

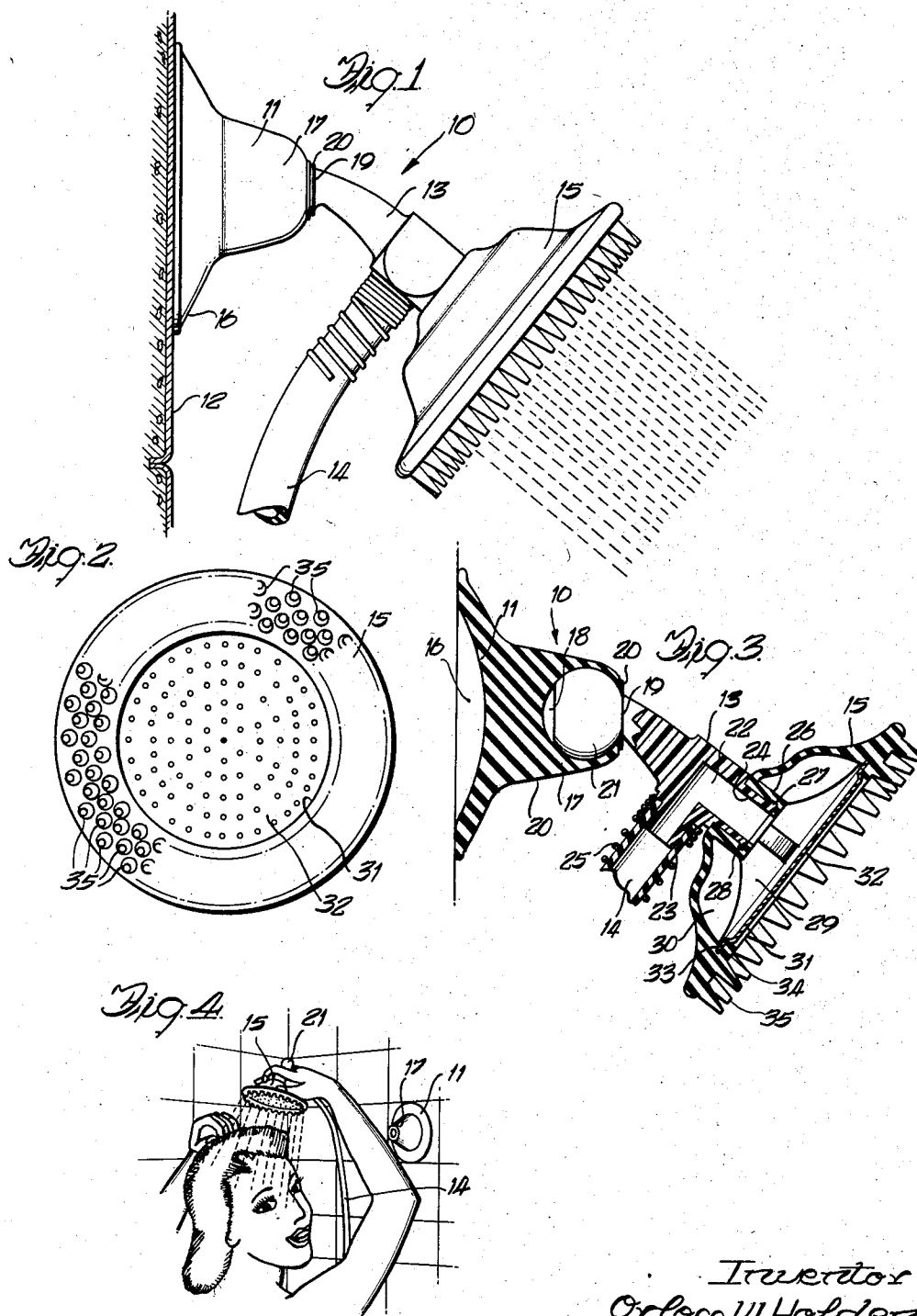
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COMBINATION WALL SHOWER AND SHAMPOO SPRAY

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COMBINATION WALL SHOWER AND SHAMPOO SPRAY

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This invention relates to a combination wall shower and shampoo spray and more particularly to a device that can be alternately used as an adjustable wall shower or a portable shampoo spray.

Detachably mounted adjustable wall showers are common hardware items universally employed where built-in shower plumbing is not available. Portable shampoo sprays are similarly common items widely used for rinsing hair after a shampoo.

