Feb. 3, 1925. 1,525,237

F. O. HILFIKER

BATH SPRAY

Filed April 13, 1921 2 Sheets-Sheet 1

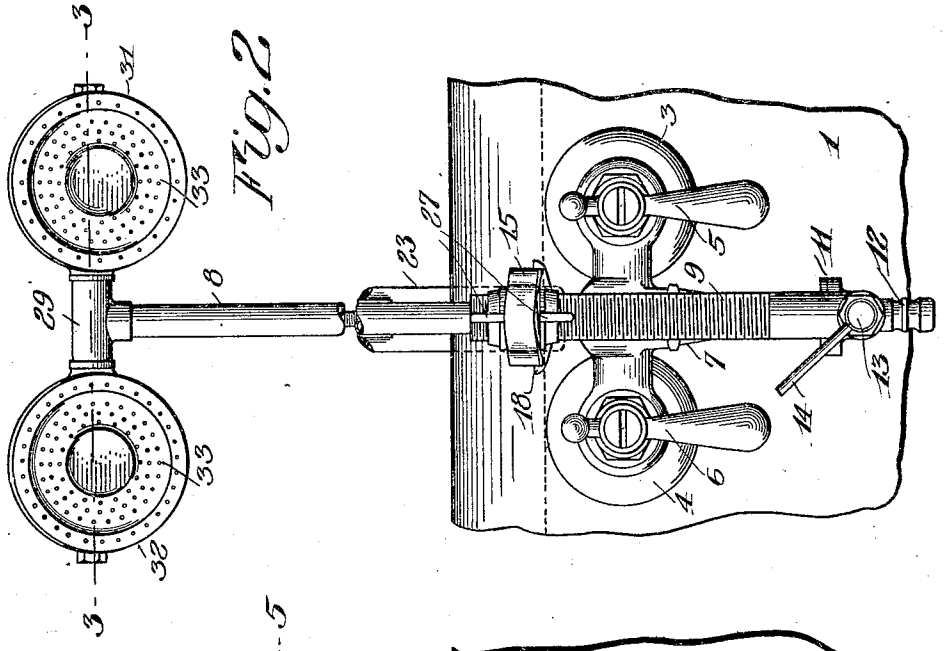


Fig. 2

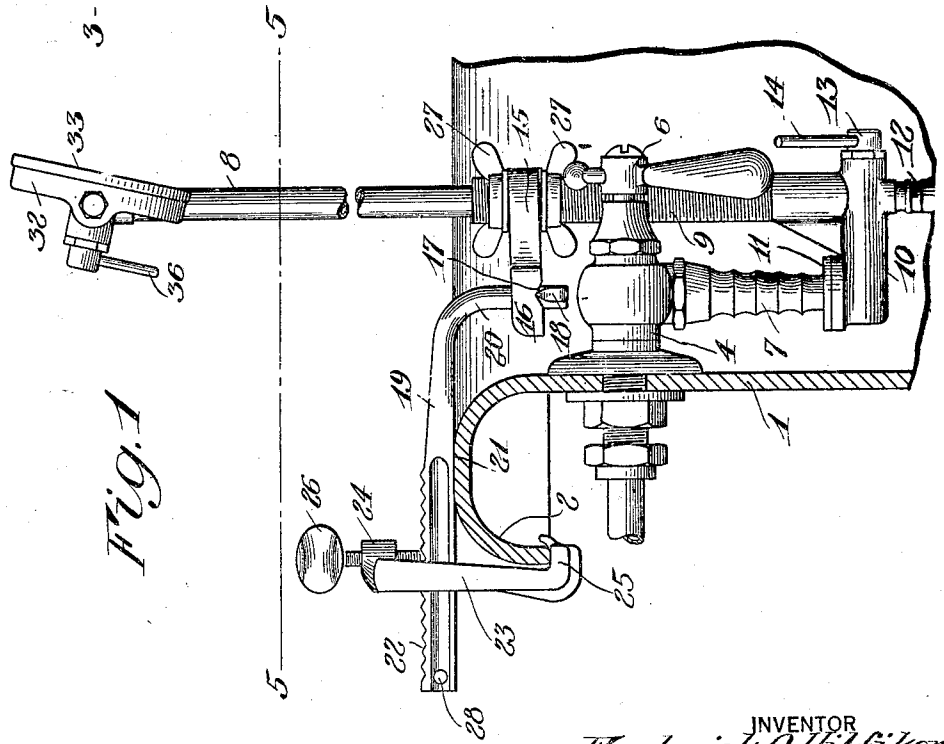


Fig. 1

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Fig. 3

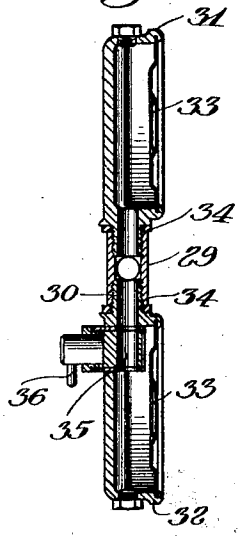


Fig. 4

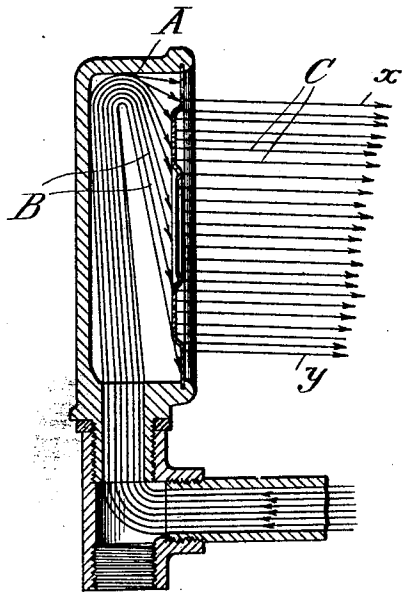
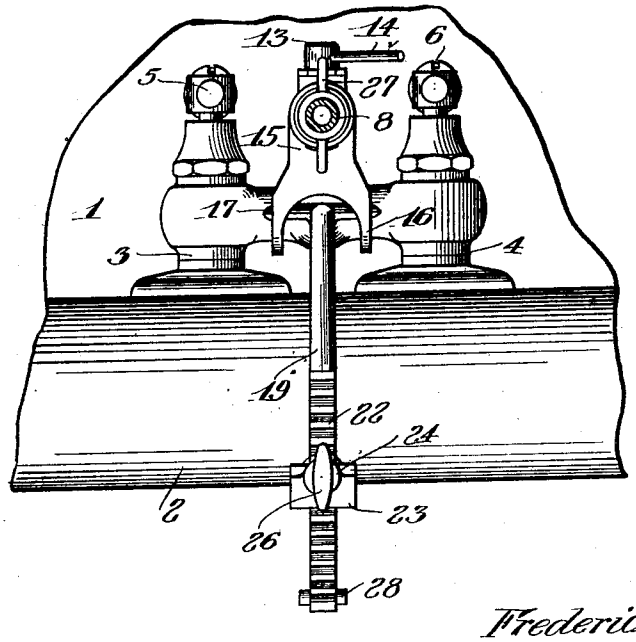


Fig. 5



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UNITED STATES PATENT OFFICE.

FREDERICK O. HILFIKER, OF ROCHESTER, NEW YORK.

BATH SPRAY.

Application filed April 13, 1921. Serial No. 461,057.

To all whom it may concern:

Be it known that I, FREDERICK O. HILFIKER, of Rochester, in the county of Monroe and State of New York, have invented certain new and useful Improvements in Bath Sprays; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming a part of this specification, and to the reference numerals marked thereon.

My present invention relates to bathing appliances, and more particularly to bath sprays in the nature of shower baths, and it has for its object to provide a simple, cheap and convenient shower bath attachment that may be readily applied to the ordinary bath tub in connection with the usual faucet, and easily and quickly applied to or detached therefrom. The improvements are directed in part toward the means for securing the device in proper position on the tub and faucet and toward so constructing the roses or spray heads that they will not be apt to direct the stream in such fashion as to fall outside of the confines of the tub. To these and other ends the invention consists in certain improvements and combinations of parts, all as will be hereinafter more fully described, the novel features being pointed out in the claims at the end of the specification.

In the drawings:

