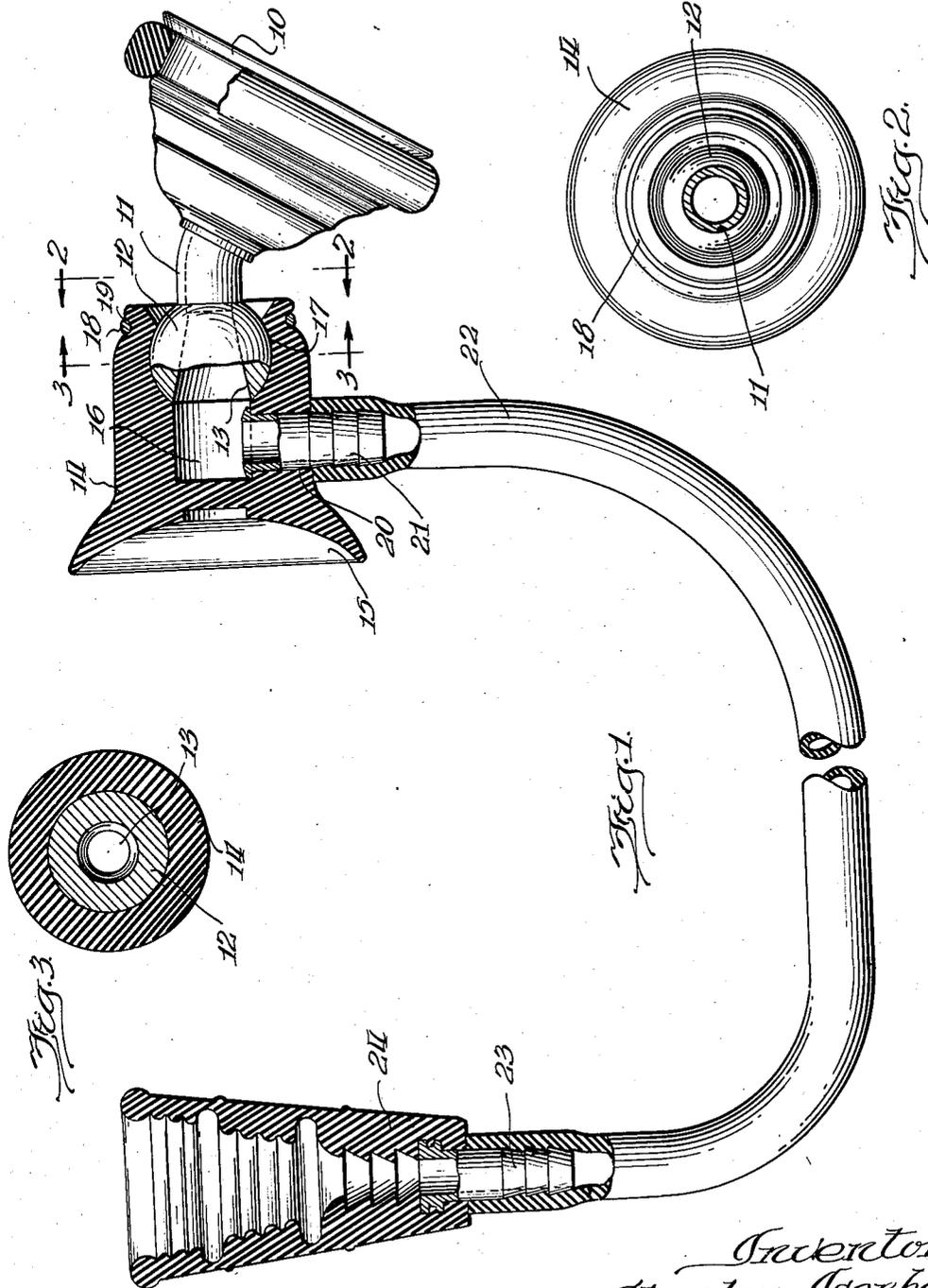


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BATH SPRAY
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BATH SPRAY

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12 Claims. (Cl. 299-73)

This invention relates to a bath spray, and more particularly to a bath spray which may be detachably supported in a plurality of positions, the supporting thereof being accomplished by means of a suction cup or the like.

