No. 653,355. Patented July 10, 1900.

W. R. MAGIE.

FEED TANK.

(Application filed Sept. 13, 1899.)

(No Model.)

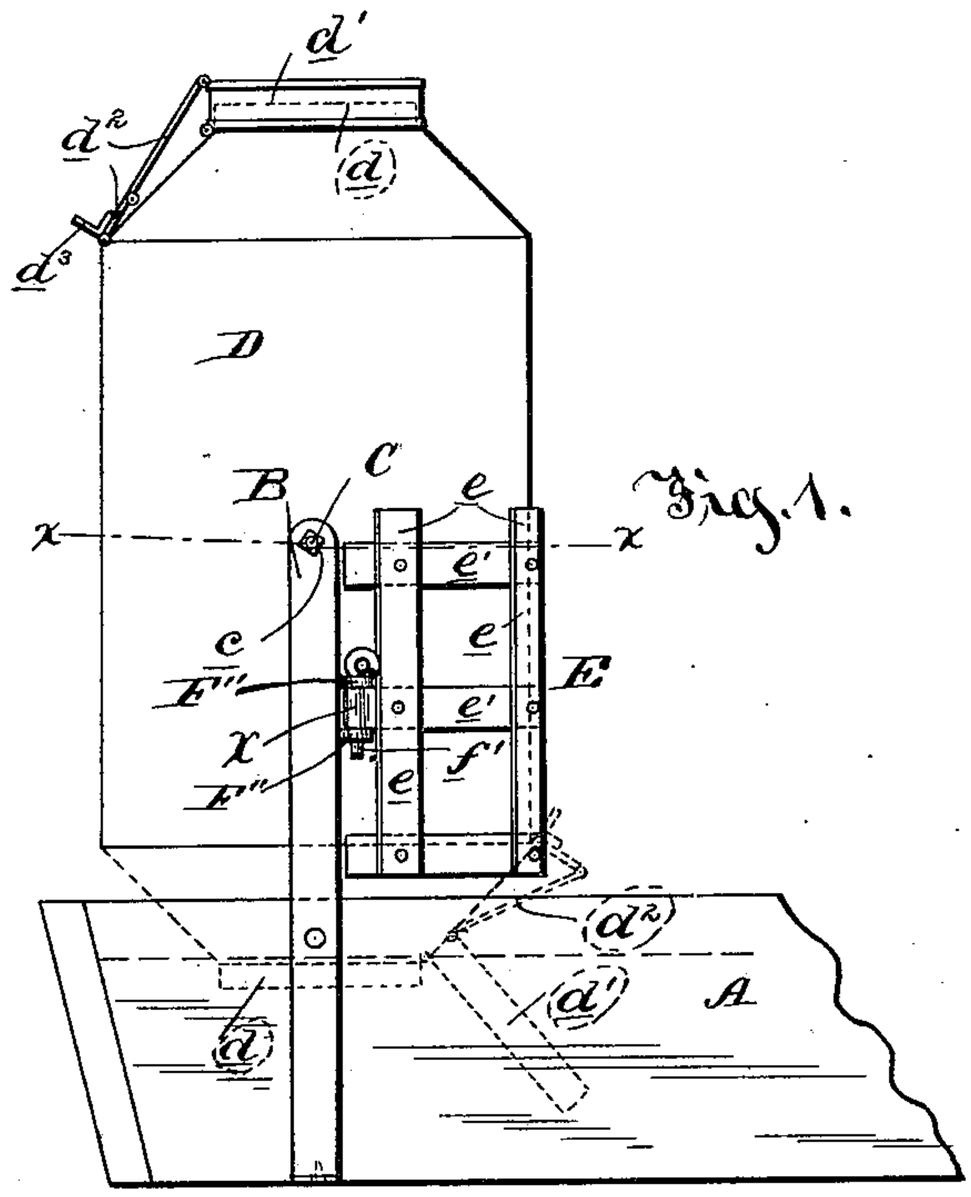

Fig. 1.

