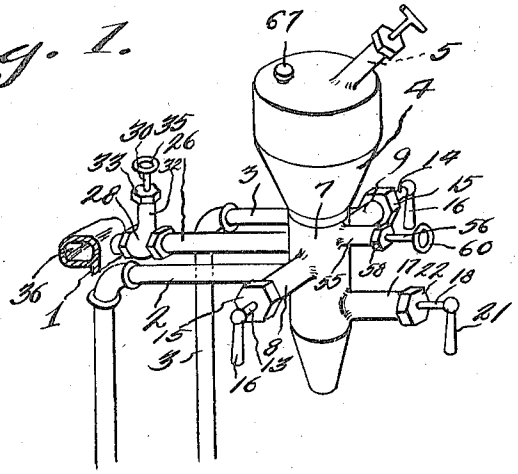
O. D. BUTLER.

MEDICAL LIQUID DELIVERER ATTACHMENT FOR WATER PIPES OF BATH TUBS.

APPLICATION FILED NOV. 29, 1916.

1,264,772. Patented Apr. 30, 1918.

Fig. 1.



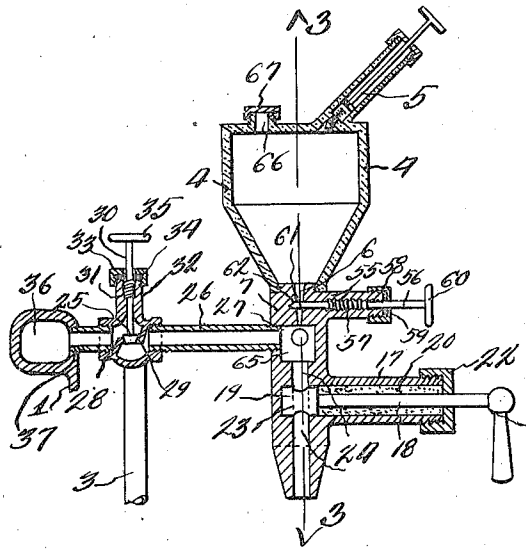


Fig. 2.

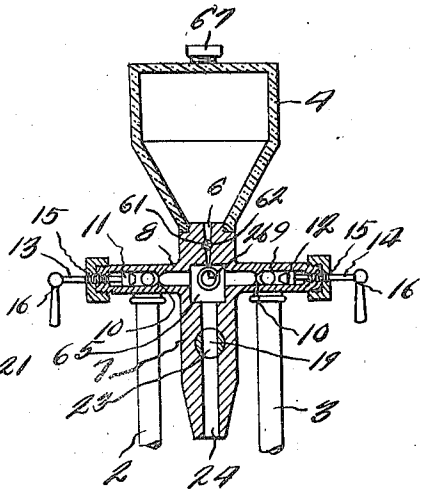


Fig. 3.

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OTIS D. BUTLER, OF INDEPENDENCE, OREGON.

MEDICAL-LIQUID-DELIVERER ATTACHMENT FOR WATER-PIPES OF BATH-TUBS.

1,264,772. Specification of Letters Patent. Patented Apr. 30, 1918.

Application filed November 29, 1916. Serial No. 134,175.

To all whom it may concern:

Be it known that I, OTIS D. BUTLER, a citizen of the United States, residing at Independence, in the county of Polk, State of Oregon, have invented a new and useful Medical-Liquid-Deliverer Attachment for Water-Pipes of Bath-Tubs; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to the art of water distribution, and particularly to a bath tub and shower attachment therefor, whereby ordinary shower baths may be taken, and particularly medicinal baths.

One of the objects of the invention is to provide a glass reservoir, adapted to contain some suitable medicinal liquid, liquid soap with or without medicinal properties, or perfume, and designed to be forced into the water by means of an air pump, or by any other suitable means.

Another object of the invention is to provide a device of this kind for insuring sanitary medical treatments.

In practical fields, the details of construction may necessitate alterations falling within the scope of what is claimed.

The invention comprises further features and combination of parts, as hereinafter set forth, shown in the drawings and claimed.

In the drawings:—

Figure 1 is an enlarged detail perspective view of the medical bath attachment for bath tubs.

Fig. 2 is an enlarged detail sectional view through Fig. 1.

Fig. 3 is a sectional view on line 3—3 of Fig. 2.

