No. 798,163. PATENTED AUG. 29, 1905.

W. T. CARTER.

SOAP DISPENSER.

APPLICATION FILED NOV. 11, 1904.

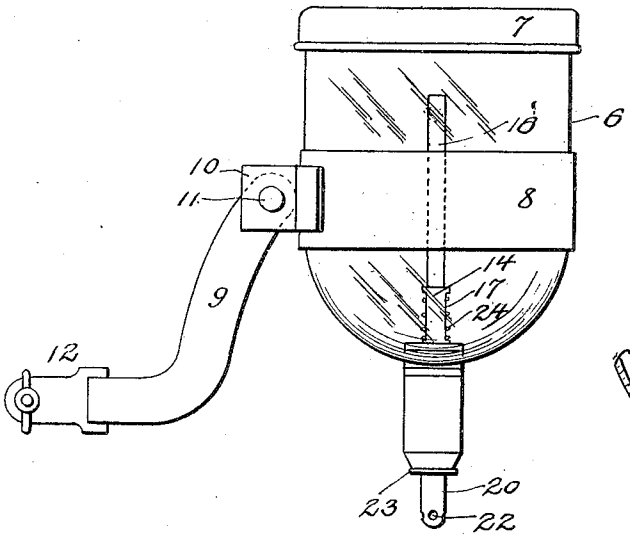


Fig. 1.

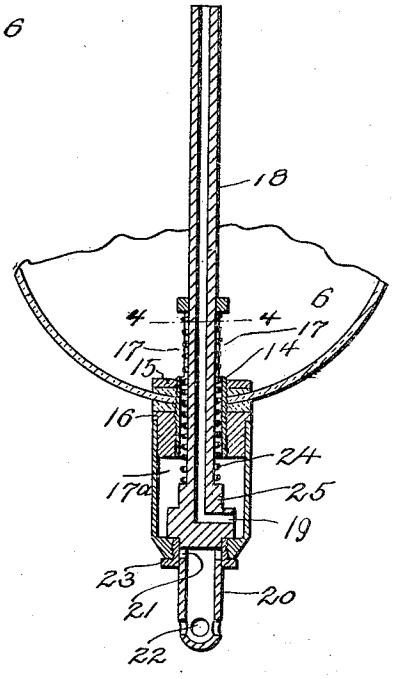


Fig. 2.

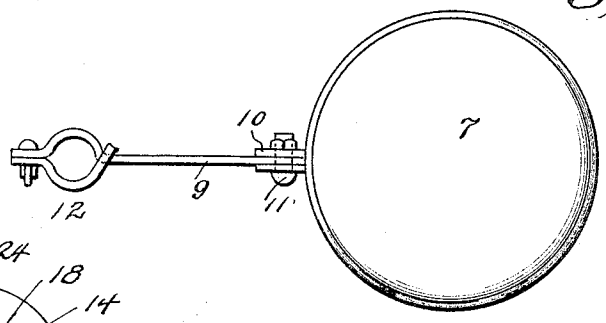


Fig. 3.

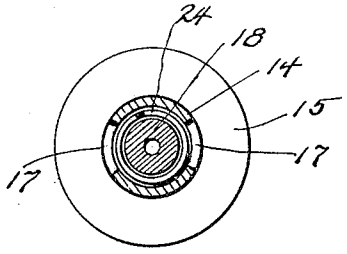


Fig. 4.

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UNITED STATES PATENT OFFICE.

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SOAP-DISPENSER.

No. 798,163. Specification of Letters Patent. Patented Aug. 29, 1905.

Application filed November 11, 1904. Serial No. 232,314.

To all whom it may concern:

Be it known that I, WILLIAM T. CARTER, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented new and useful Improvements in Soap-Dispensers, of which the following is a specification.

This invention is a dispenser for liquid soap of that kind in which the soap is held in a receptacle and is discharged therefrom by operating a valve in the bottom thereof.

The object of the invention is to produce a device characterized by improvement with respect to the valve construction.

In the accompanying drawings, Figure 1 is a side elevation of the device. Fig. 2 is a section through the valve. Fig. 3 is a top view. Fig. 4 is an enlarged horizontal section on the line 4 4 of Fig. 2.

Referring specifically to the drawings, 6 indicates a holder for the liquid soap. This is preferably made of glass and has a cover 7 at the top and an opening in the bottom through which the valve works. The holder is supported by a bracket consisting of a metal band 8, which extends around the holder, and an arm 9 connected to the band by means of angle-pieces 10 and a bolt 11. The angle-pieces 10 are riveted to the ends of the band and the bolt extends through said angle-pieces and the end of the arm 9, said end being between said pieces. This connection permits swing or adjustment of the arm to any angle desired to accommodate the local conditions. The other end of the arm has a clamp 12 for attachment to a pipe, faucet, or other support.

With reference to the valve at the bottom of the holder, 14 indicates a tube which fits through the hole in the bottom of the holder and is fixed in place by nuts 15 and 16 on the inside and outside, respectively. This tube has side openings 17, produced by cutting away the wall of the tube on opposite sides, to allow the flow of soap into and down through the tube. It opens into a chamber 17^a, the size of which determines the quantity of soap delivered at each operation.

18 indicates an air-tube which extends from the chamber 17^a through the tube 14 to nearly the top of the holder. This tube 18 is open at the top and at the bottom has a port 19 opening into chamber 17^a.

20 indicates a tubular valve, provided with ports 21 at the top and ports 22 at the bottom. This valve works through a nut 23 fitted in the bottom of the chamber 17^a, the arrangement being such that when the valve is down the inlet-ports 21 are closed, and when the valve is pushed up said ports open into the chamber 17^a and the soap flows into the same through the tube 20 and out the ports 22. A coiled spring 24 normally holds the valve closed.

In operation the valve 20 is pressed up by hand. The reduced portion 25 thereof enters and closes the lower end of the tube 14, the shoulder 25 coming in contact with the nut 16. This opens the ports 21, so that the soap in the chamber 17^a flows out through the same and air enters down through the tube 18 to fill the space in the chamber 17^a. As soon as the valve drops soap flows into the chamber through the tube 14, forcing the air into the chamber up through the passage 19 and tube 18 into the holder above the top of the soap therein, insuring a free flow of soap.

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

1. The combination with a holder, of a delivery-chamber thereunder, a tube connecting the holder and chamber, and a hollow valve which works through the bottom of the chamber and has an air-tube extending from said chamber through said tube and up into the holder, and also has inlet and outlet delivery-ports from the chamber.

2. The combination with a holder, of a delivery-chamber thereunder, a connecting-tube between the same, a hollow valve which works through the bottom of the chamber and has inlet and outlet ports opened by lifting the valve, an air-tube mounted on top of the valve and extending from the chamber through said connecting-tube and into the holder, and a return-spring bearing upon the valve.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

WILLIAM T. CARTER.

Witnesses:
WM. J. ROBINSON,
SIGNA FELTSKOG.