

UNITED STATES PATENT OFFICE

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SHOWER

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3 Claims. (Cl. 299—84)

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This invention relates to a shower head and more particularly to a shower head having a dispensing attachment associated therewith.

The primary object of this invention is to enable a person taking a shower to dispense perfume, toilet water or the like along with the water sprayed from a shower head.

Another important object of this invention is to provide an attachment capable of realizing the foregoing object which may be readily attached to conventional shower outlets, and from which the flow of material being dispensed may be readily controlled.

Another important object of this invention is to provide an attachment of this character in which the supply of material being dispensed may be readily ascertained visually.

Another important object of this invention is to provide an attachment of this character which may be readily incorporated with conventional shower outlets and which may be utilized to dispense two or more separate and distinct materials into the shower stream either simultaneously or separately and in controlled amounts as desired.

Another object of this invention is to provide a device of this character which will be efficacious in operation and which will present a pleasing appearance while being durable and efficient for the purposes intended.

A meritorious feature of the present invention resides in the introduction of the material being dispensed into the shower head proper, whereby maximum mixing effect is attained, yet which minimizes coagulation and corrosion of the plumbing since the material remains in the shower head a very short time should the nature of the material being dispensed and the tap water be of such a nature as so cause an interaction tending to produce this undesirable but unavoidable result upon mixing.

Another important feature of this invention resides in the saddle and means for attaching the receptacles to the water pipe together with the downward inclination of the water pipe which permits gravity flow of the fluid from the receptacles.

Another important feature of the present invention resides in the receptacles provided whereby the supply of material contained therein may be ascertained visually.

A final feature to be specifically enumerated herein resides in the valve means provided for controlling the flow of material from the receptacles.

These together with various ancillary features

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and objects of the invention which will later become apparent as the following description proceeds, are attained by the present invention, a preferred embodiment of which has been illustrated by way of example only in the accompanying drawings, wherein:

Fig. 1 is a perspective view of a suitable embodiment of the present invention;

Fig. 2 is a vertical sectional view taken upon the plane of the section line 2—2 of Fig. 1;

Fig. 3 is a fragmentary vertical sectional view taken upon the plane of the section lines 3—3 of Fig. 1; and

Fig. 4 is a fragmentary top plan view of the top of one of the receptacles.

Reference is now made more specifically to the accompanying drawings, wherein like numerals designate similar parts throughout the various views, and in which the numeral 10 indicates a water pipe generally, which includes a horizontal portion 12 and a downwardly inclined portion 14 connected by a 45 degree L. The lower end of the portion 14 being suitably secured, as at 18, to the dome 20 of a shower head 22. A saddle 24 is secured to the pipe 12 by means of a clamp 26. Blocks 28 are secured at the outer ends of the saddle 24 each of which is provided with an L-shaped passage 30. Receptacles 32 and 34 are supported on the blocks 28, which are of identical construction, and a description of one as shown in Fig. 2 will suffice for both. The receptacle 34 includes a base 36 and a cover 38 and a transparent cylinder 40. The base 36 and the cover 38 are provided with annular ribs 42 which embrace the lower and upper rims of the cylinder respectively and studs 44 are provided which extend thru the marginal edges of the base 36 and the cover 38 for retaining the cylinder 40 therebetween, sealing rings 46 being provided to prevent leakage from a cylinder 40.

The base 36 is provided with a threaded boss 38 which is threadingly received in a connector 50, the connector 50 being in turn threadingly received in a socket 52 in the block 28. An opening 54 is provided thru the base 36 which communicates thru a bore 56 in the connector 50 with the passage 30.