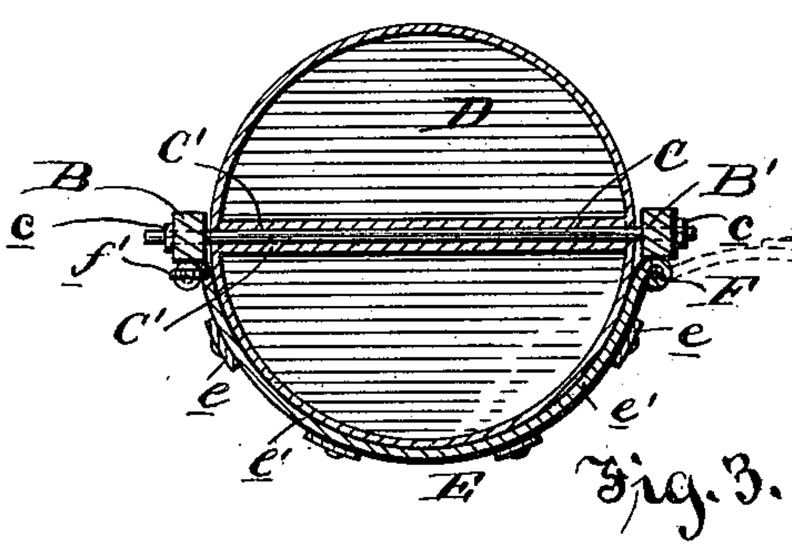

Fig. 3.

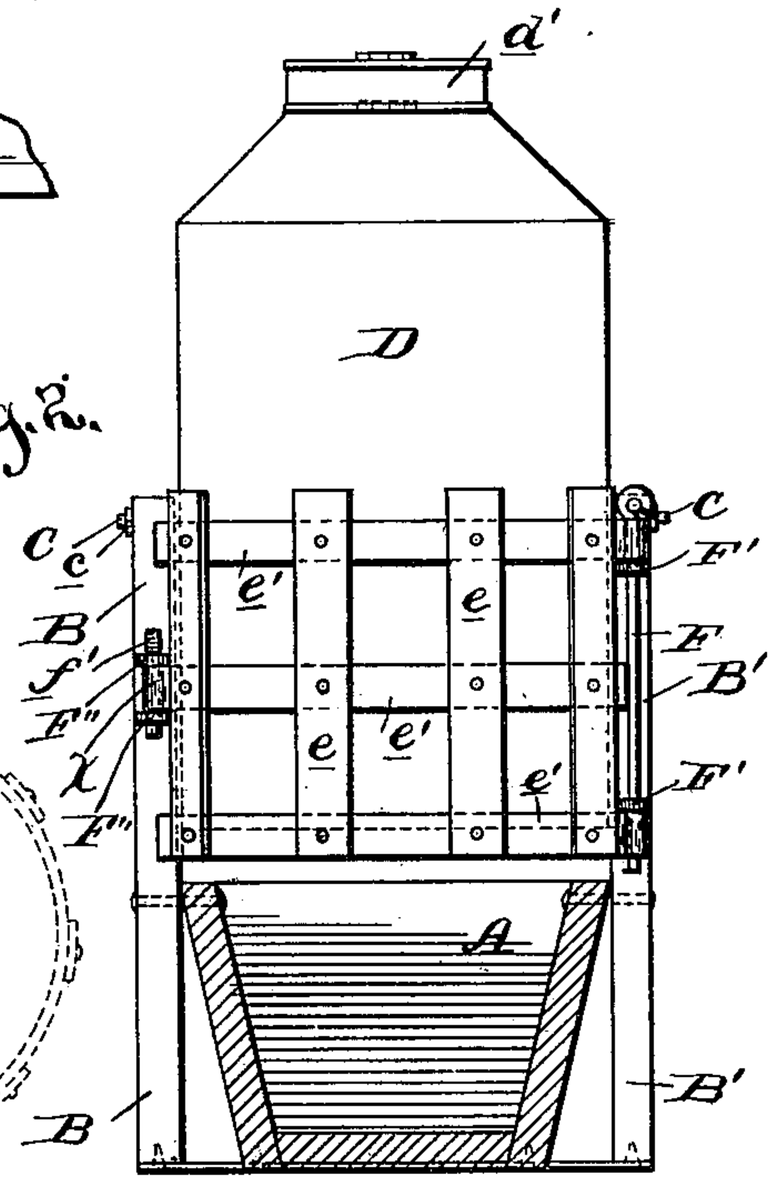

Fig. 2.

WITNESSES:

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UNITED STATES PATENT OFFICE.

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FEED-TANK.

SPECIFICATION forming part of Letters Patent No. 653,355, dated July 10, 1900.

Application filed September 13, 1899. Serial No. 730,309. (No model.)

To all whom it may concern:

Be it known that I, WILBER R. MAGIE, a citizen of the United States, residing at Paulding, in the county of Paulding and State of Ohio, have invented certain new and useful Improvements in Feed-Tanks; and I do 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 the letters of reference marked thereon, which form a part of this specification.

My invention relates to improvements in feed-tanks, and has for its objects, among others, to provide a tank that will permit of a continuous flow therefrom when in feeding position, to provide means whereby the tank may be righted to occupy an easy filling position and reversed to properly discharge or feed into a trough or the like provided for the purpose, and also to provide a simple and efficient means for locking or holding the tank in righted or reverse position, according to the will of the person using the same.