The present invention is directed to the combination of the above mentioned adjustable wall shower and the portable shampoo spray in a single device that can be utilized alternately for whichever purpose desired. Combinations of this type have been made previously but they all require complicated mounting structures or limit the usability of one or the other components thus reducing the commercial value of the combination.

I have invented a device which requires little more structure than the common wall shower without sacrificing the adjustability thereof and further it is constructed so that the sprayer can be detached for use as a portable shampoo spray. As a matter of fact even disregarding the advantage obtained by combining these elements the device is an improvement over existing separate shampoo sprays. Thus the water conduit is positioned to extend from the side of the device and since the conduit normally extends to a faucet well below the operating position of the device, less awkward bending of the conduit is required than when the conduit extends upwardly from the top of the device. Further, a knob on the sprayer which engages a socket for mounting as a shower serves the additional function of a handle which extends between fingers of the user to prevent the sprayer from slipping from the hand when soapy and wet.

It is the general object of this invention to provide a new and improved combination wall shower and shampoo spray.

Another object of the present invention is to provide a new and improved adjustable wall shower having a sprayer portion that can be detached from a base for use as a portable shampoo spray.

A further object of the present invention is to provide an adjustable wall shower and portable shampoo spray as described above which is joined to a base by disengageable socket means.

Still another object of the present invention is to provide a device as described above wherein a knob which is attached to the sprayer for mounting in the socket means when using the device as a wall shower, serves as a handle when the device is used as a shampoo spray.

A still further object of the present invention is to provide a device as described above wherein the water conduit extends from the side of the device.

Other and further objects and features of the present invention are readily apparent from the following description and drawings in which:

Figure 1 is a side elevational view of an illustrative embodiment of the combination adjustable wall shower

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and portable shampoo spray shown attached to a tile wall and being used as a wall shower.

Fig. 2 is a front elevational view of the discharge face of the sprayer of the device of Fig. 1.

Fig. 3 is a view similar to Fig. 1 but showing the elements partially in section.

Fig. 4 is a perspective view of the device of Fig. 1 showing it being used as a shampoo spray.

While this invention is susceptible of embodiments in many different forms there is shown in the drawings and will herein be described in detail several embodiments with the understanding that the present disclosure is to be considered as an exemplification of the principles of the invention and is not intended to limit the invention to the embodiment illustrated. The scope of the invention will be pointed out in the appended claims.

Referring now to the drawings a combination wall shower and shampoo spray device generally indicated as 10 is shown to be composed of a base 11 mounted on a wall 12 and having a body member 13 to which a water conduit 14 is attached to receive water which passes through the body portion and is ejected through the sprayer 15.

As shown in Fig. 1 the base 11 consists of a suction cup 16 which is detachably mounted on the wall 12 and pressed there against to create a vacuum type attachment to the wall. In the embodiment shown the base is formed from a resilient material such as soft rubber, however, the base can be of any desired material and can be attached to the wall in any desirable means and still be within the purview of this invention.

The base also includes a socket portion 17 shown in section in Fig. 3 to have a spherical interior 18. The opening 19 in the socket is of a smaller diameter than the maximum diameter of the interior 18 and is surrounded by a thin layer 20 of pliable rubber.

The body member 13 of the device 10 includes a spherical shaped socket insert or knob 21 which is of a size permitting insertion into the socket portion 17 by distorting the layer 20 surrounding opening 19. The diameter of the knob 21 is substantially identical to the diameter of the interior 18 of the socket so that the socket will hold the body member 13 in any desirable position which is adjustable by rotation of the knob within the socket.

The body member extends away from the socket and has an L-shaped passageway 22 extending from a conduit engaging lug 23 through the body member to a sprayer engaging lug 24. The conduit 14 surrounds the lug 23 and is frictionally secured thereon by the resiliency of the conduit and by a circular spring 25 overlying the conduit. The spring 25 extends a substantial distance along the conduit away from the inlet and has sufficient rigidity so as to prevent kinking of the conduit.

The sprayer 15 is attached to the body member 13 by engagement of the body engaging portion 26 with the sprayer engaging lug 24. The lug has a flange 27 at its outer end which engages an annular slot 28 in the body engaging portion 26 so that when the sprayer is forced on the outlet the flange will engage the slot securing the sprayer to the body member. The sprayer is preferably formed of resilient material and the inner diameter of the body engaging portion is slightly less than the outer diameter of the lug so as to form a seal when mounted thereon to prevent leakage of water therebetween.

