G. W. ALDRICH.

Liquid-Measure.

No. 167,601. Patented Sept. 14, 1875.

Fig. 1

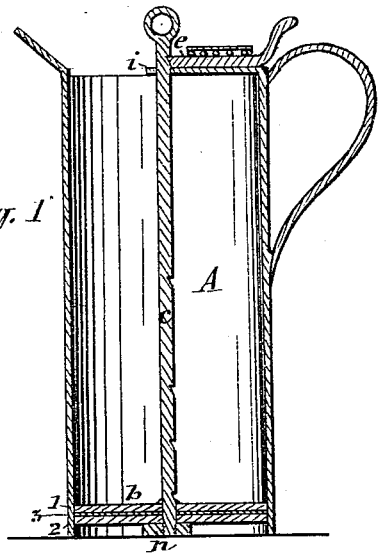


Fig. 2

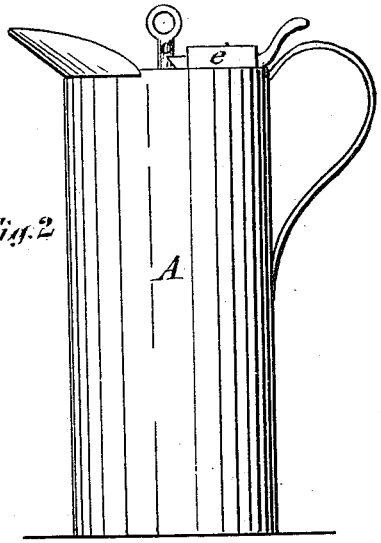
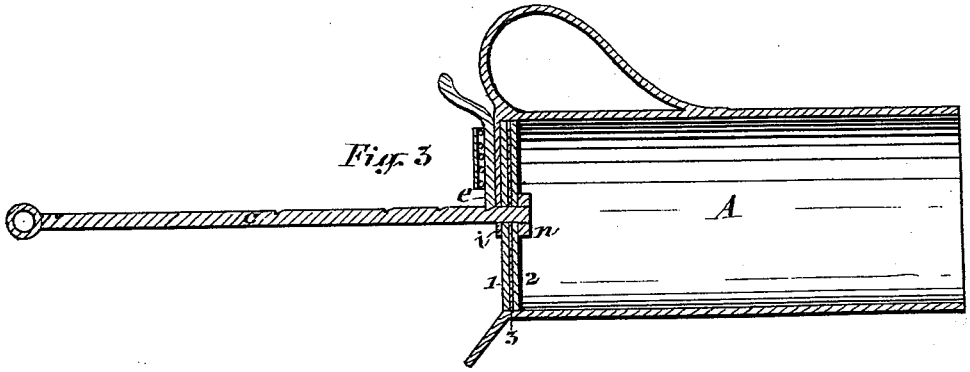


Fig. 3



Witnesses

Chas. H. Hey

C. L. Pharis

Inventor:

George W. Aldrich

per E. Laass Attorney

UNITED STATES PATENT OFFICE.

GEORGE W. ALDRICH, OF SYRACUSE, ASSIGNOR OF ONE-HALF HIS RIGHT TO ISAAC R. PHARIS, OF GEDDES, NEW YORK.

IMPROVEMENT IN LIQUID-MEASURES.

Specification forming part of Letters Patent No. **167,601**, dated September 14, 1875; application filed December 30, 1874.

To all whom it may concern:

Be it known that I, GEORGE WASHINGTON ALDRICH, of Syracuse, in the county of Onondaga, in the State of New York, have invented a new and useful Improvement in Liquid-Measures, of which the following, taken in connection with the accompanying drawing, is a full, clear, and exact description.

The object of this invention is to obtain a measure for molasses, oil, and other thick and adhesive liquids, which shall be capable of being quickly emptied, and at the same time cleansed from any substance liable to adhere to the inside of the measure; and it consists in making the measure cylindric in form, having both ends open, and connecting therewith a loose bottom fitting closely the inside of said cylinder, and arranged so that it can be drawn to the top, and thereby empty and clean the measure.

It is well known that molasses, oil, and other thick and adhesive substances are slow and difficult to empty from a measure, especially at a cold temperature, and that it is difficult to keep them clean. I overcome both inconveniences by forcing the contents out of the measure, and at the same time cleansing the same by means of drawing a loose bottom to the top.

In the drawing, Figure 1 is a sectional view of my invention, with the loose bottom set to the full capacity of the measure; Fig. 2, an outside view of same; Fig. 3, a sectional view, when in position for emptying.

A is the cylindric body of the measure; *b*, the loose bottom, consisting of the two plates 1 and 2, and the packing marked 3 between them. The plate 1 is rigidly attached to the rod *c*, which extends through the packing 3 and plate 2, and is provided with nut *n* at the lower end, which tightens the packing.

When it is necessary to repair or renew the packing the nut *n* is taken off and the plate 2 removed. The rod *c* extends far enough above the top of the measure to admit of a handle on the end, whereby it is forced in and out, and is braced at the top by plate *i*. The rod can be graduated for any proper depth to obtain different quantities, so that one can will answer a number of measures.

e is a spring-bolt, which holds the rod C in position.

In order to keep flies and dirt out of the measure the bottom should be kept at the top, as shown in Fig. 3, and set up, in which case the bottom *b* forms a tight cover. The body of the measure need not necessarily be cylindrical. Any shape with straight and parallel sides will answer the purpose.

It will be seen that by my improvements I dispense with the extra bottom and top plates, and therefore reduce the cost of manufacturing the measure; and by my improved combination and arrangement of the piston-rod with this measure I save the extra foot or extension at the bottom of the measure, which is required in case the rod extends downward, as in T. Rogers's device.

What I claim as new, and desire to secure by Letters Patent, is—

The improved liquid-measure herein described, consisting of the cylindric body A, having both ends open, and the loose bottom *b*, having its rod *c* extending upward for the purpose of drawing the liquid to the top, constructed and operating substantially as shown and specified.

In testimony whereof I have signed my name and affixed my seal in the presence of two attesting witnesses, at Syracuse, in the county of Onondaga and State of New York, this 22d day of December, 1874.

GEORGE WASHINGTON ALDRICH. [L. S.]

Witnesses:

CHAS. H. HEY,

CHAS. S. PHARIS.