

(No Model.)

H. VAN KAMMEN.

FUNNEL.

No. 343,871.

Patented June 15, 1886.

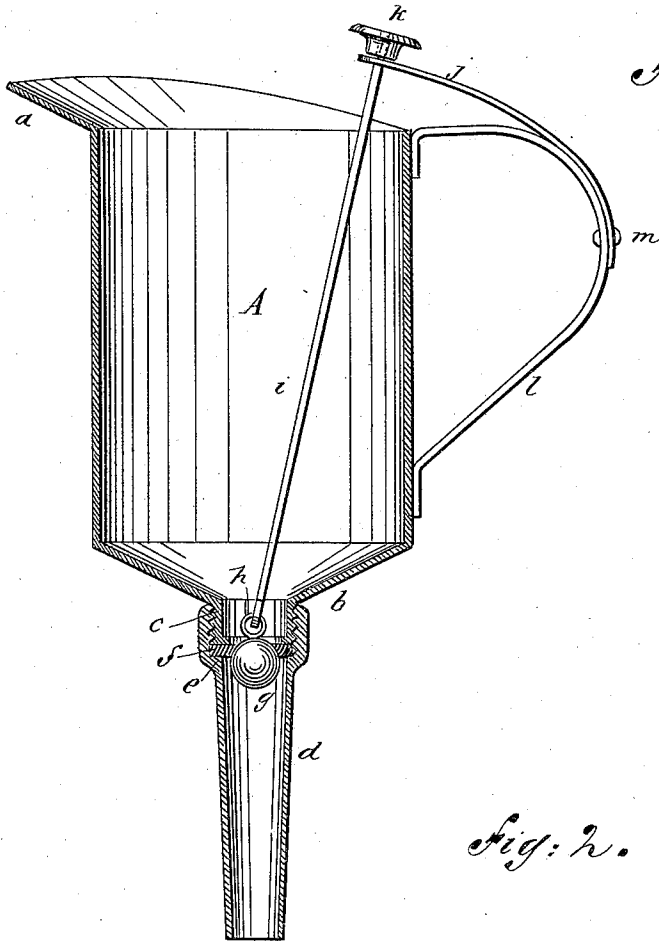
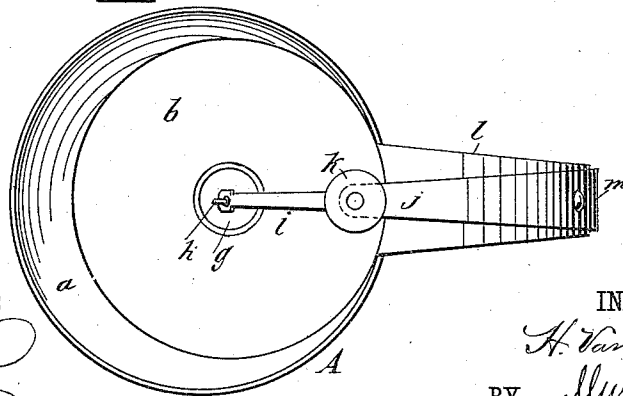


Fig: 1.

Fig: 2.



WITNESSES:

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FUNNEL.

SPECIFICATION forming part of Letters Patent No. 343,871, dated June 15, 1886.

Application filed January 20, 1886. Serial No. 189,223. (No model.)

To all whom it may concern:

Be it known that I, HARMANNUS VAN KAMMEN, of Grandville, in the county of Kent and State of Michigan, have invented a new and useful Improvement in Combined Liquid Measures and Funnels, of which the following is a specification, reference being had to the annexed drawings, forming a part thereof, in which—

Figure 1 is a vertical transverse section of my improved liquid measure and funnel. Fig. 2 is a plan view.

Similar letters of reference indicate corresponding parts in both figures of the drawings.

The object of my invention is to provide a measure for liquids, with means for discharging its contents directly into a bottle, jug, or other narrow-mouthed vessel without the employment of a separate funnel.

My invention consists in a liquid-measure provided with a conical bottom having in the center thereof a screw-threaded nipple, an internally-threaded tapering tube received on the nipple, a yielding valve-seat placed between the tube and the nipple, a ball-valve seated on the yielding seat and communicating by a rod with a valve-closing spring attached to the handle of the measure.

The measure A in the present case is of cylindrical form, having the flaring lip *a* at the top, and provided with a conical centrally-apertured bottom, *b*, having a screw-threaded nipple, *c*, attached thereto and communicating with the aperture. A tapering tube, *d*, which is threaded internally at its upper end, is screwed on the nipple *c*, and between the shoulder *e* formed in the tube and the end of the nipple *c* is placed a valve-seat, *f*, formed of yielding material, such as leather or rubber. Below the valve-seat *f* is placed a ball-valve, *g*, having an eye, *h*, attached to one side thereof, which projects through the valve-seat into the nipple, and is connected to the rod *i*, which extends upward above the top of the measure A and through one end of a flat spring, *j*, and is provided with a flat head, *k*.

The spring *j* is curved over the handle *l* of the measure, and secured thereto by a rivet, *m*, or by soldering, or both. The spring *j* tends to raise the rod *i* and draw the ball-valve *g* against the valve-seat *f*, and thus prevent the escape of the contents of the measure through the nipple *c* and tube *d*.

The measure A is filled in the usual way, and when it is desired to discharge its contents into a bottle, jug, or other narrow-mouthed vessel the tapering tube *d* is inserted in the mouth of the vessel, and the flat head *k* is forced downward by the thumb against the pressure of the spring *j*, thus pushing the valve *g* away from its seat and allowing the contents of the measure to flow through the tapering tube into the vessel.

By placing the valve below the valve-seat the valve is washed whenever the measure is emptied, so that the valve is always clean and in condition to close tight.

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

1. An improved measure consisting of the vessel A, provided with the handle *l*, the conical apertured bottom *b*, and nipple *c*, having a valve-seat, *f*, the spring *j*, secured to the handle, the rod *i*, having its upper end secured to the spring, and the ball-valve *g*, attached to the lower end of the said rod, substantially as herein shown and described.

2. As an improved article of manufacture, the measure A, having the centrally-apertured conical bottom *b*, an externally-threaded nipple, *c*, attached thereto, the internally-threaded tapering tube *d*, having the shoulder *e*, the yielding valve-seat *f*, the ball-valve *g*, adapted to the valve-seat, the rod *i*, connected with the valve and provided with a flat head, *k*, and the spring *j*, attached to the handle of the measure and arranged to close the valve *g*, substantially as herein shown and described.

HARMANNUS VAN KAMMEN.

Witnesses:

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