G. B. SMITH.

Measuring Funnel.

No. 211,352. Patented Jan. 14, 1879.

Fig. 1.

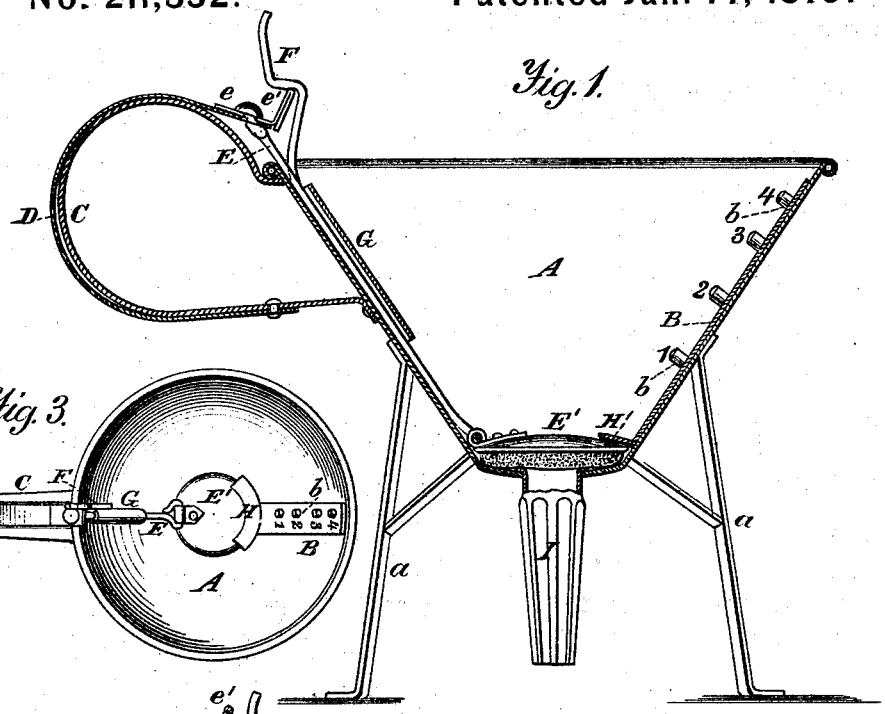


Fig. 3.

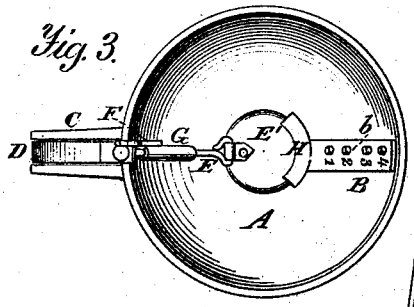
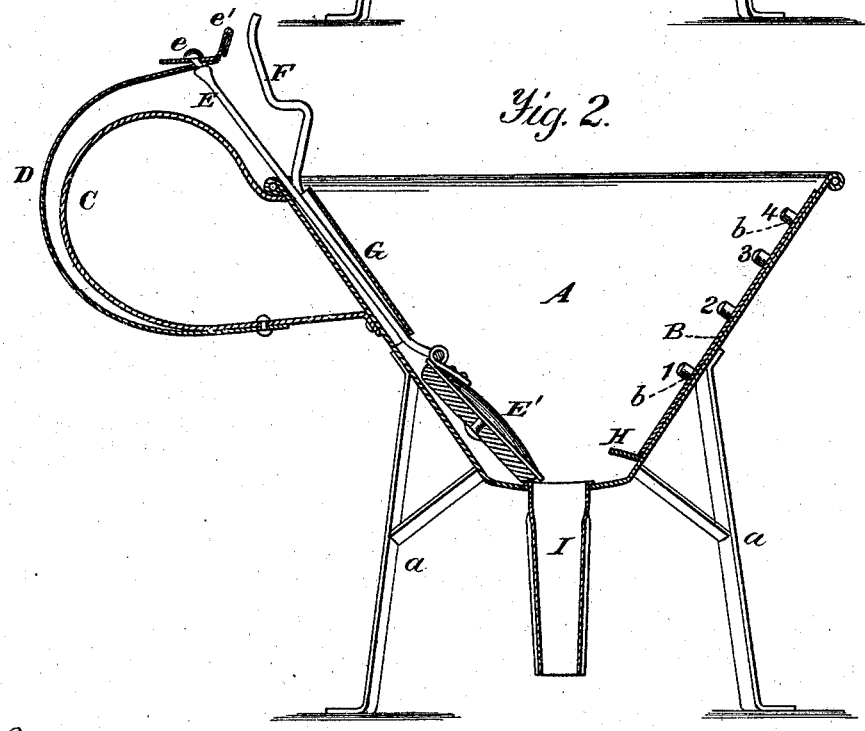


Fig. 2.



