C. M. CAMPBELL.

SOAPING DEVICE.

APPLICATION FILED MAR. 30, 1917.

1,250,089. Patented Dec. 11, 1917.

Fig. 1.

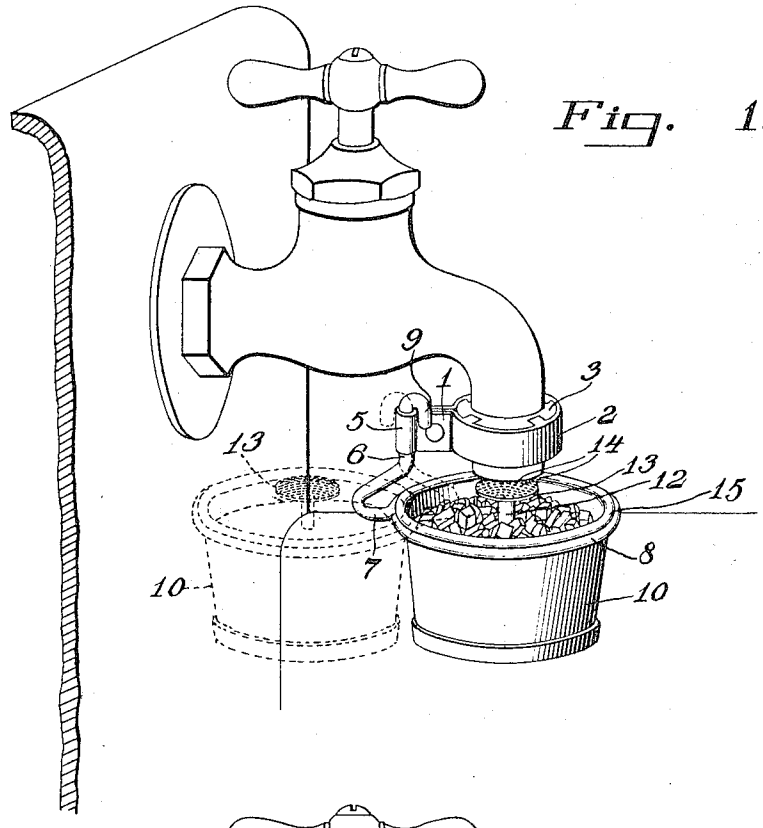
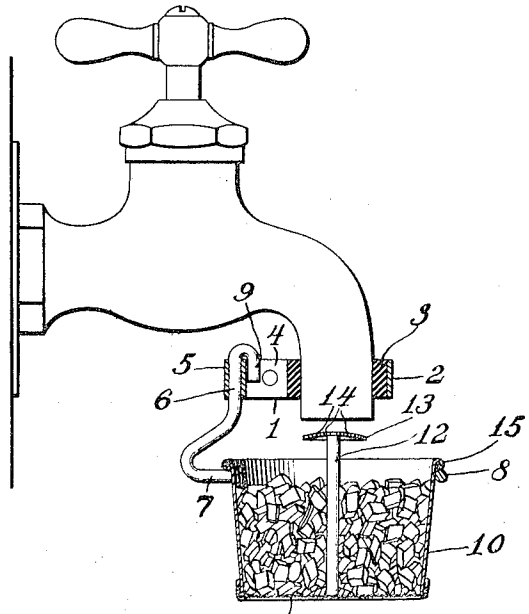


Fig. 2.



WITNESSES

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SOAPING DEVICE.

1,250,089. Specification of Letters Patent. Patented Dec. 11, 1917.

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To all whom it may concern:

Be it known that I, CLINTON M. CAMPBELL, a citizen of United States of America, residing at New York city, in the county of New York and State of New York, have invented new and useful Improvements in Soaping Devices, of which the following is a specification.

This invention relates to soap dispensing devices and has for its principal object the provision of a device of this character which will be especially applicable to faucets and provided with means, whereby small waste particles of soap can be advantageously utilized and converted into a soapy liquid mass by subjecting the same to the action of water as the same flows from the faucet.

Another object of the invention resides in the provision of a device of this character which can be applied to the faucet and adjustably mounted thereon, whereby when not in use it may be moved to one side of the discharge end of the faucet.

Another object of the invention is to provide a device of this character which will include a container for the small particles of waste soap, the said container having a relatively large open end which will permit one to conveniently apply the particles of soap to be inserted, as desired.

A still further object of the invention resides in the provision of a container having a centrally located spray device which is adapted to be arranged in the discharge path of the water as it flows from the faucet, whereby the water will be scattered in a relatively broad lateral direction throughout the full width of the soap container, whereby the underlying particles of soap will be operatively spread and subjected to the impregnating action of the water.

With the above and other objects in view which will appear as the nature of the invention is better understood, the same consists in the improved construction and novel arrangements of parts which will hereinafter be fully described and particularly pointed out in the claims.

In the accompanying drawings, has been illustrated, a single and preferred form of the invention, it being, however, understood that no limitations are necessarily made to the precise structural details therein exhibited, but that changes, alterations and modifications within the scope of the claims may be resorted to when desired.