Referring more especially to the drawings, 1 designates the upper portion of the bath tub, which has a passage 36 about its upper marginal edge, and 2 and 3 designate the hot and cold water supply pipes for the bath tub. Arranged at one end of the tub is a glass reservoir or container 4, which may be constructed of glass or any other suitable material, and is designed to receive any suitable medicinal liquid, medical soap liquid, perfume, or the like. Carried by the reservoir or container is a suitable force pump 5, whereby said medicinal liquid or the like may be forced out through the restricted passage 6 of the neck 7 of said container or reservoir. Projecting laterally from the neck 7 in opposite directions, are tubular arms 8 and 9, with the interiors of which the hot and cold water pipes 2 and 3 communicate. The interiors of the arms 8 and 9 have valve seats 10, with which the valves 11 and 12 coöperate, for controlling the hot and cold water into and through the neck 7. The stems 13 and 14 of said valves 11 and 12 are threaded through the caps 14, which in turn are threaded upon the extremities of said tubular arms 8 and 9. The stems 13 and 14 of said valves 11 and 12 are provided with the usual handles 16. The neck 7 is provided with a tubular extension 17 extending in a plane parallel with the sides of the tub, and arranged in the extension 17 is the stem 18 of the valve 19, there being suitable packing 20 in said extension and surrounding the stem 18, which is provided with a handle 21. A suitable cap 22 is threaded upon the extension 17, to hold the packing 20 in place. The valve 19 is cylindrical, and is provided with a transverse passage 23, which, when the valve is arranged so that said passage extends horizontally, blocks the passage 24 vertically through the neck 7. However, the valve 19 may be adjusted so that the passage 23 may extend vertically, so as to register axially with the upper and lower parts of the passage 24, in which case the bathing fluid or liquid may flow from the lower end of the neck 7, that is, when the valves 11 and 12 are open, and the valve 25 closed. A pipe or tube 26 is threaded at 27 into the neck 7 and is provided with the valve casing 28, having a valve seat 29 for the valve 25, the stem 30 of which is threaded at 31 in the extension 32 of the casing 28, there being a suitable cap 33 threaded on the extension 32 to hold the packing 34 in place. The stem 30 has a hand wheel 35, whereby the valve 25 may be opened or closed.

The wall of the passage 36 of a tube is provided with a threaded opening 37, in which the pipe or tube 26 is threaded, so that the water or medical bathing fluid or both may pass into the passage. The wall of this passage 36 is adapted to be provided with a plurality of apertures (not shown) arranged around the wall of the tub, so that the water or bathing fluid will properly shower upon the occupant of the tub.

The neck 7 is provided with an extension 55 above the extension 17, and in which the valve stem 56 is threaded as shown at 57,

there being a cap 58 on the extension 55 to hold the packing 59 in place. The stem 56 has a hand wheel 60 at one end, and a needle valve 61 at the other end, which needle valve coöperates with the needle valve 63 at 62, for controlling the medical liquid or fluid from the container or reservoir. It is to be observed that when the valve 25 is open, the valve 23 closed, and the valves 11 and 12 open, the hot and cold water are allowed to mix in the chamber 65 of the neck 7, and together with the medicinal fluid from the reservoir circulate through the passage 36 and be sprayed or showered out through the apertures. By closing the valves 25 and opening the valves 23, the hot and cold water, together with the medicinal fluid may be drawn into the bath tub in the usual manner, that is, straight from the neck 7. The reservoir 4 is provided with a flanged opening 66, whereby the reservoir may be refilled, which opening 66 has a closure 67.

The invention having been set forth, what is claimed as new and useful is:—

1. In a medicinal liquid deliverer attachment for water pipes, a medicinal container for a medicinal substance and provided with a tapered lower portion, a casing threaded into the lower tapered portion of the container and provided with a needle valve for controlling the substance into said casing, said casing having a pair of diametrically oppositely disposed laterally extending tubular extensions, hot and cold water pipes connected to and communicating with said tubular extensions, valves in said tubular extensions for controlling said hot and cold water into said casing, an outlet pipe connected to the upper part of the casing and in turn adapted to be connected to a sprayer and provided with a valve to control the outflow of water combined with said medicinal substance, the lower end of the casing having a discharge passage, and a valve for controlling the outflow of water and the medicinal substance through said discharge passage.

2. In a medicinal liquid deliverer attachment for water pipes, a container, a casing detachably connected to the lower end of the container and provided with a mixing chamber and a discharge passage extending down from said chamber, said casing having a passage of communication between the mixing chamber and the container, a needle valve operating across said passage of communication for controlling a medicinal substance from the container to the chamber, said casing having a pair of laterally protruding tubular extensions communicating with diametrically opposite portions of said chamber, hot and cold water pipes connected to and communicating with said tubular extensions respectively, valves in said extensions for controlling the hot and cold water, an outlet pipe connected to the casing and in communication with the chamber and provided with a valve for controlling the outlet of said water and medicinal substance, a valve for controlling the water and medicinal substance through the first named discharge passage, and means mounted on and in communication with the interior of the container for forcing said medicinal substance into said chamber when said controlled valve thereof is open.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

OTIS D. BUTLER.

Witnesses:
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