W. B. SHERMAN.

Liquid-Measuring Device.

No. 215,300. Patented May 13, 1879.

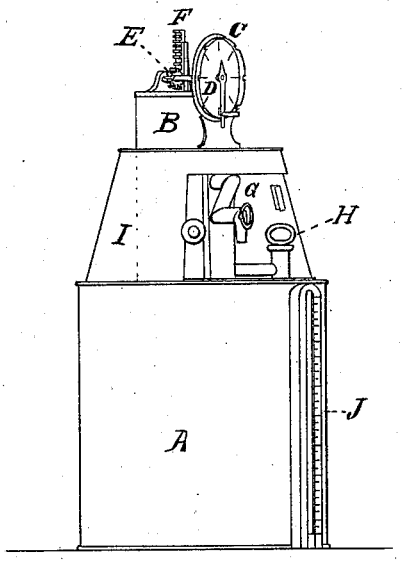

Fig. 1.

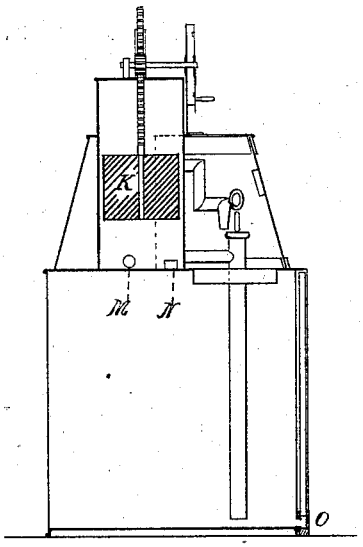

Fig. 2.

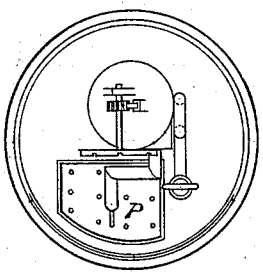

Fig. 3.

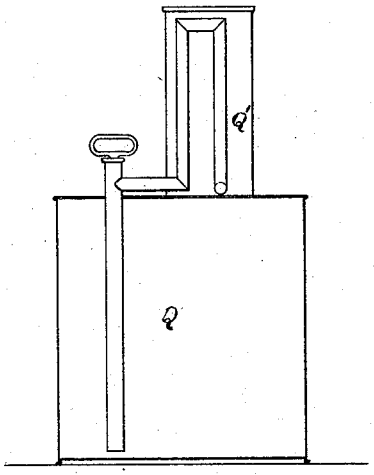

Fig. 4.

Witnesses.

J. W. Pride

Miller B. Allen

Inventor.

Wardell B. Sherman

Sennett & Sennett, Attys.

UNITED STATES PATENT OFFICE.

WARDELL B. SHERMAN, OF UTICA, NEW YORK, ASSIGNOR OF ONE-HALF HIS RIGHT TO J. WARNER PRIDE, OF SAME PLACE.

IMPROVEMENT IN LIQUID MEASURING DEVICES.

Specification forming part of Letters Patent No. **215,300**, dated May 13, 1879; application filed December 6, 1878.

To all whom it may concern:

Be it known that I, WARDELL B. SHERMAN, of Utica, in the county of Oneida and State of New York, have invented certain new and useful Improvements in Self-Measuring Devices; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it pertains to make and use it, reference being had to the accompanying drawings, which form part of this specification.

My invention consists of the parts and combination of parts hereinafter described and claimed.

Figure 1 represents a perspective view of my improved measuring device. Fig. 2 represents a cross-vertical section. Fig. 3 represents a top view, and Fig. 4 represents the position of the force-pump.

In Fig. 1, A represents a tank or reservoir, which may hold any number of gallons of fluid; B, the measuring-vessel, which contains the plunger; C, the dial, which is divided into eight sections, each section representing one pint; D, the crank, which sits into the notches around the dial, and also turns the cog-wheel E, which rolls up and down the notched rack F of the plunger. G is a conductor, with a funnel-shaped end, which can be raised or lowered to reach into any size can or jug standing on the drip-pan, avoiding the use of funnels. H is a force-pump, to force the fluid from the tank or reservoir into the vessel B. I is a case, with sliding doors, &c.; and J is a sealed glass tube extending down the side of the tank or reservoir, to show the quantity of fluid within.

In Fig. 2, K is the plunger within the vessel B. M is the orifice through which the pump forces the fluid from the tank A into the vessel B. N is the outlet to the conductor G and the can or jug, and O shows the connection of the sealed glass tube to the reservoir A.

In Fig. 3, P is a drip-pan, into which may be set the can or jug under the conductor G.

In Fig. 4, Q Q′ is the force-pump, showing its shape and position in relation to the vessel and reservoir.

To operate this device, draw the plunger K up to the top of the vessel B by turning the crank D. Then with the force-pump fill the vessel B with fluid until it runs out through the conductor G. Place the index at the top notch of the dial. Then, if you wish to draw from the vessel one pint, turn the index to the right one notch on the dial; if a quart, two notches; if a gallon, make one complete revolution of the index, and so repeat for any number of gallons, according to the size of the vessel.

The vessel may be made of any suitable material, and of any size or shape.

The plunger may be made of any suitable material, and of any form, and of a size to displace a given quantity of fluid in the vessel.

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

1. In a measuring device, the combination, with an upright rack, the lower extremity of which is provided with a plunger, and a single pinion directly gearing therewith, of a crank secured to the arbor of said pinion and a vertical registering-disk provided with a forwardly-projecting rim having notches, in which latter the free end of said crank is adapted to have lateral engagement, substantially as set forth.

2. In a measuring device, the combination, with the upright reservoir, measuring-chamber, and intermediate pump-connection, of a plunger vertically working in the measuring-chamber, a pinion having rack-engagement with said plunger-rod, a crank formed on the arbor of said pinion and a registering-disk having notches cut in the right-angular rim formed thereon, substantially as set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 3d day of December, 1878.

WARDELL B. SHERMAN.

Witnesses:

J. W. PRIDE,

ORVILLE P. ALLEN.