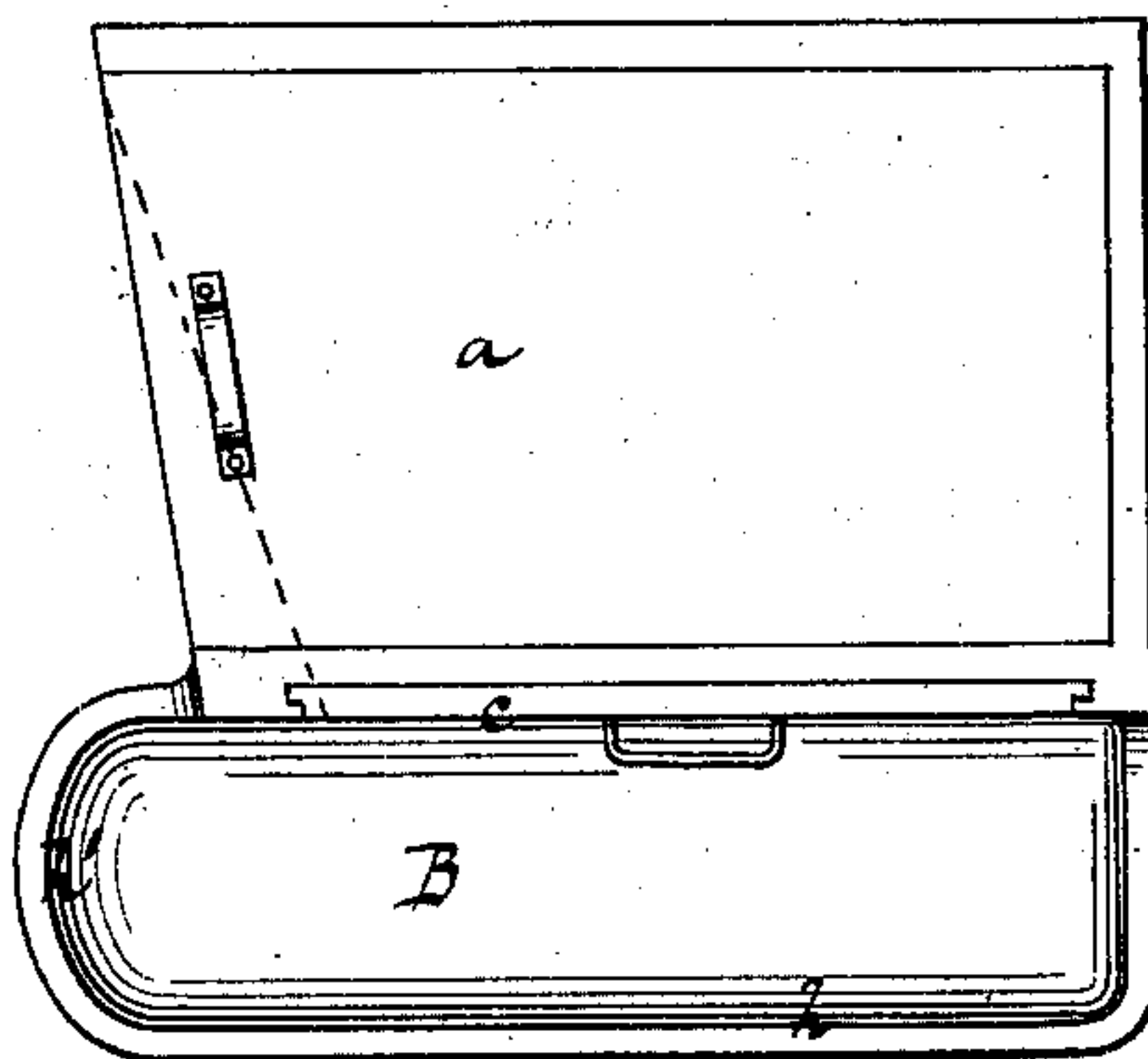


Fig. 5.



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UNITED STATES PATENT OFFICE.

CHARLES H. WILLSON, OF MOUNT VERNON, NEW YORK.

MANGER.

SPECIFICATION forming part of Letters Patent No. 258,838, dated May 30, 1882.

Application filed March 9, 1882. (No model.)

