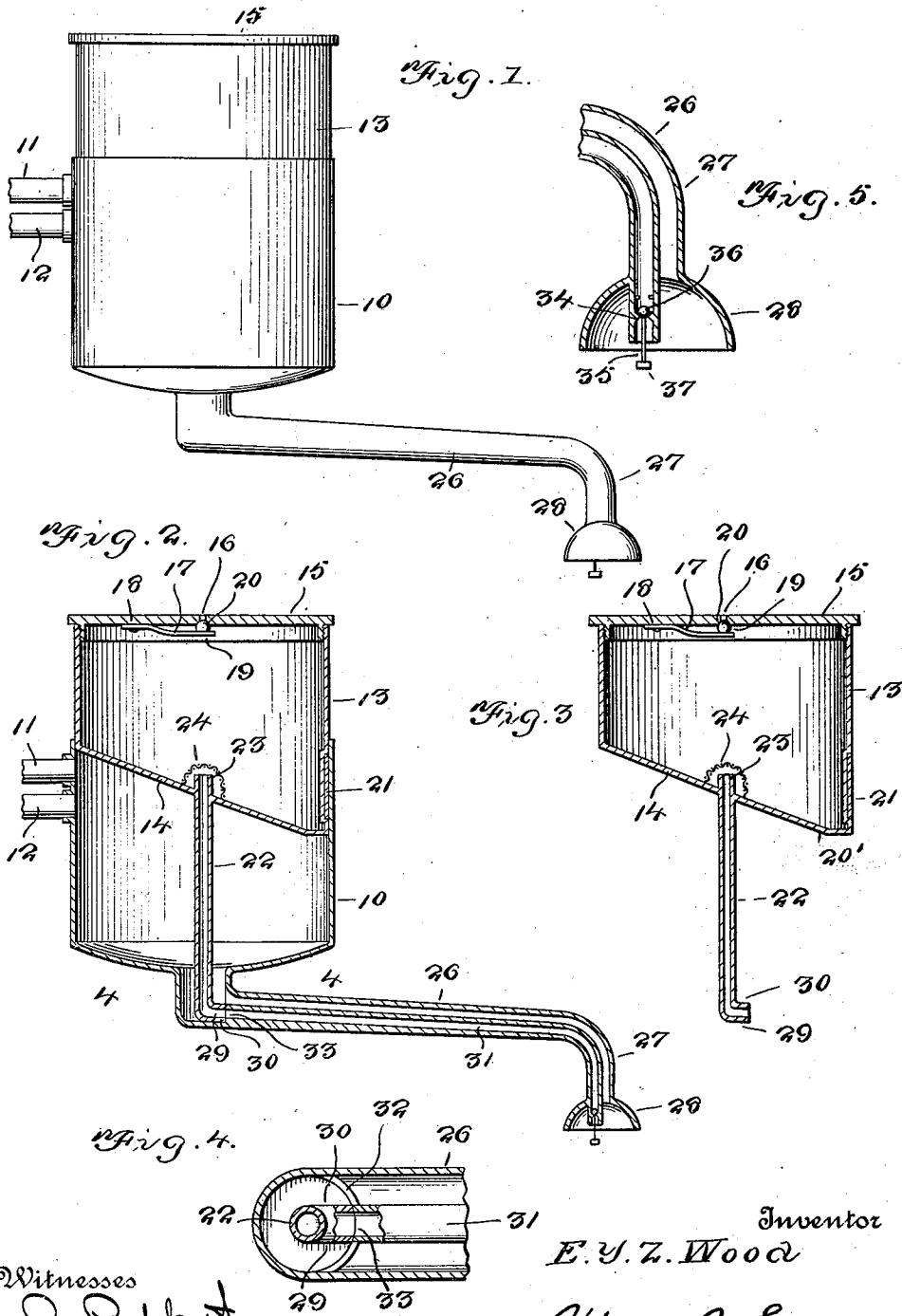


E. Y. Z. WOOD.
 SOAP DISPENSING APPLIANCE.
 APPLICATION FILED MAY 24, 1919.

1,369,595.

Patented Feb. 22, 1921.



Witnesses
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UNITED STATES PATENT OFFICE.

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SOAP-DISPENSING APPLIANCE.

1,369,595.

Specification of Letters Patent. Patented Feb. 22, 1921.

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To all whom it may concern:

Be it known that I, ETHAN Y. Z. WOOD, a citizen of China, residing at New York, in the county of New York and State of New York, have invented new and useful Improvements in Soap-Dispensing Appliances, of which the following is a specification.

This invention relates to new and useful improvements in soap dispensing appliances, and pertains more particularly to devices adapted for use with either liquid soap or soap in cake form.

The primary object of the invention is to provide a device of this character in which soap and water may be dispensed at the same operation.

