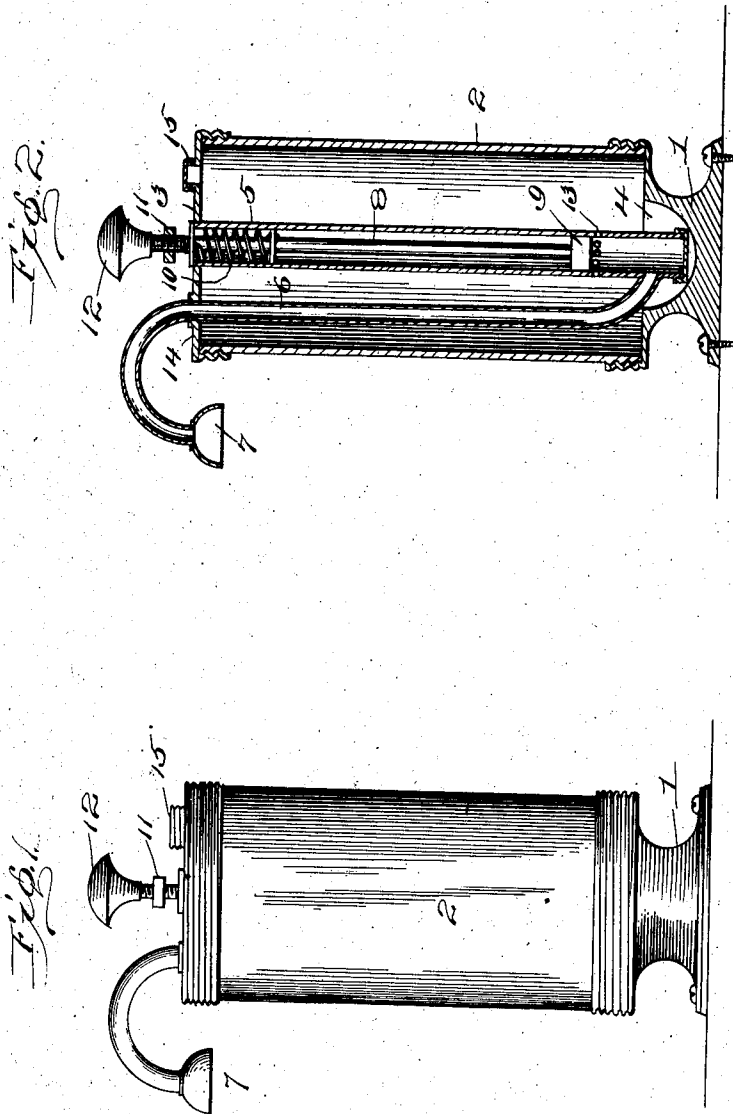


No. 839,131.

PATENTED DEC. 25, 1906.

S. GOULD.
SOAP DISPENSING APPARATUS.
APPLICATION FILED DEC. 2, 1905.



Witnesses
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UNITED STATES PATENT OFFICE.

SANFORD GOULD, OF NEW YORK, N. Y.

SOAP-DISPENSING APPARATUS.

No. 839,131.

Specification of Letters Patent.

Patented Dec. 25, 1906.

Application filed December 2, 1905. Serial No. 290,025.

To all whom it may concern:

Be it known that I, SANFORD GOULD, a citizen of the United States, residing at New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Soap-Dispensing Apparatus; 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 appertains to make and use the same.

This invention relates to devices for dispensing liquid, and more particularly to devices for dispensing liquid soap; and it consists of a receptacle containing the liquid to be dispensed and means for dispensing the same in measured quantities.

It further consists in devices for dispensing liquid soap in such manner as not to spray or splash the same when discharged.

It also consists in a device having a cylinder and reciprocating plunger therein, so positioned as to dispense practically all the liquid contained in the receptacle.

The invention further comprises certain novel constructions, combinations, and arrangements of parts, as will be hereinafter fully described and claimed.

