(No Model.)

W. A. LEECH.

FEED TROUGH.

No. 462,146. Patented Oct. 27, 1891.

Fig. 1.

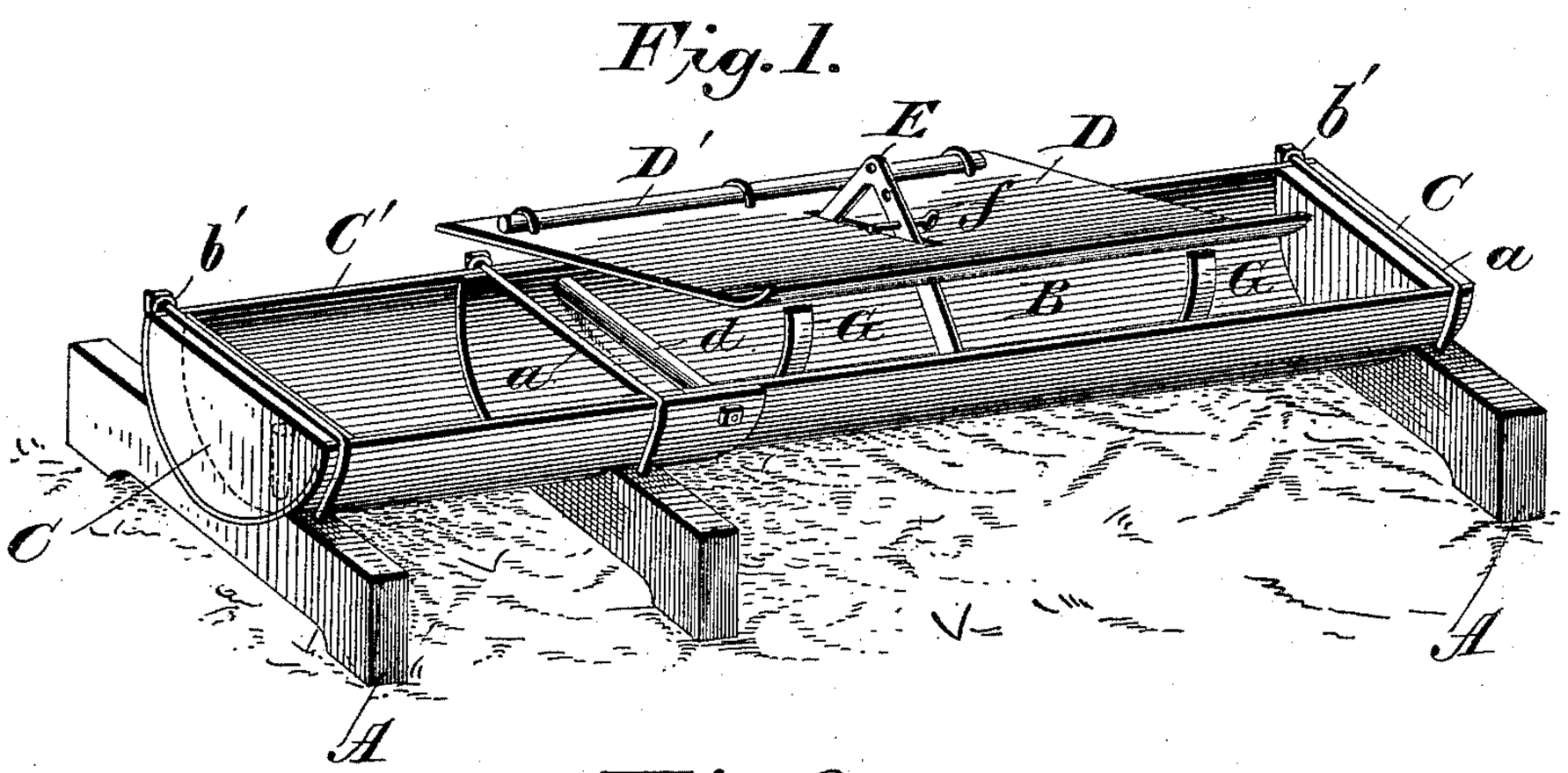
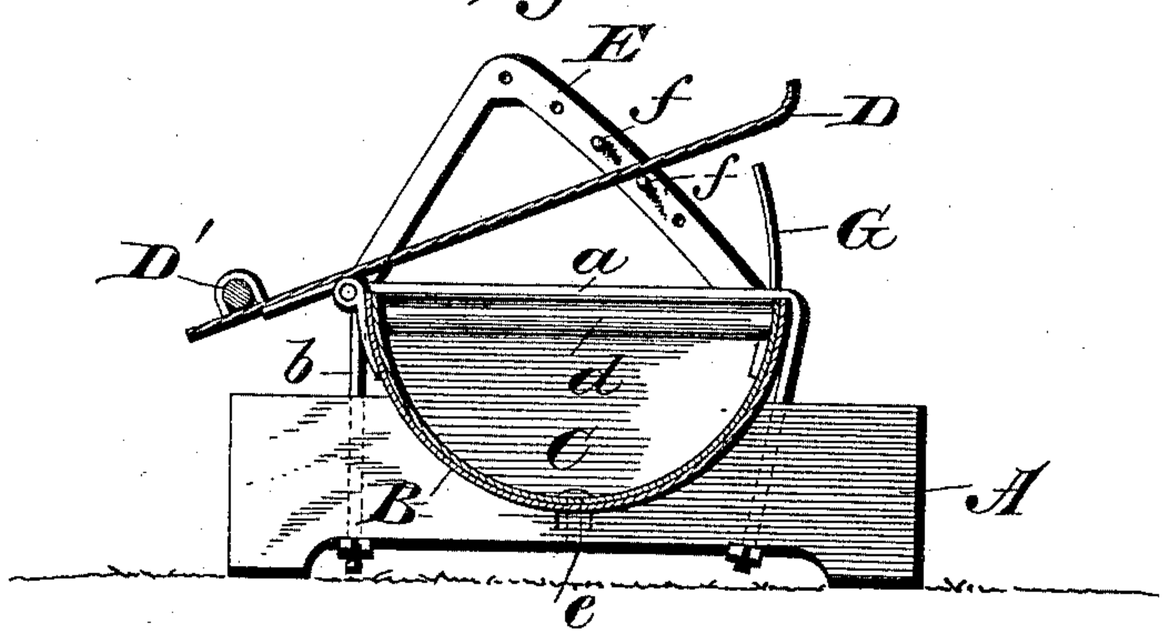


