W. G. NEWTON.

COMBINED DESCENDING SHOWER AND SHAMPOO FIXTURE FOR SHOWER BATHS.

APPLICATION FILED APR. 4, 1907.

901,728. Patented Oct. 20, 1908.

Fig. 1

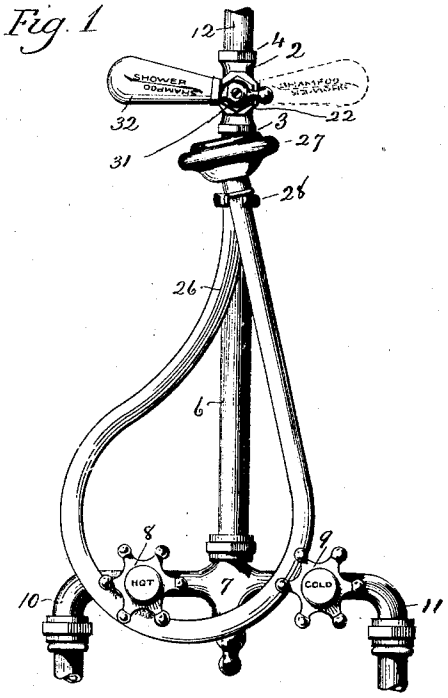


Fig. 2

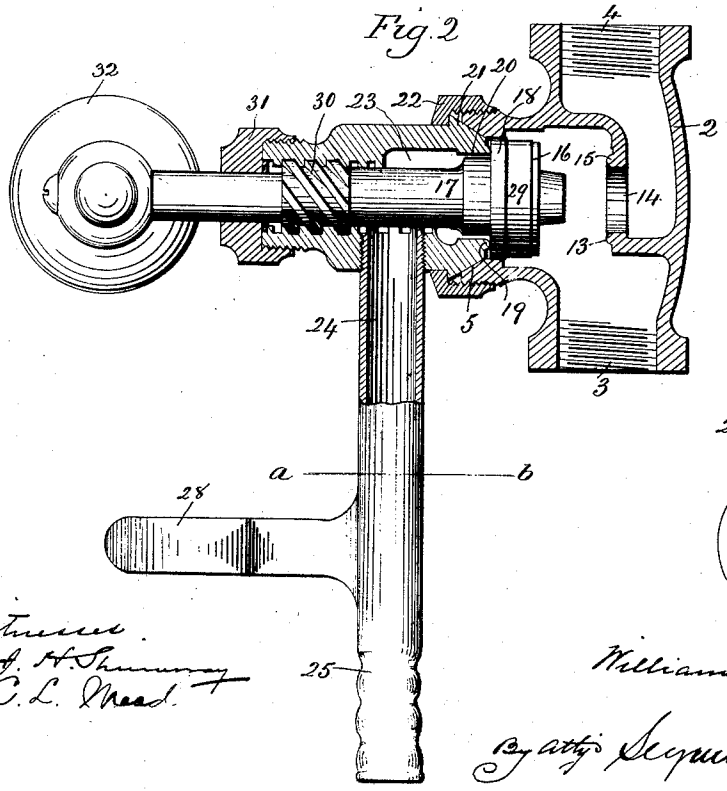
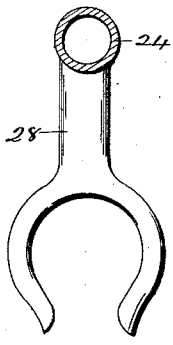


Fig. 3



Witnesses.
J. H. Shumway
C. L. Mead

William G. Newton.
Inventor.
By atty's Seymour & Coe

UNITED STATES PATENT OFFICE.

WILLIAM G. NEWTON, OF NEW HAVEN, CONNECTICUT, ASSIGNOR TO THE PECK BROS. & CO., OF NEW HAVEN, CONNECTICUT, A CORPORATION.

COMBINED DESCENDING-SHOWER AND SHAMPOO FIXTURE FOR SHOWER-BATHS.

No. 901,728. Specification of Letters Patent. Patented Oct. 20, 1908.

Application filed April 4, 1907. Serial No. 366,311.

To all whom it may concern:

Be it known that I, WILLIAM G. NEWTON, a citizen of the United States, residing at New Haven, in the county of New Haven and State of Connecticut, have invented a new and useful Improvement in a Combined Descending-Shower and Shampoo Fixture for Shower-Baths; and I do hereby declare the following, when taken in connection with the accompanying drawings and the letters of reference marked thereon, to be a full, clear, and exact description of the same, and which said drawings constitute part of this specification, and represent, in—

Figure 1 a broken view in front elevation of a combined descending shower and shampoo fixture constructed in accordance with my invention. Fig. 2 a view of the valve-body in vertical section, but showing the fixed shampoo tube and the handle in elevation. Fig. 3 a view in horizontal section on the line *a*—*b* of Fig. 2 showing the shampoo-rose holder upon the fixed shampoo tube.

My invention relates to an improvement in a combined descending shower and shampoo fixture for shower baths, the object being to produce a simple, compact and convenient fixture in which the descending shower and the shampoo are controlled by a single handle.