In the accompanying drawings, Figure 1 is a side elevation of my improved liquid-soap-dispensing receptacle. Fig. 2 is a section through my improved liquid-soap dispenser.

My improved soap-dispenser is preferably made with a metal base 1, a cylindrical body portion 2, being preferably made of glass, and a top or lid 3, carrying the dispensing mechanism. The body portion 2 is preferably made with screw-threads at the top and bottom for securing the same in place. The base is preferably made of metal and is formed with a depression or well 4, accommodating the lower end of the dispensing mechanism. The device may be attached at any suitable place by means of suitable screws fastened through the base portion. Secured to the top or head is a cylinder 5, and secured rigidly thereto, near the lower end thereof, is a discharge-tube 6, carrying on its end a bell-shaped nozzle 7. The cylinder 5 has a removable cap closing the bottom, through which the cylinder is inserted. Within the cylinder 5 is a piston-rod 8, carrying a piston-head 9, preferably of metal, without any backing. This piston-head fits snugly, but not tightly, within the cylinder 5 and is held in operative position by a spring

10 through the piston-rod 8. The piston-rod 8 extends beyond the top of the cylinder and carries an adjusting-nut 11 for adjusting the amount of reciprocation of the piston-head 9. On the outer end of the rod 8 is fastened any suitable knob 12, which is depressed when desired to secure a quantity of liquid contained in the receptacle. In the cylinder a short distance from the bottom is located a number of perforations 13, through which the liquid enters by gravity and fills the cylinder 5 below the piston-head 9 and partly fills the discharge-tube 6. A suitable vent, as 14, is made in the top for permitting it to fill the space created by the liquid discharged from the receptacle.

As will be evident, the dispensing mechanism may be removed from the receptacle and placed in any other receptacle or in another receptacle similar to the one disclosed. As will be observed, the receptacle may be filled through a suitable opening 15, or the receptacle may be taken apart entirely and cleaned or repaired with ease without in any way injuring the same. The body portion 2 of the receptacle is preferably made of glass, so that as the liquid is used from the receptacle the same will be observed and the receptacle filled again, as may be desired.

In operation the device is filled with liquid soap or other liquid that it is desired to dispense in small quantities, the liquid filling the lower part of the cylinder and part of the discharge-nozzle. In order to secure a quantity of liquid, it is only necessary to press down upon the knob 12, which will force the piston 9 downward and discharge the quantity of liquid through the discharge-pipe 6 and out through the nozzle 7. When the hand is removed from the knob 12, the spring 10 will automatically retract the piston-head until the same occupies a position slightly above the openings 13. When it has reached this position, the liquid will enter the openings 13 by gravity and again fill the lower part of the chamber and discharge-pipe 6 until the same has reached the level of the liquid in the receptacle. The nut 11 is used to regulate the quantity of liquid dispensed, and when it is desirable to dispense a larger or smaller amount of liquid the nut either screws up or down, as the case may be, and in this way the quantity of liquid dispensed is varied to suit.

In dispensing liquid soap for use upon the hand it is usual to place the hand against the

bell-shaped nozzle, and by reason of the palm of the hand fitting the nozzle snugly the liquid is delivered without splashing.

What I claim is—

- 5 The combination with a receptacle, of a dispensing mechanism removably secured to one end of said receptacle, comprising a cylinder provided with a plurality of apertures formed therein near the end thereof, a reciprocating plunger positioned in said cylinder, a
10 spring for normally holding said plunger in its raised position, means positioned on said plunger for regulating the throw thereof, a

tube connected to the lower end of said cylinder and extending through the upper end of said receptacle, and a bell-shaped member secured to the outer end of said tube for directing the discharge from said cylinder to the atmosphere.

In testimony whereof I affix my signature 20 in presence of two witnesses.

SANFORD GOULD.

Witnesses:

EDWARD H. RYAN,
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