An object of this invention is to provide a bath spray with which is associated a member of soft rubber or the like, said member forming a support for the spray head and having a suction cup formed on one end thereof by means of which the spray may be detachably secured on a wall, or the like.

Another object of this invention resides in the provision of a spray of the character described including a member of soft rubber, on one end of which is formed a suction cup and on the other end of which is provided a chamber, the open end of which chamber has formed therein a ball receiving socket whereby a spray head may be operatively secured within said socket for connecting the spray head to the member, in which position the head may be moved to a plurality of operative positions relative to the supporting member.

A further object of this invention is the provision of a bath spray of the character described having the spray head provided with a suitably shaped neck terminating in a ball member, a supporting member of yielding material, such as soft rubber or the like, said supporting member being provided with an open ended chamber in one end thereof, said open end having a socket formed therein for receiving the ball member, and means for securing the ball member to its socket in a manner to permit the movement of the head relative to the supporting member, but which will prevent the escape of liquid through said ball and socket connection.

A still further object of this invention is to provide a bath spray comprising a spray member having an angularly disposed neck terminating in a ball member and a supporting member of yielding material such as soft rubber or the like, having a chamber formed therein, said chamber being provided with an inlet adjacent one end thereof and a ball receiving socket adjacent the other end, and means for connecting the ball member of the spray head within the socket of the supporting member in position to permit the adjustment of the head relative to the supporting member, but preventing escape of liquid through said ball and socket connection, and a suction cup formed on said supporting member at one end thereof.

A still further object of the invention is the

provision of a bath spray of the character described, including the ball and socket joint connection between the spray head and a supporting member, the ball and socket connection being formed of a non-yielding ball member disposed within a co-operating socket of yielding material, such as soft rubber or the like.

A still further object of this invention is the provision of a spray of the character described, said spray being connected to a supporting member of yielding material, such as soft rubber or the like, within which is provided a chamber having an inlet for the admission of water thereto, said chamber also having formed therein a ball receiving socket within which the spray head is disposed in operative position, the outlet from said chamber being through the ball member of the spray head and a suction cup provided at one end of said supporting member, whereby the spray may be detachably secured to a wall or the like.

A still further object of this invention is to provide a bath spray of the character described, to be simple in construction, assembly and operation, which may be produced along lines convenient for low cost manufacture and which will be highly efficient for carrying out the purposes for which it is designed.

With the foregoing and other objects in view, which will appear as the description proceeds, the invention consists in certain novel features of construction, arrangement and combinations of parts hereinafter more fully described, illustrated in the accompanying drawing, and particularly pointed out in the appended claims, it being understood that various changes in the form, proportion, size and minor details of the structure may be made without departing from the spirit or sacrificing any of the advantages of the invention.

For the purpose of facilitating an understanding of my invention, I have illustrated in the accompanying drawing a preferred embodiment thereof, from an inspection of which, when considered in connection with the following description, my invention, its mode of construction, assembly and operation, and many of its advantages, should be readily understood and appreciated.

Referring to the drawing in which the same characters of reference are employed to indicate corresponding or similar parts throughout the several figures of the drawing:

Figure 1 is an elevational view of a bath spray embodying the present invention, parts thereof

being shown in section to more clearly illustrate the same;

Fig. 2 is a plan view taken on line 2—2 of Fig. 1; and

Fig. 3 is a sectional view taken on line 3—3 of Fig. 1 looking in the direction of the arrows.

Referring to the drawing more specifically by characters of reference, the reference character 10 designates a spray head which may be of any suitable and well known construction and which is provided with a neck portion 11 arranged substantially at the angle shown in Fig. 1 of the drawing. In other words, said neck 11 is substantially goose-neck-shaped to permit the disposition of the head 10 at the proper angle with relation to the supporting member to be presently more fully described. The neck 11 terminates in a ball member 12 within which is provided a passage 13 communicating with the passage provided in the neck 11 for admitting a supply of liquid to the discharge end of the spray head 10.

