No. 727,993. PATENTED MAY 12, 1903.

T. L. NEWPORT.

BATH BRUSH.

APPLICATION FILED OCT. 24, 1902.

NO MODEL.

Fig. 1.

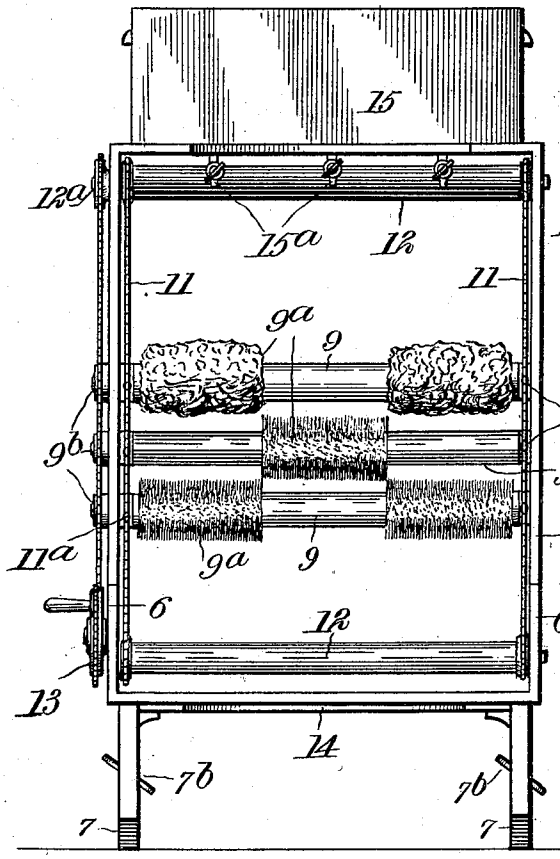
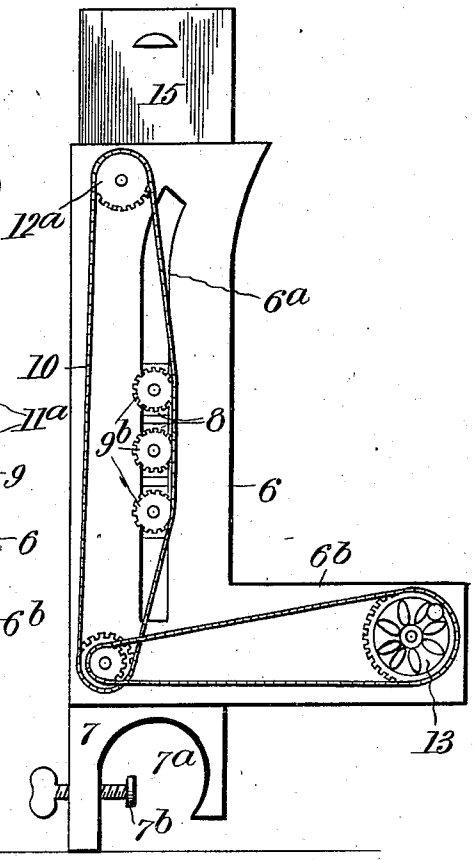


Fig. 2.



Witnesses

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No. 727,993. Patented May 12, 1903.

UNITED STATES PATENT OFFICE.

THOMAS L. NEWPORT, OF SAN FRANCISCO, CALIFORNIA.

BATH-BRUSH.

SPECIFICATION forming part of Letters Patent No. 727,993, dated May 12, 1903.

Application filed October 24, 1902. Serial No. 128,563. (No model.)

To all whom it may concern:

Be it known that I, THOMAS L. NEWPORT, a citizen of the United States, residing at San Francisco, in the county of San Francisco and State of California, have invented certain new and useful Improvements in Bath-Brushes; 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, reference being had to the accompanying drawings, and to the figures of reference marked thereon, which form a part of this specification.

This invention relates particularly to bath-brushes designed for use in connection with a bath-tub to enable the bather to wash and scrub his back conveniently and thoroughly.

Broadly speaking, the machine consists of a frame attachable to a bath-tub and rotating brushes or their equivalents supported on the frame, which brushes have in addition to their rotation a reciprocating movement up and down the user's back.

An embodiment of the invention is illustrated in the accompanying drawings, in which—

Figure 1 is a front elevation, and Fig. 2 is a side elevation.

Referring specifically to the drawings, 6 indicates a rectangular frame supported upon legs 7, which are properly recessed, as at 7^a, to take the rim of a bath-tub and be clamped thereto by the screws 7^b, so that the frame will stand substantially upright or vertical. The sides of the frame have guides 6^a formed therein for the sliding blocks 8, in which the rollers 9 are journaled. These rollers bear brushes, sponges, or the equivalent (indicated at 9^a) and are rotated by a chain 10, engaging sprocket-wheels 9^b on one end of the rollers. The location of the chain and guides is such that the sprockets continue in engagement with the chain during the up-and-down movement of the blocks in the guides. Said movement is produced by sprocket-chains 11, to which the blocks are connected, as by pins 11^a. These chains pass around sprockets on the upper and lower rollers 12, the former of which has a sprocket 12^a, driven by the chain 10, which in turn is driven by chain and sprocket from the crank-wheel 13, journaled on a stub projecting from an extension 6^b from the frame. The purpose of the extension is to bring the hand-crank conveniently beside the user as he sits with his back to the brushes. 14 indicates a sliding seat, which may be drawn in or out when out of or in use accordingly.

15 indicates a water-tank on the top of the frame, having several cocks 15^a properly positioned to supply streams of water to the brushes.

In operation the crank is turned in one direction until the rollers slide to one end of the guides. Then the crank is turned in the other direction to slide them to the other end, and at the same time the rollers and brushes revolve against the back of the user. The reciprocating motion is given to the rotating brushes by means of the hand-crank and the chains 11, to one run of which the bearing-blocks of the rollers are attached. These chains are operated by sprockets of the roller 12, as above stated, and this roller is turned by the chain-and-sprocket gearing from the hand-crank. When the crank is turned in one direction, the roller 12 will turn in one direction and pull the blocks either up or down. When the blocks reach the ends of the guides, the crank is and must be reversed, which causes the roller 12 to turn in the opposite direction and bring the rollers to the other end of the guides.

What I claim as new, and desire to secure by Letters Patent, is—

1. The combination with the frame having guides, and pulleys at top and bottom of the guides of blocks slidable in the guides, belts attached to the blocks and extending over the pulleys, rotary scrubbers journaled in the blocks, and means to rotate the scrubbers and the pulleys, substantially as described.

2. The combination with an upright frame having guides, and a seat and a projection beside the seat, at the bottom of the frame, of rotatable brushes in the frame, slidable in the guides, a hand-crank journaled on the projection, and belt-and-pulley devices transmitting motion from the crank to the brushes, substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

THOMAS L. NEWPORT.

Witnesses:
DANIEL SULLIVAN,
F. W. REYNOLDS.