A needle valve 58 extends into the opening 54 and is attached to a valve stem 60 which extends thru the cover 38. The valve stem 60 carries a valve member 62 adjacent the needle valve 58 which seats against the base 36, and a compression spring 64 embraces the valve stem 60 and is seated between the cover 38 and the valve

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member 62 for urging the same into the closing position. The upper end of the valve stem 60 is threaded and a valve control handle 66 is secured thereto by means of an adjustment nut 68. As best shown in Fig. 4, the valve control handle 66 is bifurcated to provide legs 70 which are pivotally secured adjacent their ends to a collar 72 as at 74. It will be readily understood that the valve control handle 66 may be raised, thereby lifting the valve stem 60 to control the flow of material from the receptacle 34 thru the passage 30. The cover 38 is in addition provided a fill plug 76 for replenishing the contents of the receptacle 34.

Conduits 78 and 80 communicate between the passages 30 and the interior 82 of the shower head 22. Although metallic conduits will suffice flexible conduits have been illustrated in the drawings which are connected to the blocks 23 by means of nipples 84 and caps 86, while the other end of the conduits are secured to nipples 88 by caps 90. The nipples 88 being threadingly received in adaptors 92 suitably secured to the dome 20.

The use of the attachment will be readily understood. The receptacles 32 and 34 are supplied with suitable perfumes or toilet waters, or perhaps one of the same may be filled with liquid soap or a water softening agent if so desired. The operation of the shower head being otherwise normal with respect to the use of the water, however, as will be readily understood various liquid agents may be dispensed along with the water as desired.

From the foregoing, the construction and operation of the device will be readily understood and further explanation is believed to be unnecessary. However, since numerous modifications and changes will readily occur to those skilled in the art after a consideration of the foregoing specification and accompanying drawings, it is not desired to limit the invention to the exact construction shown and described, but all suitable modifications and equivalents may be resorted to, falling within the scope of the appended claims.

Having described the invention, what is claimed as new is:

1. An attachment for use with a water pipe and shower head comprising a bracket adapted to be secured to a water pipe, a receptacle having top and bottom walls, the top wall having a guide opening therethrough, and the bottom wall having an outlet opening therethrough, a valve stem slidable through the guide opening and having a valve at its lower end for controlling the flow of a material through the outlet opening, a compression spring surrounding the valve stem and seated against the underside of the top wall for urging downward movement of the valve stem to close the outlet opening, a dish-shaped valve element secured adjacent the lower end of the valve stem for engagement with the base to close the outlet opening, the lower end of the compression spring seated on said valve element, means disposed above the top wall to raise the valve stem, a receptacle mounting block carried by the bracket having an L-shaped passage, said passage including a vertical branch the upper end

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of which is internally threaded, said bottom wall having a depending internally threaded portion surrounding the outlet opening that is threadingly received in the vertical branch of the passage, and conduit means for establishing communication between said passage and the interior of a shower head.

2. A plumbing fixture comprising a water pipe and shower head secured thereto, a receptacle mounted on said pipe, a conduit communicating between the interiors of said receptacle and said shower head, said receptacle comprising a base and a cover, and a transparent cylinder, means for retaining said base and cover in sealing engagement with said cylinder, said base being provided with an outlet opening communicating with said conduit, and said cover being provided with a valve stem guide opening therethrough, a valve stem slidable through the guide opening and having a pointed lower end movable into the outlet opening to constitute a needle valve therefor, a compression spring embracing the valve stem and seated against the underside of the cover for urging downward movement of the valve stem, and means disposed above said cover and connected to said valve stem for raising the latter, a dish-shaped valve element secured adjacent the lower end of the valve stem for engagement with the base to close the outlet opening, the lower end of the compression spring seated on said valve element.

3. An attachment for use with a shower head and water pipe comprising an elongated saddle having clamping means intermediate its ends for engaging a water pipe, blocks mounted on opposite ends of said saddle, receptacles mounted on said blocks, said blocks having threaded bores therein, connectors threadedly engaging said threaded bores, said receptacles being detachably mounted on said connectors, said receptacles, connectors and blocks having communicating conduit means therein, said conduit means adapted to further communicate with the interior of a shower head, valve means in said receptacle for controlling the flow of fluid from the receptacle to the shower head.

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