A further object of the invention is to provide a device of this character in which a predetermined quantity of water may be dispensed with the soap.

A further object of the invention is to provide means whereby the water may be kept running and the supply of soap may be cut off.

Referring to the drawings:—

Figure 1 is a side view of the device,
Fig. 2 is a vertical sectional view thereof,
Fig. 3 is a detail view,
Fig. 4 is a detail sectional view, and
Fig. 5 is a detail sectional view of the valve.

Referring more particularly to the valve, the reference character 10 designates the main receptacle, and leading into said receptacle 10 at the rear thereof are two pipes 11 and 12, one of which serves to supply cold water to the main receptacle, the other pipe serving to supply hot water thereto.

Fitted into the upper end of the main receptacle 10, is a receptacle 13, which is provided with a bottom 14. The top 15 of this receptacle 13 is provided with an air valve 16 which comprises a resilient member 17 secured to the top as at 18, the opposite end 45 of the resilient member 17 carrying a valve member 19, adapted to engage in an opening 20 in said top 15.

As shown in Fig. 3, the front wall of the receptacle 13 is extended downwardly as at 20' and is provided with a pliable facing 21 which when the receptacle 13 is turned in the receptacle 10, the pliable facing 21 will serve to cut off the flow of water from the pipes 11 and 12.

Extending through the receptacle 10 and communicating with the receptacle 13 is a

pipe 22, the upper end of which projects above the bottom 14 of the receptacle as at 23. A guard 24 is provided for the upper end 23, of the pipe 22, this guard comprising a wire gauze secured at its edges to the bottom of the receptacle 13.

Extending from the bottom of the tank 10 is a pipe 26, the outer end of which is bent downwardly as at 27 to form a downwardly projected discharge nozzle 28.

The pipe 22 leading from the tank 13 is bent at right angles as at 29, to form a short leg 30, and leading through the pipe 26 is a second pipe 31, which only partially fills the pipe 26. A semi-circular wall 32 is built up in the pipe 26, said wall being of a height sufficient to close the open end of the right angular leg 30 of the pipe 22. This wall 32 is provided with a circular opening 33 with which the right angular leg 30 is adapted to register, and said semi-circular wall is also adapted to close the opening of said leg when in one of its positions.

The downwardly projected nozzle 28 is 80 provided with a valve seat 34, and slidably mounted in said valve seat which is substantially circular in form is a rod 35, the upper end of which is provided with a ball 36 which is adapted to engage the valve seat 34 to close the passage way therethrough. The lower end of the valve rod 35 is provided with an operating member 37 by which the rod 35 is moved vertically to disengage the valve 36 from the seat 34.

In practice, the receptacle is filled with liquid soap which passes through the pipe 22 and thence to the nozzle 28 by means of the small pipe 31 where it is discharged into the hand of the user. The flow of soap from the receptacle 13 is controlled by the position thereof, *i. e.*, when the open end of the right angular leg 30 is in register with the pipe 31, the soap will be permitted to flow, but when the open end of the right angular leg 30 is out of alinement with the pipe 31, all flow of soap is prevented.

From the foregoing, it will be clearly apparent that the present invention provides a device in which water and soap may be supplied at the will of the operator, and that either may be supplied in the desired quantity.

Having thus described the invention, what is claimed is:—

1. A device of the character described comprising a water receptacle, means for

supplying water thereto, a soap receptacle carried by said water receptacle, means for discharging water from said water receptacle, means for conveying soap from the
5 soap receptacle, and means whereby movement of said soap receptacle relatively to said water receptacle will control the flow of soap from said soap receptacle.

2. A device of the character described
10 comprising a water receptacle, means for supplying water thereto, a soap receptacle carried by said water receptacle, means for discharging water from said water receptacle, means for conveying soap from the
15 soap receptacle, and means whereby movement of said soap receptacle upon said water receptacle will control the flow of soap and of water.

3. A device of the character described
20 comprising a water receptacle, means for supplying water to said receptacle, a soap receptacle mounted on said water receptacle and comprising means to control the supply

of water thereto, and means for controlling the flow of soap from said soap receptacle. 25

4. A device of the character described comprising in combination, a receptacle, a water supply element for said receptacle, a soap receptacle carried by said water receptacle and having a depending wall for co-
30 acting with said supply element to control the supply of water to the water receptacle, and means for controlling the flow of soap from said soap receptacle.

5. A device of the character described 35 comprising a water receptacle, means for supplying water thereto, a soap receptacle, means carried by the soap receptacle for controlling the supply of water to the water receptacle, a discharge pipe leading from
40 the water receptacle, and means located in the discharge pipe for controlling the flow of soap from the soap receptacle.

In testimony whereof I have affixed my signature.

ETHAN Y. Z. WOOD.