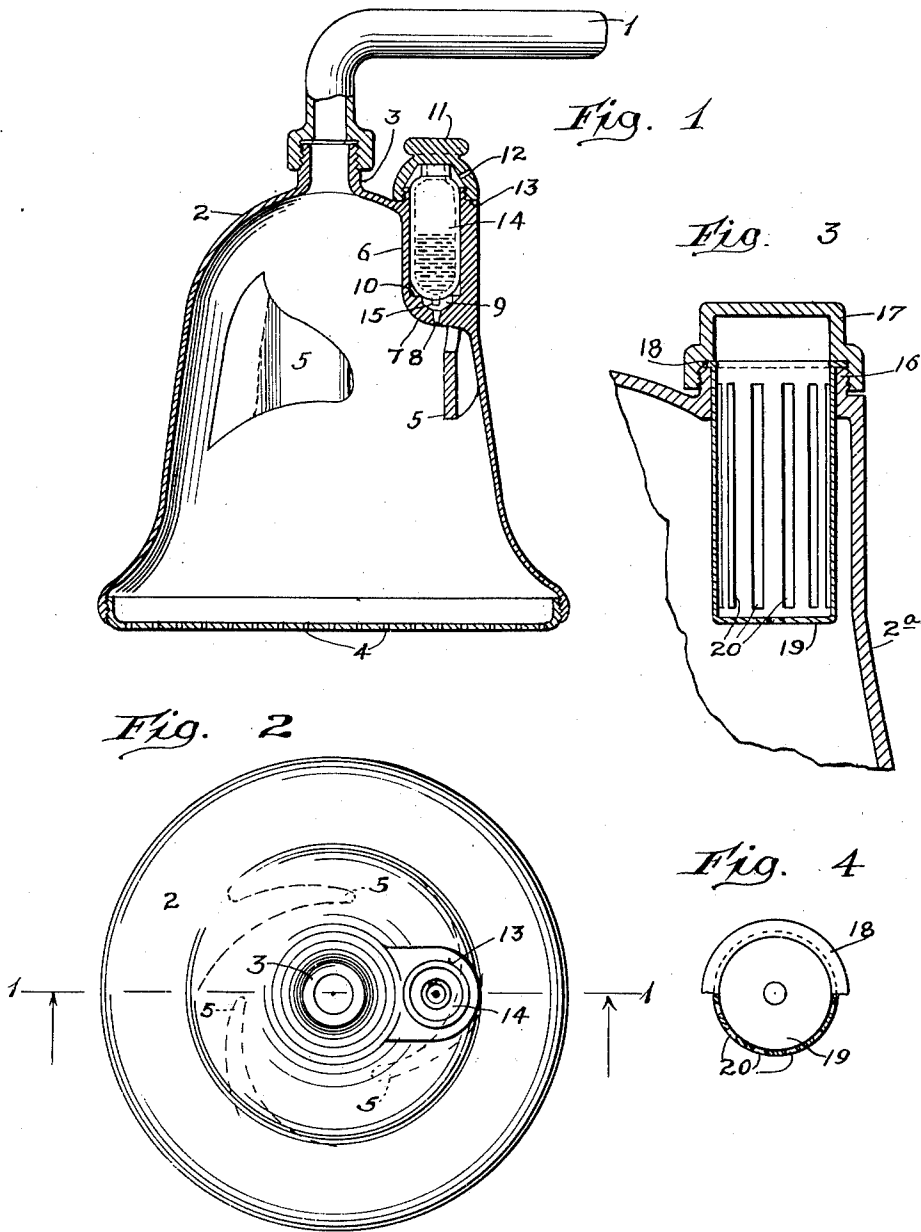


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D. W. DU-FOR
BATHROOM SPRAY

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BATHROOM SPRAY

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1 Claim. (Cl. 299—84)

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This invention relates to improvements in bath room sprays wherein a water agitator constructed for introduction into the line of flow of a water duct is provided with a liquid or vapor dispensing reservoir so carried and positioned relative to the agitator as to subject the contents of the reservoir to a suction thus effecting or assisting the withdrawal of said contents in a predetermined manner and commingling same with the bath water or spray.

A further object is to provide a bath spray of this type wherein a reservoir adjustment is provided affording easy control by the operator over the quantity of reservoir contents dispensed. A still further object is to provide a bath room spray having a liquid or vapor dispensing reservoir operative by the spray water that is very simple in construction, positive and efficient in operation, that is readily applied as a bath room fixture, automatic in operation, and neat and attractive in appearance.