Fig. 2.



Witnesses
L. S. Elliott.
E. M. Johnson

William A. Leech.
Inventor
by E. M. Johnson
Attorney

UNITED STATES PATENT OFFICE.

WILLIAM A. LEECH, OF LAMAR, MISSOURI.

FEED-TROUGH.

SPECIFICATION forming part of Letters Patent No. 462,146, dated October 27, 1891.

Application filed April 23, 1891. Serial No. 390,153. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM A. LEECH, a citizen of the United States of America, residing at Lamar, in the county of Barton and State of Missouri, have invented certain new and useful Improvements in Feed-Troughs; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

This invention relates to improvements in feed-troughs.

The object of the invention is to provide a feed-trough which is simple in construction and which may be extended to provide additional lengths when desired; and it consists in the construction and combination of the parts, as will be hereinafter fully set forth, and particularly pointed out in the claims.

In the accompanying drawings, forming part of this specification, Figure 1 is a perspective view of a feed-trough, showing a part cover applied thereto, and in this view one end of the trough is adapted to extend into a pen, while the opposite end projects through the pen for filling the same. Fig. 2 is a vertical sectional view.

A A designates suitable supports, preferably blocks of wood, having semicircular depressions for the reception of the trough B, said trough being made up of sheet metal and shaped as shown. The trough is provided with end pieces C C, adapted to fit within the same, and these parts are clamped to the base-pieces A A by rods *a* and *b*, the rods *b* having eyes *b'* formed in their upper ends, while their lower ends are screw-threaded for the reception of nuts. The rods *a* are bent and provided at both ends with screw-threads and nuts, so that they can be tightened for securing the end pieces in place, or loosened when it is desired to remove said end pieces and extend the trough by adding another section, as C', thereto. The cross-bars *d*, consisting of bolts running through tubes, can be employed at suitable intervals near the upper edge of the trough, either for re-enforcing said trough or to assist in connecting another section thereto; and when an additional section is added the parts may be further united by a bolt, as *e*, which passes through perforations in the ends of the sections on a line with the cross-bar *d*.

The trough B is provided with a cover D, which is suitably hinged thereto. The portion of the cover which projects beyond the rear edge of the trough carries a weighted bar D'. The cover is held in an inclined position by an angle-bar E, which passes through a slot in said cover and has a series of perforations through which pass pins *f*, for holding the cover at the proper angle, the front end of which is turned up, as shown. Supports G may also be attached to the front edge of the trough. This part cover will prevent hogs or other animals putting their feet in the trough and waste the contents thereof.

Having thus described my invention, I claim—

1. In combination with a trough B, secured to base-pieces, an angle-bar E, secured to the trough, and a cover D, having a slot through which the angle-plate E passes, together with pins *f*, which enter perforations in the angle-bar for holding the cover in a fixed position, substantially as shown, and for the purpose set forth.

2. In combination with an animal-trough constructed substantially as shown and provided with an angle-plate E, secured to the trough to project above the same, the front portion of said angle-plate having a series of perforations for the reception of a pin *f* for limiting the upward movement of the cover, said cover being hinged to the trough and provided with a projecting end carrying a weight D', by means of which the cover is held normally elevated, substantially as set forth.

In testimony whereof I affix my signature in presence of two witnesses.

WILLIAM A. LEECH.

Witnesses:
WALTER J. MILLER,
ISAAC P. PARSONS.