With these ends in view my invention consists in a fixture having certain details of construction as will be hereinafter described and pointed out in the claims.

In carrying out my invention I employ a valve-body 2 having an inlet and two outlets, viz., an inlet 3 located at its lower end, a vertical shower-outlet 4 located at its upper end and a lateral shampoo-outlet 5 located upon its front face. The said inlet 3 is threaded for the reception of the threaded upper end of the mixing-column 6 which rises from a mixing-chamber 7 to which hot and cold water are supplied respectively by hot and cold water valves 8 and 9 having the usual hot and cold water connections 10 and 11, all of these parts, barring the said valve-body 2, being of any approved construction and arrangement. The outlet 4 receives the lower end of the shower tube 12 which leads upward to a rain shower not shown but of any approved form. The said valve-body 2 contains a winding partition 13 separating the inlet 3 and the shower-outlet 4 and provided with a shower-port 14 encircled by an annular valve-seat 15 in the vertical plane and co-acting with a shower-valve packing-washer 16 mounted upon the inner end of a horizontal spindle 17 also carrying a shampoo-valve packing-washer 18 co-acting with an annular valve-seat 19 located in the vertical plane and encircling a shampoo-port 20 formed in and concentric with the beveled inner end of a bonnet 21 mounted in the shampoo-outlet 5 and held in place therein by a union nut 22. The said shampoo-port 20 leads into the chamber 23 in the bonnet 21, while the chamber 23 opens into a depending fixed shampoo tube 24 screwed at its upper end into the bonnet and having its lower end corrugated as at 25 for the application of a rubber shampoo tube 26 which terminates in an ordinary rose 27. As shown the tube 24 is formed with an integral forwardly projecting fork-like rose-holder 28 from which the rose is suspended when not in use, as shown in Fig. 1.

The washers 16 and 18 are located upon the opposite sides of a disk 29 located upon the inner end of the spindle 17 which is formed with quick threads 30 taking into corresponding threads in the outer end of the bonnet which is furnished with an ordinary packing nut or gland 31 through which the outer end of the spindle projects for the application of a lever handle 32 which might, of course, be replaced by a wheel handle. The said threads 30 are pitched to give a rapid longitudinal movement of the spindle 27 when turned by the handle 32 so that when the handle is turned from the limit of its movement in one direction to the limit of its movement in the opposite direction, the spindle will be moved longitudinally far enough to bring one or the other of its two washers 16 or 18 into play. Thus, if the handle 32 is turned from its "shower" position at the left into its "shampoo" position at the right, the spindle will be moved far enough inward to seat the washer 16 upon the shower valve-seat 15 whereby the entire body of water entering through the port 3 will be diverted through the shampoo port 20 and chamber 23 into the fixed shampoo tube 24. On the other hand when the handle is turned from its "shampoo" position at the right to its "shower" position at the left, the spindle will be correspondingly moved outward so as to seat the washer 18 upon the

shampoo valve-seat 19, whereby all of the water entering the inlet 3 will be diverted through the shampoo port 14 to the outlet 4, and hence into the shower tube 12 by which it is led to the rain shower. It will thus be seen that in one movement of the handle 2 the user at his option secures at his will a descending shower or shampoo.

I claim:—

1. In a combined descending shower and shampoo fixture, the combination with hot and cold water valves, and hot and cold water connections therefor, of a mixing-chamber located between the said valves and connected therewith, a mixing-column rising from the said mixing-chamber, a shower-tube extending upward above the said mixing-column, a vertically arranged valve-body interposed between the upper end of the said column and the lower end of the said tube and having a downwardly opening inlet for the reception of the upper end of the said column, an upwardly opening shower-outlet for the reception of the lower end of the said tube, and a lateral shampoo-outlet; a horizontally arranged bonnet applied to the said shampoo-outlet, a depending shampoo-tube made independently of the said bonnet and having its upper end entered thereinto between the ends thereof, a horizontally arranged valve-spindle passing through the said bonnet, a lever-handle at the outer end of the spindle, packing washers located at the inner end thereof, and quick threads upon the spindle taking into corresponding threads in the bonnet and pitched so that a half turn of the lever-handle will shift the washers for diverting the water from one outlet to the other.

2. In a combined descending shower and shampoo fixture, the combination with hot and cold water valves and hot and cold water connections therefor, of a mixing-chamber located between the said valves and connected therewith, a mixing-column rising from the said mixing-chamber, a shower-tube extending upward above the said mixing-column, a vertically arranged valve-body interposed between the upper end of the said column and the lower end of the said tube and having a downwardly opening inlet for the reception of the upper end of the said column, an upwardly opening shower-outlet for the reception of the lower end of the said tube, a bonnet applied to the said shower-outlet of the body, a valve-spindle mounted in the bonnet, and a depending shampoo tube having its upper end entered into the said bonnet between the ends thereof, having its lower end adapted for the application to it of a rubber tube and furnished with a forwardly projecting fork-like shampoo-rose holder fixed in a horizontal plane.

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

WILLIAM G. NEWTON.

Witnesses:

T. S. COLEMAN,

E. A. WRIGHT.