A still further object is to provide a bath room spray with liquid dispensing reservoir that is very inexpensive to manufacture, durable in use, that may be applied or removed without alteration of the existing bath room water duct and that as a fixture is inconspicuous, harmonizing readily with the immediate surroundings.

With the foregoing and other objects in view the invention consists in the combination and arrangement of parts to be hereinafter fully described, defined in the claim and illustrated in the accompanying drawing wherein a preferred embodiment is shown and in which—

Fig. 1 is a central vertical sectional view through a shower spray in which the invention is embodied illustrating its application and taken on the line 1—1 of Fig. 2.

Fig. 2 is a top plan view of Fig. 1.

Fig. 3 is an enlarged fragmentary sectional view of a modified form directed to the dispensing reservoir and its connection to the agitator, and,

Fig. 4 is a detail view of the reservoir of Fig. 3, partly in plan and partly in section.

Like reference characters denote corresponding parts throughout the several views.

In the illustrative embodiment, Figs. 1 and 2, the reference numeral 1 denotes the water duct and 2 the preferably bell-shaped water agitator housing releasably secured to said duct as shown and receiving through its contracted duct-engaging upper end 3 the jet of water that is directed axially of said agitator, said agitator releasably carrying at its discharge end the perforate head 4, said agitator being positioned at

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the customary height above the bath tub or floor for convenient use as a shower.

Within said agitator housing and extending from the wall thereof inwardly toward the center and slightly downwardly and secured to the wall as by welding or formed integral therewith are a plurality of curved spaced somewhat wedge shaped identical vanes 5 each tapering from its base to its free extremity which is projected into the path of the water jet to break up, spray and agitate same. Arranged in the housing wall is a vertically disposed reservoir 6 disposed above said vanes and offset with respect to the path of the water jet entering the housing, said pocket or reservoir extending above said housing as well as thereinto and being preferably oblong in shape and round in cross section and having its inner somewhat rounded end 7 closed except for the downwardly tapered perforation 8 communicating within said reservoir with the dish-shaped recess 9 in said end, said recess being flanked by the annular seat 10. That portion of said reservoir extending above the housing is threaded exteriorly for engagement with the interiorly threaded cap 11 formed with an air vent 12, said cap when closed down tight upon said reservoir seating upon a shoulder 13 thereabout making the juncture between cap and reservoir airtight.

Snugly received in the upper open end of said reservoir is the container or flask 14 for liquid, closed at its lower rounded end wherein, however, it is provided with a drip plug 15 disposed in recess 9 in line with the perforation 8, so that liquid from the flask will drop from said perforated plug through tapered perforation 8 into the housing. The upper open end of flask 14 is flat and smooth so that when the cap 11 is turned down fully it will seat thereupon effectually closing that flask end against the entrance of air which would otherwise enter the cap through perforation 12.

With air closed out from the flask 14 the liquid contained therein will not escape through the drip plug but by manually turning said cap to space it slightly from the upper end of the flask, air may enter perforation 12 and pass into the flask permitting the drip plug to function. The amount of liquid escaping in this manner is determined by the size of the space between said cap and flask end. In operation the water entering the housing 2 will set up a suction to assist in the withdrawal of liquid from the flask which will mix with the water and scent or condition same as desired.

Referring now to Figs. 3 and 4 the housing 2a

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is formed with a threaded orifice 16 provided with a cap 17 for engagement therewith, the flange 18 of the container 19 seating upon the edge of said orifice, the container proper extending through said orifice into the interior of said housing, said container being retained securely in position by engagement of said cap with said flange, the body wall of said container being formed with a plurality of spaced vertical slots 20 extending almost from top to bottom, said container carrying a supply of aromatic bath crystals or scented odoriferous solid material of a like nature, the commotion set up by the water passing through said housing drawing in the vapors and aroma and passing same with said water out through the head 4.

Having thus described illustrative forms of my invention, I desire it to be understood that although specific terms are used, this is in a generic and descriptive sense and not for purposes of limitation, the scope of the invention being set forth in the following claim.

What is claimed is:

In a bath room spray, a housing having inlet and outlet portions and constructed for connection to the end of a water duct, spaced out-

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wardly tapered vanes carried by the wall of said housing and projected into the path of water from the duct, a perforate head at one end of said housing, a reservoir carried by said housing offset to one side of the axis thereof, said reservoir having a drip opening tapering downwardly into said housing, a flask in said reservoir, a drip plug in the lower end of said flask in line with said drip opening whereby liquid from said flask is delivered into the spray from said vanes, and a cap adjustably closing said reservoir, said cap provided with an air-opening.

DENIS WILKINSON DU-FOR.

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