

A. S. LIBBY.
MEASURING-FAUCET.

No. 177,528.

Patented May 16, 1876.

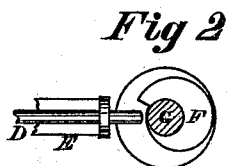
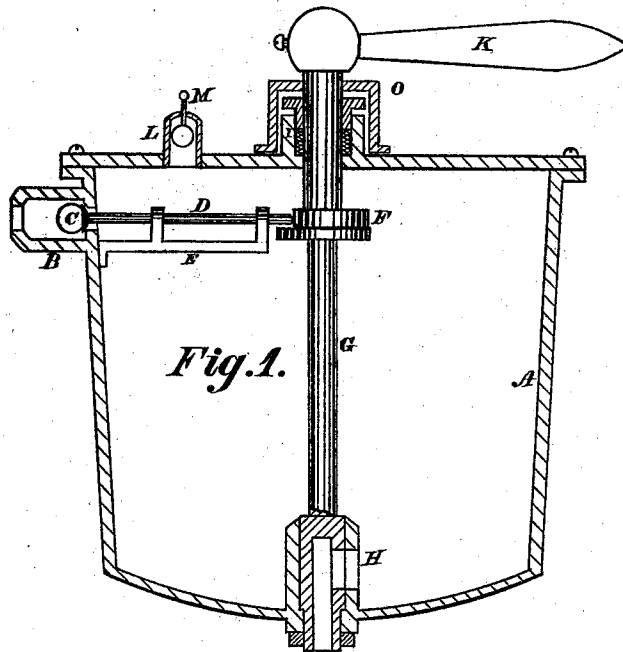
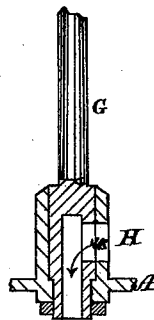


Fig. 3.



Witnesses;
Wm. T. Kimball
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Inventor;
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Per Charles Moore
Att.

UNITED STATES PATENT OFFICE.

ASA S. LIBBY, OF LAWRENCE, MASSACHUSETTS, ASSIGNOR OF ONE-THIRD
HIS RIGHT TO M. V. B. PAIGE, OF SAME PLACE.

IMPROVEMENT IN MEASURING-FAUCETS.

Specification forming part of Letters Patent No. **177,528**, dated May 16, 1876; application filed
February 10, 1876.

To all whom it may concern:

Be it known that I, ASA S. LIBBY, of Lawrence, in the county of Essex and Commonwealth of Massachusetts, have invented a Measuring-Faucet or Liquid-Meter.

The object of my invention is to construct a faucet or meter which shall measure and register such measurement of liquid as it is passed through the same, by means of a measuring-tank having at its inlet a ball-and-socket valve, opened by a cam and rod, the cam being attached to a shaft extending down to a faucet placed in the bottom of a measuring-tank, and so arranged that when one is opened the other is closed, and having a cam attached to the shaft on the outside and above the top, which operates the registering mechanism; and I do declare that the following is such a full, clear, and exact description thereof that any person skilled in the art to which it appertains can construct and use the same, reference being had to the accompanying drawings, and the letters of reference marked thereon, for a more exact description thereof, like letters indicating the same parts in each of the figures, of which—

Figure 1 represents a sectional view of my invention, showing the inflowing pipe, the ball-and-socket valve, the discharge-faucet, cam, winch, stuffing-box, registering-cam, and vent; Fig. 2, a cam in a position when closing the ball-and-socket valve, the dotted lines showing its position when open; and Fig. 3, a faucet in the bottom of the measuring-tank, the arrow showing the direction of the flow of liquid.

A is a measuring-tank, designed to receive liquid through B and measure the same; B, a pipe containing a ball-and-socket valve, and designed to receive liquid desired to be measured; C, a rubber ball, designed to act as a valve within B, being held by pressure of water to its seat; D, a rod, designed to force the ball C from its seat and allow liquid to flow into A; E, a bracket, designed to hold the rod D; F, a cam, working against D, and designed to force the same against C; G, a spindle, to which are attached the cams F and

O, the winch K, and discharge-faucet H, and designed to operate the recording mechanism and open and close alternately the valve C and faucet H; H, a discharge-faucet, designed to draw liquid from the tank A after the same has been filled through B and recorded by O; I, a packing-box, designed to pack the shaft or spindle G; K, a winch or lever, designed to operate the mechanism connected therewith; L, a vent, designed to contain a valve to allow atmosphere to be expelled from A when being filled, and so constructed as to close when A is filled; M, a float-valve within L, and designed to close the vent when the tank is filled, and to allow air to fill the vacuum, caused by drawing liquid from A; O, a cam, designed to operate a clock or registering apparatus.

To use my said invention, (the apparatus being applied to a barrel, tank, or service-pipe,) first turn the lever until it forces the valve C open, at the same time registering through O, when liquid will continue to flow through B until A is filled. The tank being filled and registered, turn the lever back, when the liquid will flow through H. By turning the winch still farther back, both C and H will be closed.

Having thus described my said invention, I claim as new, and desire to secure by Letters Patent, the following, to wit:

1. In a registering-faucet or liquid-meter, as herein described, the combination of the tank A with the pipe B, its ball-and-socket valve C, the bracket E, and rod D, in a manner substantially as and for the purposes herein described and set forth.

2. The combination of the tank A, the faucet H, the spindle G, the cam F, the rod D, the bracket E, the ball and socket C, the pipe B, the vent M, the cam O, and the lever K, each with each, in a manner substantially as and for the purpose hereinafter described and set forth.

ASA S. LIBBY. [L. S.]

Witnesses:

JOSEPH L. BONNEY,
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