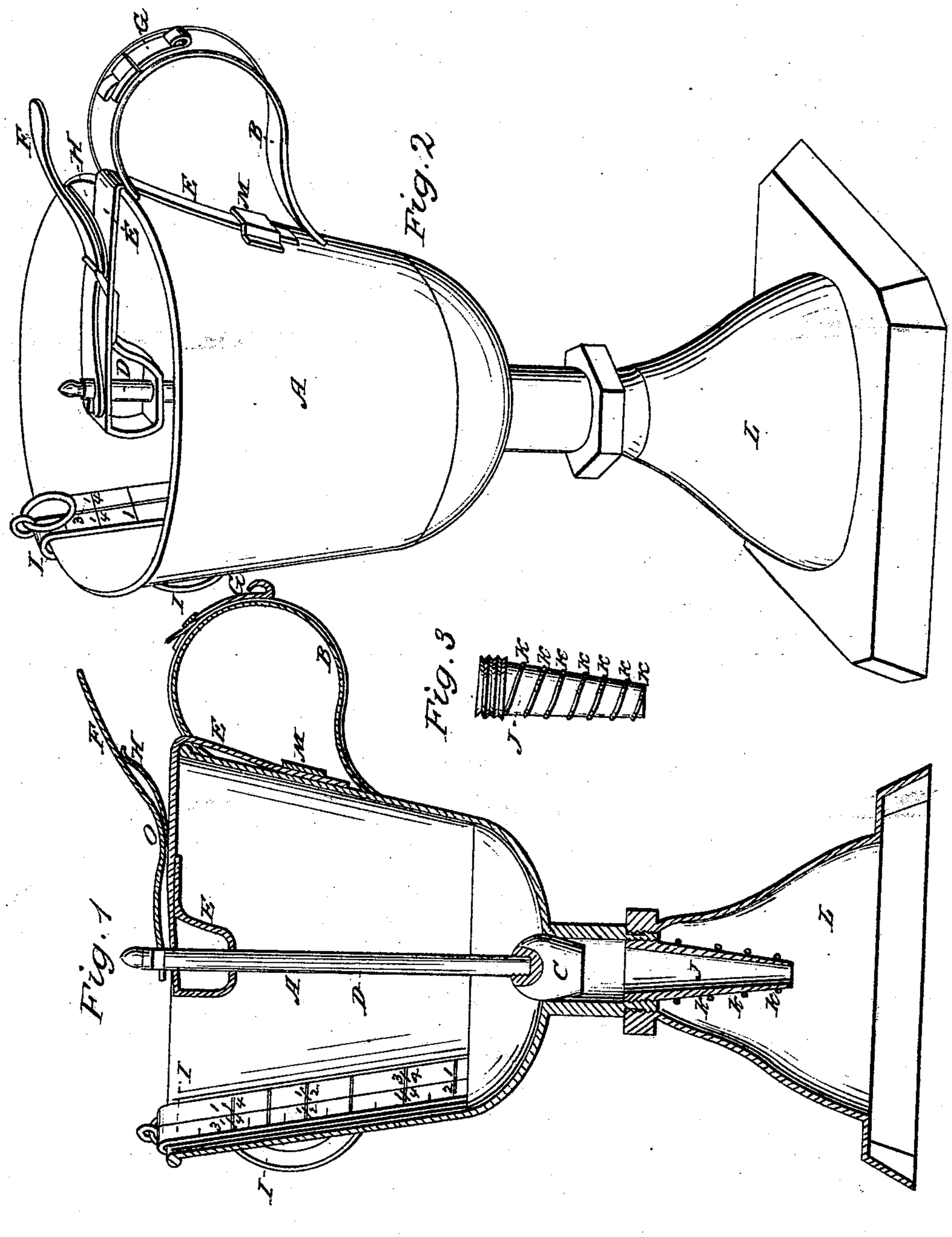
G. W. McCANN.

Measuring Funnel.

No. 62,866. Patented March 12, 1867.



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United States Patent Office.

GEORGE W. McCANN, OF SPRINGFIELD, OHIO.

