

(No Model.)

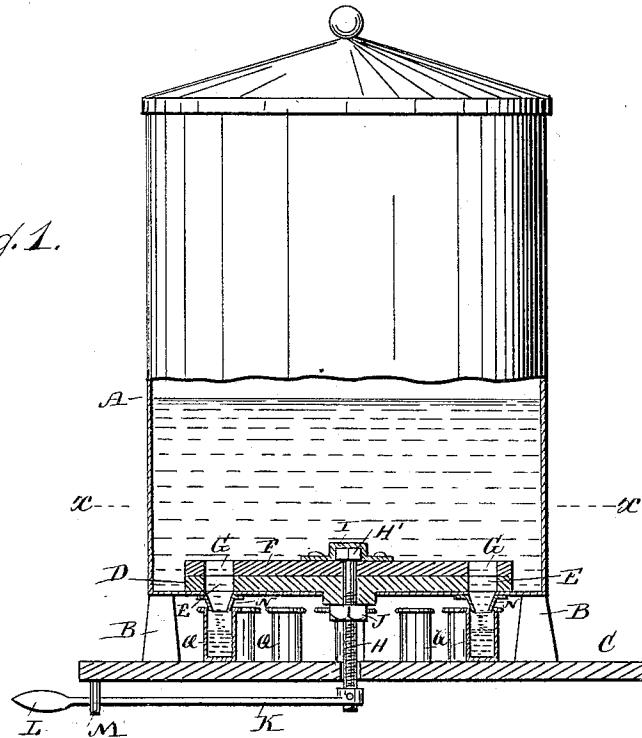
T. H. HATHAWAY.

FILLING APPARATUS.

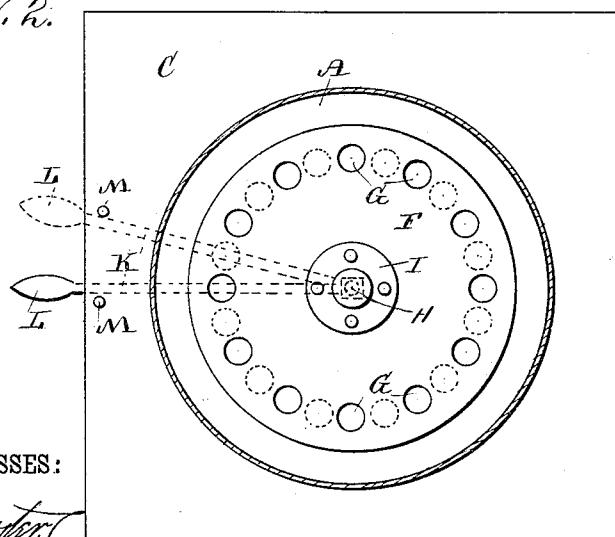
No. 350,675.

Patented Oct. 12, 1886.

*Fig. 1.*



*Fig. 2.*



WITNESSES:

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# UNITED STATES PATENT OFFICE.

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## FILLING APPARATUS.

SPECIFICATION forming part of Letters Patent No. 350,675, dated October 12, 1886.

Application filed May 8, 1886. Serial No. 201,550. (No model.)

*To all whom it may concern:*

Be it known that I, THOMAS H. HATHAWAY, of New Bedford, in the county of Bristol and State of Massachusetts, have invented a new and Improved Filling Apparatus, of which the following is a full, clear, and exact description.

The object of my invention is to provide a new and improved apparatus for filling liquids and other substances into any desired number of bottles or other receptacles in the same time that it would require to fill one bottle or receptacle.

The invention consists of various parts and details and combinations of the same, as hereinafter more fully described, and pointed out in the claim.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar letters of reference indicate corresponding parts in both the figures.

Figure 1 is a front elevation of my improvement, partly in section. Fig. 2 is a sectional plan view of the same on the line *x x* of Fig. 1.

The receptacle A, of any desired capacity and approved construction, is mounted on the standards or legs B, set on the table C, supported in any desired manner. To the inside of the bottom of the receptacle A is fastened the plate D, provided with the apertures E, placed in one or more rows on the said plate D. A plate, F, having apertures G, corresponding with the apertures E of the plate D, is placed on top of the latter, and is provided with a downwardly-extending bolt or pin, H, fastened in any desirable manner to the plate F, but preferably in the manner as shown in the drawings, in which the bolt H is provided with a square head, H', which fits into a corresponding recess in the covering-plate I, secured to the plate F. The plates D and F are ground upon their contacting surfaces, and are held together by a nut, J, screwed on the bolt H and against the under side of the plate D. The lower part of the bolt H passes through the table C, and to its lower end is fastened an arm, K, having a handle, L. The stop-pins M, secured to the table C, limit the movement of the arm K. The apertures E in the plate D continue through the bottom of the receptacle A, and each opens into a funnel or spout, N, secured to the bottom of the receptacle A.

The operation is as follows: When the receptacle A is to be charged with the substance to be filled into bottles or other receptacles, then the arm K is moved into the position shown in dotted lines in Fig. 2, whereby the plate F is turned on the plate D so that the apertures E and G are disconnected with each other, as shown in dotted lines in Fig. 2, and thereby prevent the substance now placed in the receptacle from passing through the said apertures E and G. The bottles or other receptacles Q are now placed on the table C, with their top openings under the funnels or spouts N. The number of bottles or receptacles Q corresponds with the number of funnels N. The operator now moves the arm K into the position shown in full lines in Figs. 1 and 2, whereby the apertures E and G come over each other, so that the substance in the receptacle A passes through the apertures E and G and the spouts or funnels N into the bottles or receptacles Q. As the latter are of the same size, they fill up at the same time, so that the operator only watches the filling of one bottle or receptacle Q, and when this is done he moves the arm to the position shown in dotted lines in Fig. 2, so as to turn the plate F, and thereby cuts off the apertures G from the apertures E. All the bottles or receptacles are thus filled at the same time.

The plate D may be made to form the bottom of the receptacle A.

All leakage is prevented, as the adhesion between the ground contact-surfaces of the plates D and F (which adhesion is increased by the weight of the substance in the receptacle) is sufficient to prevent the substance from entering between the said plates.

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

In a filling apparatus, the receptacle A, the plate D, having apertures E, and the funnels or spouts N, in combination with the plate F, having apertures G, the bolt H, the nut J, and the arm K, moving between the stop-pins M, substantially as shown and described.

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Witnesses:

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