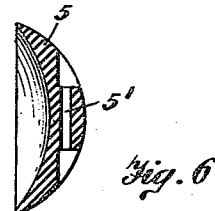
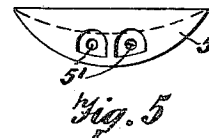
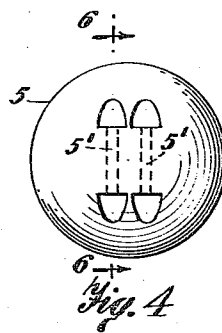
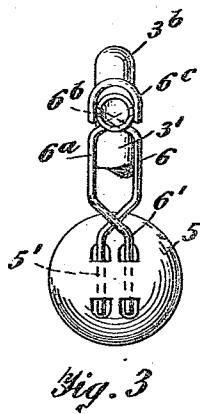
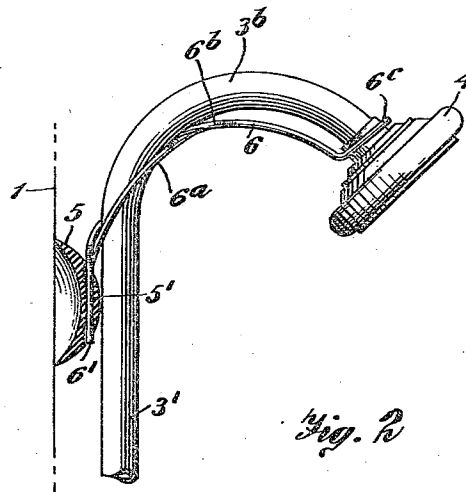
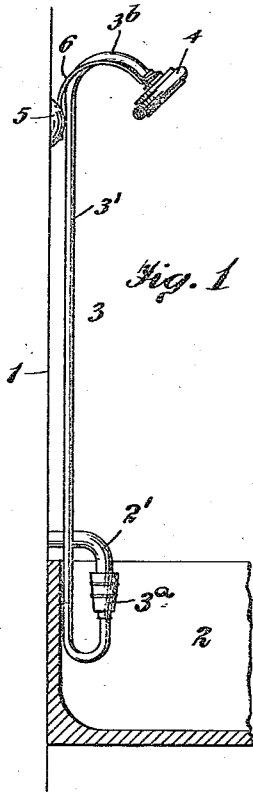


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BATH SPRAY SUPPORT
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BATH SPRAY SUPPORT

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1 Claim. (Cl. 248—75)

This invention relates to improvements in bath sprays.

Bath sprays conventionally embody suction-cups which are necessarily fastened by suction in elevated position on the walls of bath rooms and carry large outstanding and unsightly projections for the reception of the hose on a hose-supporting bracket and it is one of the objects of my present invention to simplify the construction of such bath sprays and to eliminate such outstanding projections.

Another object of my invention is, in a bath spray, to so combine a suction-cup and hose-supporting bracket that the bracket may be used as a handle instead of the said outstanding projection and the hose portion of the bath spray may be positioned close to the wall on which it is mounted.

Another object of my invention is to provide a bath spray of neat appearance in which the suction-cup and bracket will always remain in assembled condition and in which the suction-cup, during application to a wall or the like, will not be excessively collapsed so that it will at all times maintain substantially its normal shape and will not have a tendency to move from an applied, collapsed and flattened condition to a convex position with a consequent loosening of the hold assumed upon the application of pressure when the cup is applied to a wall or the like, and I, therefore, provide greater security against a falling down of the bath spray.

In general terms, my invention comprises the provision of a concavo-convex suction-cup having an outer convex surface provided with an aperture or apertures disposed inside a vertical plane tangent with said outer convex surface and parallel with the wall and I fasten in said aperture or apertures the lower end of a bracket so as to permit the hose to be positioned close to the wall, and the bracket to be used as a handle for applying the suction cup.

In particular, my invention embodies a bath spray having a support comprising a concavo-convex suction-cup provided with a pair of vertical bores passing through the outer convex wall within the confines of said outer convex surface and inside a plane parallel with the supporting wall and tangent to said outside convex surface, said apertures receiving the lower legs of a bracket, serving as an applying handle, fastening a hose to the said cup and supporting a part of said hose and spray-head in goose-neck conformation close to the wall on which the bath spray is mounted.

With these and other objects in view, the invention comprises the combination of members and arrangement of parts so combined as to co-act and co-operate with each other in the performance of the functions and the accomplishment of the results herein contemplated, and comprises in one of its adaptations the species or preferred form illustrated in the accompanying drawing, in which:

Fig. 1 is a view in side elevation of a bath spray or shower device mounted over a bath tub and connected to a bath tub faucet;

Fig. 2 is an enlarged view partly in side elevation and partly in section showing the top portions of the bath spray illustrated in Fig. 1;

Fig. 3 is a front elevation of the suction-cup and bracket mounted therein with the spray-head and part of the hose removed;

Fig. 4 is an enlarged front elevation of the suction-cup with the bracket removed therefrom;

Fig. 5 is a top view of the suction-cup shown in Figs. 1 to 4, and

Fig. 6 is a still further enlarged sectional view, on the line 6—6 of Fig. 4, of the suction-cup with the bracket removed therefrom.