Figure 1 is a side view of a bath spray constructed in accordance with and illustrating one embodiment of my invention, the same being shown mounted upon a bath tub and faucet and the bath tub being shown in section and partly broken away.

Figure 2 is a front view thereof.

Figure 3 is a section on the line 3—3 of Figure 2.

Figure 4 is an enlarged central section through one of the roses, and

Figure 5 is a plan view in section on the line 5—5 of Figure 1.

Similar reference numerals throughout the several views indicate the same parts.

I have illustrated my invention in connection with an ordinary type of porcelain enameled steel bath tub having a downwardly rolled flange or rim 2 and fitted with a faucet comprising hot and cold inlet pipes 3 and 4 controlled by valve handles 5 and 6 and discharging jointly through a common downwardly directed nozzle 7 close to one wall of the tub. My attachment in the present embodiment of the invention comprises a vertically arranged supply pipe 8 that is preferably positioned in front of the faucet and between the handles 5 and 6. The lower portion of the supply pipe is enlarged and threaded as at 9, and below this threaded portion is a rearwardly extending lateral 10 terminating in a horizontally disposed rubber or similar seat 11, that is adapted to be pressed upwardly and make a detachable but fluid tight connection with the nozzle 7. Below the lateral 10 the supply pipe is fitted with a nozzle 12 and through the medium of a valve 13 controlled by a handle 14. The discharge from the faucet nozzle 7 may be selectively directed either directly into the tub through the nozzle 12 or upwardly through the supply pipe 8, the valve being a two-way valve so that one of these outlets is closed when the other is open. The details of this arrangement are not shown because immaterial to the present invention.