With such objects in view an embodiment of the invention is shown in the accompanying drawings; but it is not intended in the future interpretations of the same to be limited to the details and combinations of specific parts, which are delineated merely for the sake of illustrating a complete and operative construction.

In the drawings like reference characters refer to corresponding parts in the several views.

Figure 1 is a side elevation of the tank and a portion of a trough, the reversed position of the tank being shown in dotted lines. Fig. 2 is an end view looking from the right, and Fig. 3 is a cross-sectional view on the line $x\,x$ of Fig. 1.

Referring more specifically to the drawings, A represents the end of a feed-trough in connection with which the present invention is employed. Secured to the opposite sides of this trough and extending upwardly a desired distance are two side bars or standards B B′, constituting the direct support for the feed-tank. Near the upper ends of the standards and arranged to pass transversely through the center of a tank D is a supporting-rod C, fastened at its respective ends by locking-nuts *c*, and loosely sleeved upon this rod is a tube or hollow rod C′, upon which the tank is adapted to revolve.

The tank D is preferably circular in cross-section, tapered somewhat at its open end, and provided with a spout *d*. A cap or cover *d′*, hingedly secured to the tank, normally fits over the spout *d* and is operated through the medium of a toggle-lever d^2, hinged at its opposite ends, respectively, to the top edge of the cap and body of the tank and having at its outer end a finger-piece d^3. The cap is shown in closed position by full lines and in open position by dotted lines, it being assumed that the tank is in position to be turned.

That the tank in either its righted or reversed position may be held from swinging by reason of the force of a wind-draft or jar or the force exerted thereagainst by the feeding animals, I provide what I will term a "locking-gate" E, semicircular in cross-section and adjusted normally to fit around the tank, as clearly indicated in Fig. 3. This gate is formed of any desirable material, preferably of open-work, and, as shown, comprises the panels *e* and connecting-strips *e′*. One end of the gate is hinged to the standard B′ by means of the rod F and screw-eyes F′ and at the other end is provided with a vertical aperture X, adapted to register with the openings in screw-eyes F″, secured to the post B. A pin *f′*, passing through the openings in the screw-eyes and aperture in the gate referred to, holds the gate in closed position.

The use of the tank will be apparent. When being filled with feed, the tank will occupy a position with its spout upward, as shown in full lines, Fig. 1. When the tank is filled, the gate is released from the standard B and swung around to the dotted lines shown in Fig. 3 out of the way. The tank may then be readily revolved upon the tube C′ to the reverse or feeding position, (shown in dotted lines, Fig. 1,) when the gate will be again closed and latched. The material in the tank will feed out when the cap is opened into the trough until it reaches a level on the plane of the spout, which is so arranged as to pro-

ject slightly into the trough, when the material in the trough will close the mouth of the spout and prevent further feed until the level is reduced by material being consumed or taken from the trough. The feed may be stopped at any level, however, by merely closing the cap, as will be readily understood.

Having thus described the invention, what is claimed as new, and desired to be secured by Letters Patent, is—

1. In combination with a feed-trough, a revoluble feed-tank suitably mounted thereabove and having a discharge-opening therein, said opening being below the edge of the trough when in its lowermost position, substantially as described.

2. In combination with a trough or receptacle, a revoluble feed-tank having a suitable discharge projecting into the trough when in its lowermost position, and means for locking the tank in different positions, substantially as described.

3. In combination with a trough or receptacle, a revoluble feed-tank having a suitable discharge, and a gate of substantially the contour of the outside of the tank and extending above and below the pivot of the tank for locking the same in desired positions, substantially as described.

4. In combination with a trough or receptacle, a feed-tank having a suitable discharge, means for revolubly supporting the feed-tank thereon, and a hinged gate for locking the tank in righted or reversed position, the gate extending above and below the pivot of the tank, substantially as described.

5. In combination with a trough or receptacle, a revoluble feed-tank substantially circular in cross-section, and means for locking the tank in desired position, comprising a pivoted gate substantially semicircular in cross-section and extending above and below the pivot of the tank, and means for holding the gate in closed position, substantially as described.

6. In combination with a trough or receptacle, a revoluble tank having a suitable discharge projecting into the trough in its lowermost position, supporting means on the trough for the tank, a gate for locking the tank in reverse positions hinged to the supporting means, and means for locking the gate in closed positions, substantially as described.

7. In combination with a feed-trough, a feed-tank having a discharge-opening projecting below the upper edge of the trough when in its lowermost position, and means for mounting the tank above the trough so as to enable it to swing to and away from the same, substantially as described.

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

WILBER R. MAGIE.

Witnesses:
VANCE BRODNIX,
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