Witnesses.

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UNITED STATES PATENT OFFICE.

GILLOUS B. SMITH, OF BATH, NEW YORK.

IMPROVEMENT IN MEASURING-FUNNELS.

Specification forming part of Letters Patent No. **211,352**, dated January 14, 1879; application filed November 30, 1878.

To all whom it may concern:

Be it known that I, GILLOUS B. SMITH, of Bath, in the county of Steuben and State of New York, have invented certain new and useful Improvements in Measuring-Funnels; and I do hereby declare that the following is a full, clear, and exact description thereof, which 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, and in which—

Figure 1 is a central vertical section of my improved measuring-funnel, showing the mouth of the eduction-tube closed by the valve. Fig. 2 is a similar view, showing the valve removed from the mouth of the eduction-tube; and Fig. 3 is a top view of my improved funnel.

Corresponding parts in the several figures are denoted by similar letters of reference.

My invention appertains to certain improvements in measuring-funnels; and it consists of a spring attached at one end to the handle of the funnel, and following the curve of said handle; secondly, of a spring attached at one end to the handle of the funnel, and following the curve of said handle, having a slot, which receives the upper end of the valve-stem; and, thirdly, of a concaved collar, secured to the inside of the funnel near the mouth of the eduction-tube, substantially as hereinafter more fully described and claimed.

The object of my invention is to provide the trade with a cheap and efficient measuring-funnel, the valve of which can be easily and readily controlled by the operator.

In the annexed drawings, A marks a suitable frame supported upon legs *a*, and provided with a graduated scale or bar, B, with or without lugs *b*. Firmly secured to the handle C, preferably to the under part, is a spring, D, which extends upwardly and follows the curve of said handle, its free end being provided with a slot, which receives the upper end of the valve-stem E.

Attached to the top of the valve-stem E is a thumb-piece, *e*, having a bent portion, *e'*, which catches under the spring-hook F, secured to the funnel. The valve-stem E extends down into the funnel A under a confining-plate, G, and is hinged to the valve E', preferably made of a rubber base, surmounted by a metal cap.

Secured to the inside of the funnel near its bottom, and on the side opposite to the confining-plate G, is a concave collar, H, which, when the valve is forced down over the eduction-tube I, holds the valve upon its seat and completely closes the said eduction-tube. The eduction-tube I is fluted, as clearly shown in Fig. 1, to allow the escape of air from the jug or other receptacle as it is being filled from the funnel.

When it is desired to close the mouth of the eduction-tube I in order to fill or refill the funnel, press the valve-stem down by means of the thumb, pressing on the thumb-piece *e* until the projection *e'* is caught and held by the spring-hook F, when the valve E' will be pressed and held tightly over the mouth of the eduction-tube I by the concaved collar H and said spring-hook F, as clearly shown in Fig. 1.

To allow the contents to escape from the funnel, press with the thumb on the spring-hook F, when the projection *e'* will be released from said spring-hook, and the spring D will draw the valve from over the eduction-tube.

Having thus described my invention, what I claim, and desire to secure by Letters Patent, is—

1. In a measuring-funnel, the slotted spring D, secured to the outside of the handle and extending inwardly, in combination with a valve-stem and a spring-hook, substantially as and for the purpose set forth.

2. In a measuring-funnel, the slotted spring D, secured to the outside of the handle and extending inwardly, provided with a thumb-piece, *e*, and projection *e'*, in combination with a valve-stem and a spring-hook, substantially as and for the purpose set forth.

3. In combination with a funnel, A, provided with the concaved collar H, plate G, and spring-hook F, of the hinged valve E', valve-

stem E, bent projection *e'*, spring D, and handle C, substantially as and for the purpose set forth.

4. The graduated measuring-funnel supported upon legs, and having the concaved collar H, hinged-valve E', valve-stem E, plate G, spring-hook F, thumb-piece *e*, spring D, and handle C, substantially as shown and described.

In testimony that I claim the foregoing as my own I hereunto affix my signature in presence of two witnesses.

GILLOUS B. SMITH.

Witnesses:
P. S. DONAHE,
WILLIAM PAGE.