A supporting member, generally designated by the reference character 14, is provided for supporting the spray head 10, said member 14 being formed of any suitable yielding material, such, for example, as soft rubber or the like, and is of a size and shape which may be readily grasped by the hand of the operator in the manipulation of the spray. Thus the member 14 may form a sort of handle by means of which the same may be held in operating the spray.

The member 14 has formed at one end thereof, as shown at 15, a suitable suction cup by means of which the entire device may be readily supported on a wall, or other object having a smooth surface, and in which position it will be substantially rigidly held by the suction cup until removed by the operator. The member 14 has formed therein a suitable chamber 16, which chamber is open at one end and has formed therein adjacent said open end a suitable ball receiving socket 17 for the reception of the ball member 12.

A suitable split ring 18, of metal or the like, is provided for securing the ball member 12 within its socket 17. Said split ring 18 may be arranged within a suitable annular depression 19 formed in the outer surface of the member 14.

As shown in Fig. 1 of the drawing, when the spray head is in assembled position with the member 14, the passage 13 within the ball member 12 will be in communication with the chamber 16 and will form the outlet from said chamber. It will also be noted that the ball member 12 will assume a snug fit within its socket 17, and although the ball and socket connection formed thereby will permit the ready adjustment of the spray head to various positions relative to the supporting member 14, it will at the same time prevent the escape of water through said connection.

The member 14 is provided in the side wall thereof with a suitable opening 20, which opening forms the inlet for the chamber 16. A suitable member 21 of metal or the like is disposed within said opening and is adapted for receiving on one end thereof one end of the flexible pipe 22, the other end of which may be connected to a water faucet or the like for supplying water to the chamber 16.

In the embodiment illustrated in Fig. 1, the hose 22 is connected at its other end to a member 23, to the other end of which member is connected a suitable member 24 for fitting over the open end of the faucet and for establishing communication between the faucet and the spray head 10,

In assembling the device, the supporting member 14 will readily receive the ball member 12 when the split ring 18 is out of operative position. After the ball member 12 has been disposed within the socket the placing of the split ring 18 within its groove 19 will securely lock the ball and socket joint in its operative position and will prevent the removal of the ball member from its socket.

In the use of the spray, the member 14 may be held in the hand of the operator and the spray used in the conventional manner. However, if it is desired to fix the member 14 to a wall or the like, this may be accomplished by the use of the suction cup 15, which suction cup will be effective for holding the device in the position to which it is adjusted, the connection between the suction cup and the supporting wall being of sufficient strength to permit the adjustment of the spray head 10 within the socket 17 without destroying the connection between the supporting member 14 and the wall upon which it is supported.

From the above it will be apparent that I have constructed a bath spray which may be used in the manner in which devices of this character have been heretofore used, or the same may be adjustably secured on a suitable surface for supporting the spray in a desired position. It will also be noted that the ball and socket connection between the spray head and the supporting member includes a non-yielding ball member disposed in a socket formed in a member of yielding material, thereby assuring a substantially non-leak connection, while at the same time permitting the free movement of the ball member within its co-operating socket.

It is believed that my invention, its mode of construction, assembly and operation, and many of its advantages should be readily understood from the foregoing without further description, and should also be manifest that while a preferred embodiment of the invention has been shown and described for illustrative purposes, the structural details are, nevertheless, capable of wide variation, within the purview of my invention as defined in the appended claims.

What I claim and desire to secure by Letters Patent of the United States is:

1. A device of the character described, comprising a spray head, a neck portion associated with said spray head and terminating in a ball member, a supporting member of soft rubber having an open ended chamber formed therein, a yieldable socket formed in said chamber adjacent the open end thereof for receiving said ball member and a suction cup formed at the other end of said supporting member, means detachably securing the ball member within said socket, an inlet for said chamber, said ball member having a passage therethrough for establishing communication between said inlet and spray member.