Figure 1, is a perspective view of a faucet showing the application of the device thereto, the container being shown in an operative position in full lines and in an inoperative position in dotted lines.

Fig. 2, is a vertical section therethrough.

The device consists of an attaching bracket 1, having a collar 2, provided with an elastic gasket 3, which is adapted to snugly hug and embrace the discharge nozzle of the faucet as shown, whereby the device can be operatively suspended therefrom. The said bracket is provided with an extension 4, having a vertical loop 5, which receives the vertical arm 6, of a frame 7. In this manner it will be observed that said frame is adapted for horizontal swinging movements with relation to the discharge end of the mentioned faucet with which the device is associated.

The frame is provided with a substantially circular base or rest 8, while the arm 6, is provided at a point to one side of the extension 4, with a stop 9, which is adapted to contact with the extension and thereby center the frame 7, with the discharge nozzle of the faucet when the device is in an operative or soaping position. This arrangement does not interfere in any way with the swinging of the frame to one side as previously described in order that clear water can be discharged from the faucet for drinking purposes and without being contaminated in any way by being subjected to the action of the soap in the container of the structure to be presently described.

The device herein shown is particularly designed for domestic use and is shown to include a soap container or vessel 10, provided at its base with a reticulated or foraminated bottom 11, constructed preferably of wire gauze. The opposite or upper end of the container is open. Rising from the center of the foraminated bottom 11, is a stem 12, whose length slightly exceeds the depth of the container and is shown the same as provided at its upper end with a concaval-convex cap or crown 13, having closely arranged perforations 14, therein. The diameter of said cap or crown is appreciably less than the diameter of the container in order that a relatively large spray space is formed between the annular walls of said container and the edge walls of said cap or crown. The convexity of the cap or crown is disposed uppermost and as the con-

sequence thereof, the water as it strikes or impinges thereagainst will be sprayed in a lateral direction for the full distance between the center of the container and the outer walls thereof. This augments a soaping action of the water against small soap particles in the container and the water as it passes through the container thoroughly impregnates with soap and as the consequence a thoroughly perfect soaping liquid is discharged from the base of the container. This is particularly true where either warm or hot water is discharged into the container. Aside from providing for a spray of water, the cap or crown 13, causes a certain part of the water to be discharged axially of the container to more thoroughly impregnate the water with soap.

The container is provided at its upper edge with a flange 15, which is adapted to rest upon the base 8, of the supporting frame 7. The construction also provides means whereby the container can be removed when it is desired to clean the same. By positioning the crown or cap 13, relatively of the walls of the container 10, as previously set forth, the space between said crown and said walls will be found most convenient when it is desired to occasionally discharge small waste particles of soap into the container.

I do not wish to limit myself to the precise details of construction of the device nor do I wish it to be understood that I by no means am concerned in the precise formation of the soap container 10, aside from the essential features elsewhere referred to in order to augment the impregnating action of the water. The device is constructed in the manner whereby it is freely applicable to various forms of stock faucets and when adjusted to the position shown in Fig. 1, the crown 13, is disposed in the same vertical line with the aperture in the collar 2, in order that the water from the faucet can be directly discharged upon said crown.

What I claim is:—

1. In a device of the character described, a container having a foraminated bottom, and a rigid spraying crown located at a point slightly above the container and in line with the center thereof and spaced from the sides of the container and adapted to intercept the downward passage of water through the container and spreading the same in a lateral and downward direction as it enters said container as and for the purpose specified.

2. In a device of the class described, a bracket adapted to be secured to the faucet, a swinging frame suspended from said bracket, a stop on the frame co-acting with the bracket to limit the swinging movement of the frame and serving to position the same axially of the nozzle of the faucet, and a soap container carried by said frame and provided with a foraminated bottom, and a spraying crown rising from the center of said container at the upper end thereof and spaced from the walls of said container.

3. In a device of the class described, a bracket adapted to be secured to the faucet, a swinging frame suspended from said bracket, a stop on the frame co-acting with the bracket to limit the swinging movement of the frame and serving to position the same axially of the nozzle of the faucet, and a soap container carried by said frame and provided with a foraminated bottom, and a concavo-convex spraying crown disposed above the container at the top and in line with the vertical center thereof and in the discharge path of the water as the latter leaves the nozzle of the faucet whereby to cause the water to be broadly sprayed in an outward and downward direction for the purpose set forth.

4. In a device of the class described, a bracket adapted to be secured to the faucet, a swinging frame suspended from said bracket, a stop on the frame co-acting with the bracket to limit the swinging movement of the frame and serving to position the same axially of the nozzle of the faucet, and a soap container carried by said frame and provided with a foraminated bottom, and a concavo-convex spraying crown disposed above the container at the top and in line with the vertical center thereof and in the discharge path of the water as the latter leaves the nozzle of the faucet whereby to cause the water to be broadly sprayed in an outward and downward direction for the purpose set forth, the said crown having closely related perforations therein.

In testimony whereof I affix my signature.

CLINTON M. CAMPBELL.