Letters Patent No. 62,866, *dated March* 12, 1867.

IMPROVEMENT IN MEASURING-FUNNELS.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, GEORGE W. McCANN, of Springfield, in the county of Clark, and State of Ohio, have invented a new and useful improvement in Funnel Measures; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawings, in which—

Figure 1 is a vertical sectional elevation of my funnel measure.

Figure 2 is a perspective view of the same.

Figure 3 is an elevation of one of the nozzles, showing the spiral wire around it.

My invention consists in providing a graduated funnel with a removable base, so that the same article may be used as an ordinary measure or as a funnel. It also consists in winding a wire spirally about the nozzle of the funnel, so that when inserted in the neck of a bottle or jug an air space is left on all sides of it. It further consists in the special devices used to render these ideas operative.

That others may understand the construction and operation of my funnel measure, I will particularly describe it.

The cup of the funnel, A, may be in the form represented, or in the ordinary conical form of a funnel, as this is immaterial. It should be provided with a handle, B, to render its use more convenient. The valve C is fitted to the bottom, and is placed on the stem D, which passes, at its upper end, through the guide E, and is raised or lowered by the thumb-lever F. When it is desired to use this instrument as an ordinary funnel, the valve C is raised by pressing down the outer end of the lever F, and it may be retained in that position by the latch G, which slides endways on the upper side of the handle B, and may be slipped over the end of the lever F, to keep it depressed and the valve raised. When the lever F is released, the spring H forces the lever F upward, and brings the valve to its seat; or the valve C, stem D, and guide E may be entirely removed. The scale I is removable, and may only be attached when it is desired to use the implement as a measure. The graduated portion of the scale lies against the inner surface of the vessel, while the other portion, which is bent over the rim of the cup, curves outward and downward, forming a handle, and finally rests against the outer surface of the cup with a spring pressure, so that it will remain at any point where placed. A ring is placed at the upper end of the scale, for convenience in hanging it up when not in use. The nozzle J screws into the bottom of the cup, and may be easily removed for the purpose of replacing it with a larger or smaller nozzle, as may be desirable. The wire K, (see fig. 3,) is wound spirally around the outside of the nozzle from point to base, so that as the nozzle is inserted into the neck of a bottle or other vessel, the wire will be interposed on all sides between the nozzle and vessel, and a free escape of air will be permitted. The base L is also removable by unscrewing it from the bottom of the cup. This will not often be necessary, as it will only be required when the neck of the vessel to be filled will not permit the nozzle to enter without removing the base L. By this union of devices I produce a very useful improvement, capable of being used as a simple vessel for holding liquids, or transferring them from one vessel to another, a measure of quantity, and a funnel. The scale may be attached only when its services are required, and as it requires no grooves or gains to keep it in place, when removed a perfectly plain surface remains, which may be cleaned without difficulty. The scale as presented in this application may also be placed at any part of the side of the cup where the position of the light or convenience may make it most desirable. When the implement is to be cleansed the guide-bridge E may be removed, taking with it the valve, valve-stem, and thumb-lever, so that the interior surface of the vessel will be left entirely clear. The bridge E is retained in place by slipping the outer end, (which is bent downward so as to conform to the shape of the cup A,) through a hole in the base of the handle B, and under a loop, M, soldered to the outer side of the cup A, as shown in figs. 1 and 2.

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

1. The scale I, in combination with the cup A of a funnel, when said scale is constructed substantially as described, and retained in place by a spring pressure against the side of the cup.

2. The guide-bridge E, in combination with the valve C, stem D, and cup A, of a funnel, when constructed so as to be readily removable, substantially as and for the purpose set forth.

3. The removable base L, in combination with the cup and nozzle of a funnel measure, substantially as and for the purpose set forth.

4. The nozzle J of a funnel, constructed with the wire K wound spirally around its outer surface, for the purpose of permitting the air to pass upward by the side of the nozzle, as set forth.

5. The combined cup, funnel, and measure, constructed and arranged as set forth.

GEO. W. McCANN.

Witnesses:

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