Loosely fitting the threaded portion 9 of the supply pipe to slide vertically thereon and also rotate is an arm 15 carrying a yoke shaped or bifurcated rearward extension 16, preferably provided with notched seats 17 on its under side. These seats are occupied (Figre 5) by the T-shaped head 18 of lever 19 having a downwardly turned end 20 passing through the yoke 16. This lever 19 rests upon the rim of the tub as a fulcrum at 21 and beyond this fulcrum point it is serrated on its upper side as at 22. Such portion of the lever is straddled by the two jaws 23 of a clamp 24 having hooks 25 at their lower ends to lock over the edge of the tub, as clearly shown in Figure 1. A thumb screw 26 threaded through the clamp at the top engages the serrated portion of the lever at one point or another according to the size and form of the tub and the characteristics of the faucet and by tightening this thumb screw the lever is depressed to exert an upward pull at its opposite end where its T head 18 engages beneath the arm 15. This arm 15 is adjustably locked to the supply pipe 8 by winged nuts 27 engaging one above and the other below, and it will be seen that by properly adjusting these nuts to give the proper elevation to the arm 15 in connection

with the application of pressure on the clamp 24 the attachment may be secured to the faucet in a way that draws the seat 11 tightly against the faucet nozzle 7. A suitable stop pin or abutment 28 is provided on the end of the lever 19 to prevent the clamp 24 from slipping off the end thereof.

At the upper end of the supply pipe 8 is a T 29 into the laterals of which are threaded the nipples 30 of a pair of roses 31 and 32 having perforated heads 33 directed toward the interior of the tub. These roses may be rotatably adjusted on the threads to give them the inclined position of Figure 1 or the straight vertical positions of Figure 3, rather heavy compressible washers 34 being provided on the nipples to permit this slight loosening or tightening without leakage or binding. The nipple of the rose 32 is fitted with a valve 35 under the control of a handle 36 whereby this rose may be closed against water from the supply pipe and the other rose 31 used alone, or both may be used together as desired.

It will be noted that the inlet for each rose is lateral and horizontal in a direction parallel with the perforated head 33 instead of being from the rear directly against the head as is usual. The water entering in this way travels diametrically across the rose until it strikes the opposite wall, indicated at A in Figure 4. It is deflected by this wall as shown by the arrows B back against the head 33 at an acute angle and toward the medium line of the tub. The result is that as the needle streams indicated by the arrow C in Figure 4 emerge from the head they also have an inward tendency so that they incline away from the sides of the tub and toward the center thereof. With both roses in use the sprays therefrom therefore converge though they do not cross but in each case the extreme lateral streams are so disposed that they are not apt to miss the interior of the tub and fall upon the floor outside. It will also be noted that these lateral streams C indicated at x in Figure 4 have greater convergence than the inner streams indicated at y due to a reduction in the inertia of the deflected stream as it passes across the head 33. This is as it should be inasmuch as the more central streams should pass directly toward the person occupying the tub.

I claim as my invention:

1. In a bath spray, the combination with a rose and a supply pipe connected thereto, of a faucet connection on the supply pipe comprising a lateral provided with a seat for the faucet, an arm above the seat, a lever engaging the arm and adapted to rest upon the rim of a bath tub as a fulcrum, and a clamp on the lever on the opposite side of the fulcrum adapted to engage beneath the rim of the tub and raise the seat against the faucet.

2. In a bath spray, the combination with a rose and a supply pipe connected thereto having a threaded portion, of a faucet connection on the supply pipe comprising a lateral provided with a seat for the faucet, an arm slidable on the supply pipe above the seat, a pair of nuts on the threaded portion of the supply pipe arranged on opposite sides of the arm to adjust the latter and hold it in position, a lever engaging the arm and adapted to rest upon the rim of a bath tub as a fulcrum, and a clamp on the lever on the opposite side of the fulcrum adapted to engage beneath the rim of the tub and raise the seat against the faucet.

3. In a bath spray, the combination with a rose and a supply pipe connected thereto, of a faucet connection on the supply pipe comprising a lateral provided with a seat for the faucet, an arm above the seat, a lever engaging the arm and adapted to rest upon the rim of a bath tub as a fulcrum, and a clamp adjustably mounted on the lever on the opposite side of the fulcrum adapted to engage beneath the rim of the tub and raise the seat against the faucet, the lever being serrated to maintain the clamp thereon at a selected point.

FREDERICK O. HILFIKER.