To all whom it may concern:

Be it known that I, CHARLES H. WILLSON, a citizen of the United States, residing at Mount Vernon, in the county of Westchester, in the State of New York, have invented new and useful Improvements in Mangers for Horses and Cattle, of which the following is a specification.

The object of my invention is to provide a manger for horses and other animals wherein the food is fed into a feed-basin under a vertically-adjustable slide or door, and in which the feed-basin has a vertical end so arranged as to come against the inner end of the stall, the back part of the feed-box coming against the left-hand side of the stall, all in such manner that the feed-basin projects laterally in the stall, and an extension of the feed-basin is arranged to project in the direction of the entrance of the stall.

The object of my invention I accomplish by the construction and arrangement of manger illustrated in the accompanying drawings, in which—

Figure 1 is a perspective view. Fig. 2 is a cross-section. Fig. 3 is a longitudinal section through the trough. Figs. 4 and 5 show my improved manger so shaped that the side of the box nearest the animal is inclined both downward and forward.

Similar letters indicate corresponding parts.

In the drawings, the letter A designates a grain box or reservoir closed on its top by a sliding door, *a*. The rear or bottom *b* of the grain-box is inclined downward toward the feed-basin B, whose flat bottom it meets at the lower part of the box, as is shown in the drawings. The front side of the box is closed by a vertical slide or door, *c*, which slides up and down in grooves *d*, provided for that purpose in the upright side walls of the box. This door is fastened at any desired height by any suitable device for that purpose, and constitutes a front wall to the box or reservoir. I have shown in the drawings a clamping-nut, *g*, which screws upon a threaded rod that extends from the end of the door C through a slot, *f*, made in the side of the box. The door C extends across the front of the grain-box, and its bottom edge is rectilinear to correspond to the flat bottom of the feed-basin B, so that when

said door is slightly raised, as shown in the drawings, a shallow stream of grain runs out from the grain-box to the feed-basin, the flow being regulated by the height at which the door is adjusted.

The apparatus is intended to be placed in the left-hand corner of a stall, so that the grain-box and feed-basin will extend lengthwise along the side of the stall. The feed-basin B is provided with a rim, *h*, of suitable height. At its inner end the basin B extends as far as the grain-box, but at its outer end it is extended outward beyond the adjacent end of the grain-box and beyond that end of the door far enough to permit the mouth of the animal to enter the feed-basin between the end *h'* of the feed-basin and the adjacent end of the door C, whereby the animal will be able to take the grain away from the bottom of the door at its adjacent end or corner, as well as elsewhere along the door, and consequently the grain will not be left piled in that corner of the box, as would be the case if the feed-basin terminated at that end in line with the grain-box and the animal was not able to get his lips near to the adjacent corner of the door. The feed-basin B is rounded at its extended part *h'*, which is the part that the animal approaches when he is feeding at the basin, so that he will not be likely to get hurt from contact with it. When soft feed is used the front slide or door is taken out or raised upward out of the way.

My improved manger can be made of wood or metal or other suitable material.

Feed-troughs for animals have heretofore been made so that the food is delivered under a vertically-adjustable slide or door to a projecting feed-basin, the food-receptacle having inclines for directing the food downward toward the discharge-opening under the slide or door; but such features are not broadly claimed by me.

My improved manger, as shown in this example of my invention, is so arranged that the vertical end *h* of its feed-basin B comes against the inner end of the stall, the back part of the feed-box coming against the left-hand side of the stall. This arrangement causes the feed-basin to project laterally in the stall, being parallel with it, and causes the extension *h'* of the feed-basin to project in the direction of the

entrance of the stall. Of course the arrangement will be reversed should one place the mangers on the opposite side of the stall.

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

The combination, in a manger, of the feed-box A, arranged along the side of a stall, and provided with a sliding vertical door, C, arranged to extend over and form the front of the feed-box, the flat-bottomed feed-basin B, extending laterally from the feed-box, and the extension *h'* of the feed-basin, projecting for-

ward beyond the door C and beyond the adjacent end of the feed-box, and curved within and without, substantially as shown and described.

In testimony whereof I have hereunto set my hand and seal in the presence of two subscribing witnesses.

CHAS. H. WILLSON. [L. s.]

Witnesses:

J. VAN SANTVOORD,
E. F. KASTENHUBER.