Referring now to the drawing which illustrates a preferred embodiment of my invention, 1 indicates the wall of a bath room, 2 a bath tub having a faucet 2', and 3 is a bath spray having its hose 3' connected at its lower end by the hose connection 3^a with the faucet 2' and provided at its upper end with a spray-head 4.

In accordance with this invention, the neck portion of the rubber hose adjacent to the spray-head 4 is supported in elevated position by a suction-cup 5 combined with a bracket 6 adapted to cause the bending into goose-neck conformation and the secure supporting in such suitable elevated position, on the wall of the bath room or the like, of the bath spray. My suction-cup of novel construction is preferably combined with a metallic bracket arm 6 having a lower end portion 6' supported in said cup and provided with an intermediate portion for holding the hose close to the wall and supporting the outer-end portion of the hose in a goose-neck formation.

It is desirable, in devices of the character specified, to provide a suction-cup that will not be collapsed or flattened or excessively deformed during application by the user and to avoid all centrally-located outstanding projections which tend to localize the manual power employed during application of the cup to the mounting surface, because when such collapsing, flattening or excessive deformation occurs, the wall of a rub-

ber cup tends to resume its convex shape and in doing so causes the edges thereof to move or creep axially, thus loosening the hold of the cup on the surface to which it is applied, and in accordance with my invention I provide a suction-cup which will not, under normal usage, be flattened, collapsed or excessively deformed during application of the bath spray to the wall, and with this end in view, I provide a cup having a convex wall which is relatively rigid and a convex outer surface which is free from the conventional outstanding centrally-located projections which are usually grasped by the user like a handle so that the user, in mounting the cup, has a tendency to apply localized pressure therethrough at the axis of the cup, thus resulting in excessive collapsing and the consequent reflex movement hereinabove specified.

In the preferred embodiment of my invention illustrated in the accompanying drawing, my concavo-convex suction-cup has a relatively rigid convex wall having a convex outer surface and I provide, in said wall of the suction-cup, a vertical aperture or apertures 5' passing through said convex wall and disposed between a vertical plane which is tangent with said outer convex surface at its axis and another plane parallel thereto and touching diametrically-opposite sides of the circular applying edges of the cup, and I fasten in said aperture or apertures the lower end of the metallic bracket which will serve to reinforce the wall of the suction-cup and also to fasten the bracket and suction-cup together. This bracket 6 is provided with an intermediate upwardly extending portion which serves as a handle for the user to apply the bath spray to a bath room wall and also serves to fasten the hose section to the suction-cup so as to maintain the said hose close to the wall.

As illustrated, the bracket 6 is composed of stiff wire and has, at its lower end, two terminal legs 6' which extend through a pair of apertures 5' passing through the wall of the suction-cup and extending from the upper outer surface to the lower outer surface thereof. These bores or apertures thus pass through the outer surface of the convex wall within the confines of said outer convex surface and are disposed between parallel planes, one of which touches the inner perimetric

edges of the suction-cup and the other of which is tangent to the outer convex surface at the axis thereof. I thus provide the convex wall with bores and extend into these bores the metallic legs of the bracket which act as reinforcing members for said wall.

In said preferred embodiment of my invention, the bracket is provided with an intermediate portion 6^a extending above said legs and having adjacent thereto, a cross-portion 6^b which enables the hose to be inserted between the suction-cup and such cross-portions so as to provide a fastening for said hose adjacent to the said suction-cup. Said intermediate portion 6^a of the bracket extends upwardly and outwardly in goose-neck formation to provide a goose-neck support for the upper portion 3^b of the hose, and the outer end of said bracket is provided with a U-shaped end 6^c adapted to fit over the connection between the spray-head and the hose, the arrangement preferably being such that the cross-portions extend beneath the upper hose portion and the U-shaped outer end engages over the connection between the hose and the spray-head to serve as a reinforcement for such connection and to avoid the necessity of a connection-ferrule.

The operation of the bath spray will be obvious from the above description and it will be understood that the constructional features, above described, will maintain the hose close to the wall and locate the spray-head in such position as to spray water into the bath tub in proper relationship thereto.

Having described my invention, I claim:

A bath spray support embodying, in combination, a suction cup comprising a relatively thin body crescent-shaped in cross section and having a convex wall provided with a pair of bores each passing vertically through said convex wall and beginning and terminating at spaced points in said convex wall between the outer perimetric edge and the outer convex wall of the cup, and a bracket composed of stiff wire having, at its lower end, a pair of metallic legs extending through said bores to enable fastening of the bracket in vertical position and to provide a metallic reinforcement for the convex wall of the suction cup.

JOHN EDWARD CONKLIN.