2. In a device of the character described, the combination of a spray head and a supporting member of yieldable material for said spray head, said supporting member being constructed to provide a yieldable socket at one end and a suction cup at the other end, said head being connected to said supporting member by means of a ball received in said yieldable socket, said supporting member having a chamber formed therein, the ball member having a passage therethrough for establishing communication between the spray head and the said chamber, an inlet for said chamber, and means detachably securing the ball member within its socket in operative position.

3. In a device of the character described, a ball

and socket joint, the socket being formed in a member of soft rubber, the ball being of non-yielding material, and means detachably securing the ball within the socket in operative relation.

thereto for supplying liquid to the inside of the chamber.

8. A device of the character described comprising a member of yieldable material, said member being constructed so as to provide a yieldable socket at one end and a suction cup at the other end, a chamber within said member, an inlet for said chamber, a ball member mounted in said socket and a spray head connected to said ball member, said ball member having a passage therethrough forming an outlet from said chamber, and means detachably securing said ball member in said yieldable socket.

9. A device of the character described, a member of yieldable material, said member being constructed so as to provide a yieldable socket at one end and a suction cup at the other end, a chamber within said member communicating with said socket, an inlet for said chamber, a ball member mounted in said socket, a spray head connected to said ball member, said ball member having a passage therethrough for establishing communication between said spray head and chamber, and means detachably securing said ball member in said yieldable socket.

10. A member of soft rubber formed with a suction cup on one end and a yieldable socket at the other end thereof, a chamber provided in said member and communicating with said socket, an inlet for said chamber, a ball member having a spray head extending therefrom received within said socket, said ball member having a passage leading to the spray head, and means detachably securing said ball member in said yieldable socket.

11. A device of the character described, comprising a spray head, a neck portion associated with said spray head and terminating in a ball member, a supporting member of soft rubber having a suction cup at one end thereof and a socket at the other end formed integral therewith, means detachably securing the ball member within said socket, a chamber within said member communicating with said socket, an inlet for said chamber, said ball member having a passage therethrough for establishing communication between said inlet and spray head.

12. A device of the character described comprising a spray head and a supporting member within which said spray head is adjustably mounted, said supporting member being of yielding material and being constructed to provide a yieldable socket at one end and a suction cup at the other end, means detachably securing the spray head in operative position in said yieldable socket, a chamber formed within said supporting member for establishing communication between said spray head, and an inlet provided in said supporting member, said supporting member forming a handle for facilitating the manipulation of the device.

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4. A ball and socket connection for a device of the character described comprising a hollow ball member formed of non-yielding material, a socket for receiving said ball member formed in a body of yielding material, and means holding the said ball and socket in operative position.

5. A device of the character described comprising a spray head formed with a goose neck terminating in a ball member, said ball member and neck having a passage extending therethrough, a supporting member of yieldable material provided with a chamber open at one end, a ball receiving socket formed in said supporting member and disposed adjacent the open end of said chamber and adapted for receiving the ball member, means detachably securing the ball member within said socket, an inlet for said chamber, and a suction cup provided at one end of said supporting member whereby the same may be detachably secured on a flat surface.

6. In a device of the character described, the combination of a spray head and a supporting member therefor of yielding material, said supporting member having a suction cup formed at one end thereof for detachably supporting the same on a wall or the like, an open ended chamber formed in said supporting member, a ball receiving socket formed in said supporting member adjacent the open end of said chamber, a neck portion angularly disposed with relation to the spray head extending from said spray head and terminating in a ball member, said ball member being disposed within the socket, a split ring securing said ball member within the socket for snugly holding the same therein, a passage provided through said ball member, said passage being substantially the same in diameter at its open end as the diameter of the chamber provided in the supporting member, and an inlet for said chamber.

7. A device of the character described including a member of soft rubber having a suction cup formed in one end thereof and an open ended chamber provided at the other end thereof, a ball receiving socket formed in said supporting member adjacent the open end of the chamber, a collar extending beyond said socket, a spray head terminating in a hollow ball member disposed within said socket, and a split ring surrounding said collar and securing said spray head in place, one wall of said chamber being provided with an opening extending therethrough, a nipple disposed within said opening and extending beyond the wall of said supporting member, whereby a flexible hose may be attached