

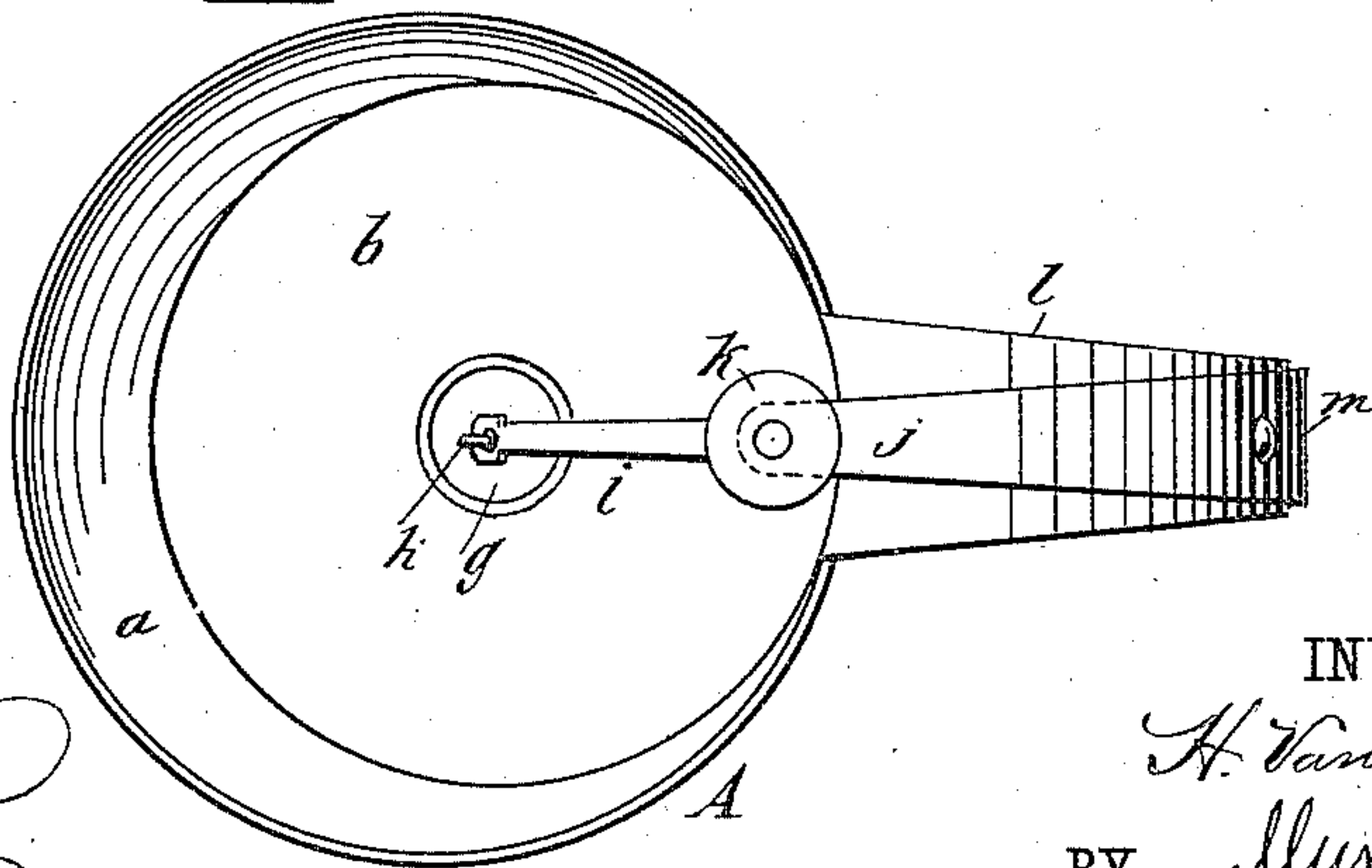
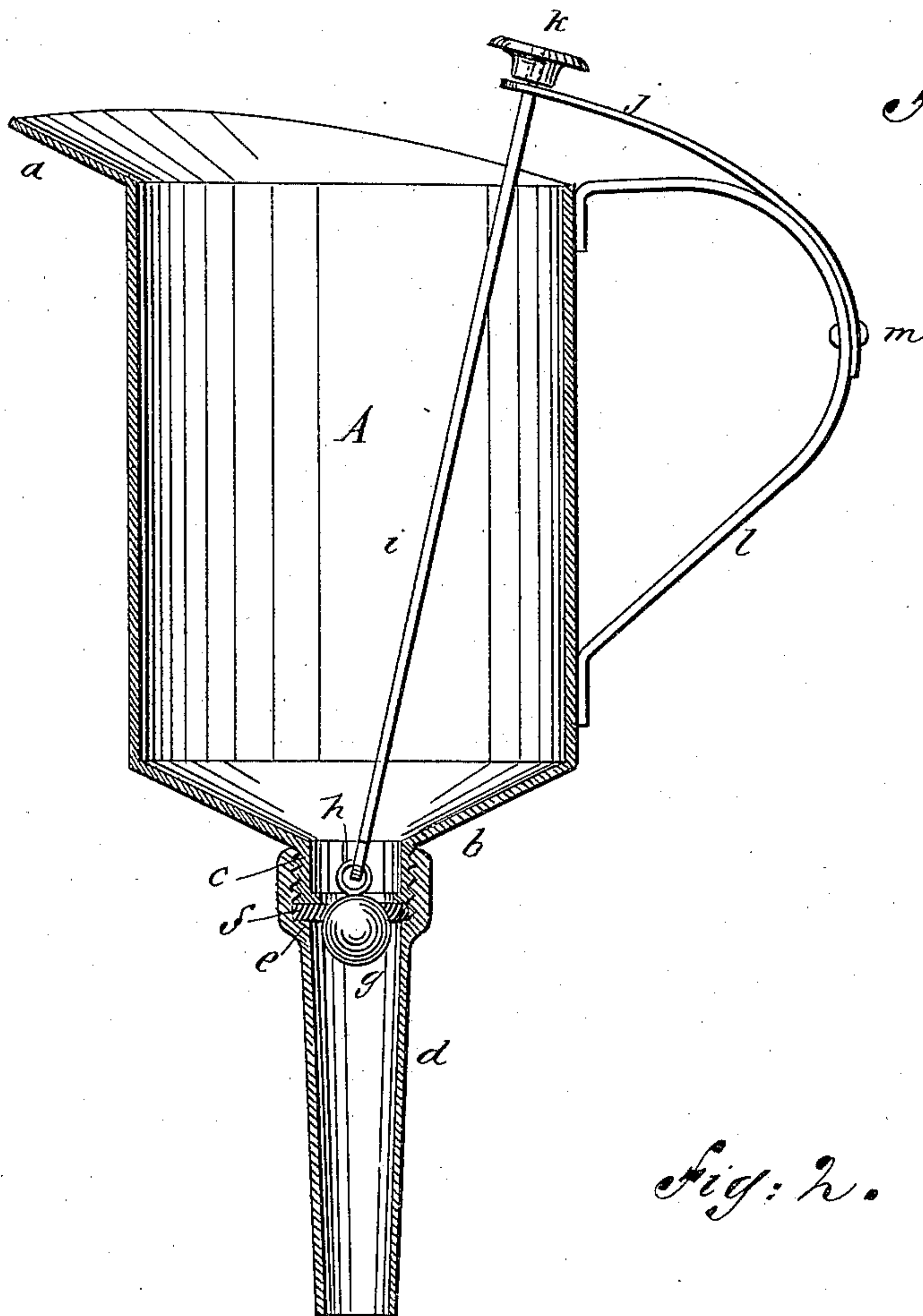
(No Model.)

H. VAN KAMMEN.

FUNNEL.

No. 343,871.

Patented June 15, 1886.



WITNESSES:

Chas. Nida
C. Sedgwick

INVENTOR:

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UNITED STATES PATENT OFFICE.

HARMANNUS VAN KAMMEN, OF GRANDVILLE, MICHIGAN.

FUNNEL.

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

Application filed January 20, 1886. Serial No. 189,228. (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
5 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—

10 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.
15

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.
20

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
25 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.

30 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*,
35 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
40 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*.
45

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
50 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, 55 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
60 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 65 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
70 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
75 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, 80 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
85 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. 90

HARMANNUS VAN KAMMEN.

Witnesses:

W. H. VAN LEEUWEN,
H. BOUMA.