The sprayer has a hollow interior 29 provided with radial ribs 30 which add strength to the sprayer and direct the path of water flow. A discharge opening 31 is positioned opposite the body engaging portion 26 and is covered by a perforated metal disk 32 to form a discharge face through which water flows in the form of a spray. This disk 32 is mounted across the opening 31 by engage-

ment of a peripheral flange 33 in an annular groove 34 in the periphery of the discharge opening.

For use as a shampoo spray the sprayer may be provided with a plurality of nipples 35 positioned adjacent the discharge opening 31 and extending perpendicularly to the disk 32.

In operation the shower and spray device 10 is secured to a wall by seating the suction cup thereon. In this position the device can be used as an adjustable wall shower, the direction of flow of the shower being adjustable by movement of the knob 21 with respect to the socket portion 17 of the base.

When it is desired to use the device as a portable shampoo spray the body member 13 is disengaged from the socket portion 17. As shown in Fig. 4 the knob 21 is grasped between two fingers and prevents slipping of the device in the hand when either or both are wet or soapy.

When it is desired to replace the sprayer on the wall the socket insert 21 is simply forced into the socket portion of the base, distorting the layer 20, and the device is once again in position for use as an adjustable wall shower.

The present device is obviously susceptible for use as a shampoo spray only without being utilized as a wall shower, such as in barber shops and beauty parlors. In such case the suction cup base forms a convenient means for storing the shampoo spray when not in use.

Therefore it is apparent that this invention provides a combination adjustable wall shower and portable shampoo spray which requires no more structure or complicated parts than the normal shower spray, which retains the adjustability of a wall shower, which can be simply detached for use as a shampoo spray with a conveniently located handle, and which has the water conduit extending from the side thereof to greatly facilitate manipulation.

I claim as my invention:

1. Spraying apparatus having, in combination, a base adapted to be mounted on a wall and having an outwardly opening socket defined by resilient material, a hollow body having a ball projecting from one side and fitting tightly in said socket to support said body in different positions of adjustment relative to said base while permitting detachment of the body from the base, a sprayer projecting rigidly from the side of said body opposite said one side for movement with the body relative to said base and communicating with the interior of the body for the discharge of liquid therefrom, and a conduit secured to said body intermediate said ball and said sprayer for movement with the body relative to said base, said conduit communicating with the interior of said body to introduce liquid under pressure for discharge through said sprayer.

2. Spraying apparatus having, in combination, a base adapted for attachment to a wall, a hollow body, a ball and socket joint supporting said body on said base for movement to different positions of adjustment relative to the base, said joint having one part rigid with said base and another interfitting part projecting from one side of

said body, a sprayer projecting rigidly from the side of said body opposite to said one side for movement with the body relative to said base and communicating with the interior of the body for the discharge of liquid therefrom, and a conduit secured to said body intermediate said other joint part and said sprayer for movement with the body relative to said base, said conduit communicating with the interior of said body to introduce liquid under pressure for discharge through said sprayer.

3. Spraying apparatus having, in combination, a base adapted to be mounted on a wall and having an outwardly opening socket defined by resilient material, a hollow body having a ball projecting therefrom and fitting tightly in said socket to support the body in different positions of adjustment relative to said base while permitting detachment of the body from the base, a sprayer rigid with said body for movement therewith relative to said base and communicating with the interior of the body for the discharge of liquid therefrom, and a conduit secured to said body for movement with the body relative to the base and communicating with the interior of the body for introducing liquid to be discharged through said sprayer.

4. Spraying apparatus having, in combination, a base adapted for attachment to a wall, a hollow body, a ball and socket joint supporting said body on said base for movement to different positions of adjustment relative to the base while permitting detachment of the body from the base, said joint having one part rigid with said base and another interfitting part on said body, a sprayer rigid with said body for movement therewith relative to said base and communicating with the interior of the body for the discharge of liquid therefrom, and a conduit secured to said body for movement with the body relative to said base and communicating with the interior of the body to introduce liquid under pressure for discharge through said sprayer.

5. Spraying apparatus having, in combination, a base adapted for attachment to a wall, a hollow body detachably supported on said base for movement to different positions of adjustment relative to the base, a sprayer rigidly mounted on said body for movement therewith to said different positions and communicating with the interior of the body for the discharge of liquid from the body, and a conduit secured to said body for movement therewith relative to and away from said base and communicating with the interior of the body to introduce liquid under pressure for discharge through said sprayer.

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