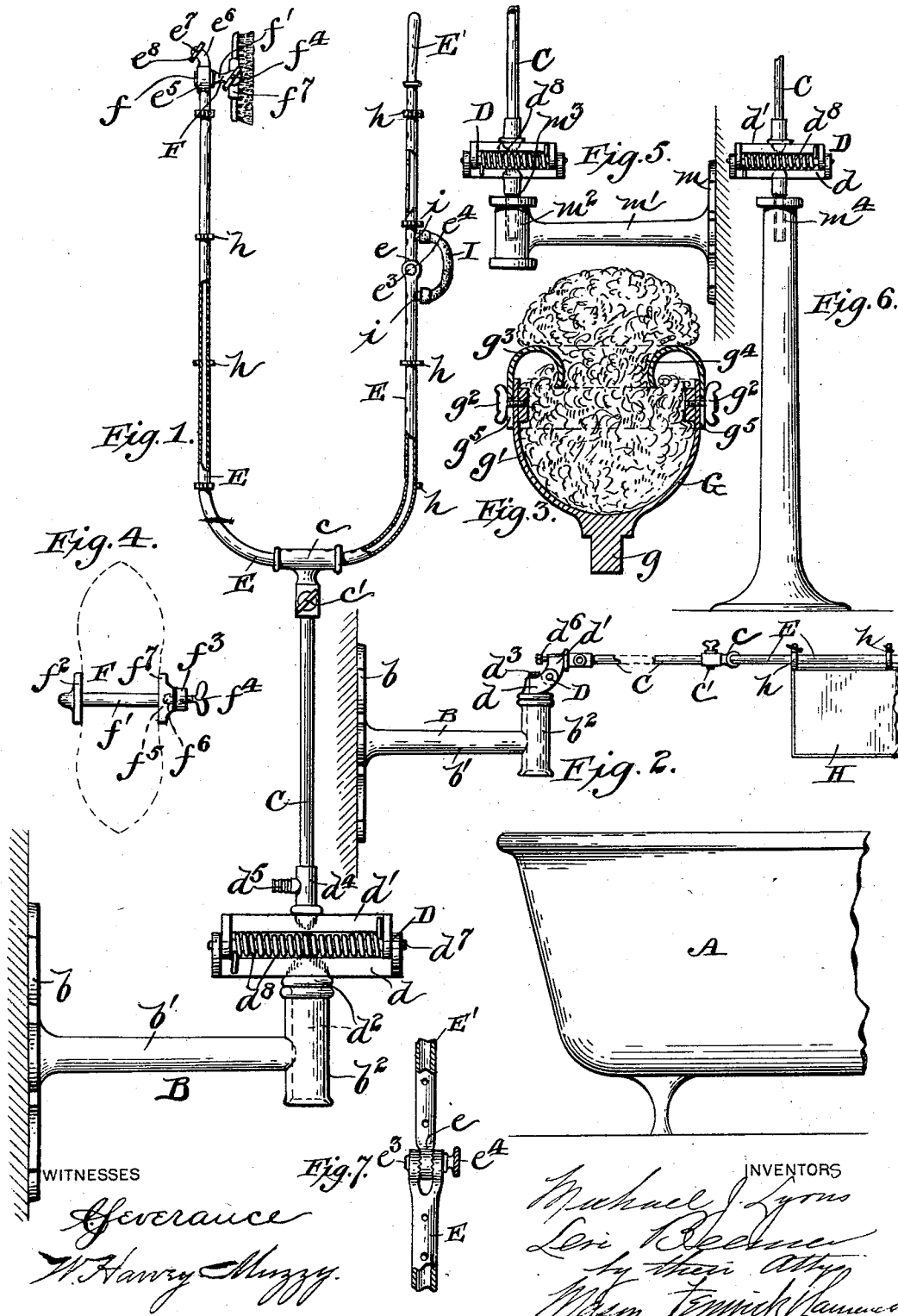


(No Model.)

M. J. LYONS & L. BEEMER.
BATH APPARATUS.

No. 558,292.

Patented Apr. 14, 1896.



UNITED STATES PATENT OFFICE.

MICHAEL J. LYONS AND LEVI BEEMER, OF DULUTH, MINNESOTA, ASSIGNORS
TO MARTIN EMERICH, OF CHICAGO, ILLINOIS.

BATH APPARATUS.

SPECIFICATION forming part of Letters Patent No. 558,292, dated April 14, 1896.

Application filed July 8, 1895. Serial No. 555,277. (No model.)

To all whom it may concern:

Be it known that we, MICHAEL J. LYONS and LEVI BEEMER, citizens of the United States, residing at Duluth, in the county of St. Louis and State of Minnesota, have invented certain new and useful Improvements in Bath Apparatus; and we 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.

Our invention relates to improvements in bath-brush apparatus, and is an improvement on Patent No. 544,362, granted August 13, 1895, and pending application, Serial No. 541,477, filed March 11, 1895, both of Michael J. Lyons.

The invention consists of the combination of a suitable support, a hollow lever pivotally mounted on the same and having a water-inlet and suitable spraying-outlets, a scrubbing device—for instance, a brush or sponge—mounted on said lever, and a handle for operating said lever.

It also consists of the combination of a suitable support, a hollow lever pivotally connected thereto and provided at its outer end with a hollow perforated yoke, a spring connecting said lever and said support whereby the former moves under spring-tension, a scrubbing device on one arm of said yoke, and an operating-handle on the other.

It also consists of certain other novel constructions, combinations, and arrangements of parts, all of which will be hereinafter more particularly set forth and claimed.

In the accompanying drawings, forming part of this specification, Figure 1 represents a side elevation of the devices embodying our invention, the yoke being raised to an upright, or nearly so, position. Fig. 2 represents a side elevation of the same placed in proximity to a bath-tub, the yoke being lowered to a horizontal position. Fig. 3 represents a detail central vertical section through the sponge-holder. Fig. 4 represents a detail top plan view of the brush-clamp. Fig. 5 represents a modified form of bracket-support. Fig. 6 represents a support in form of a standard, and Fig. 7 represents a detail

side elevation of the milled joint between the operating-handle and the outer end of the yoke.

A in the drawings represents a bath-tub; B, the supporting-bracket of our apparatus; C, the hollow yoke-carrying lever; D, the hinge between the bracket and the said lever, and E the hollow perforated yoke.

The supporting bracket or standard B comprises a suitable attaching-plate *b*, an arm *b'*, rigid therewith, and a hollow vertical head *b²* at the outer end of said arm. The hinge D is composed of two segmental members *d* and *d'*. The member *d* is provided with a hollow stem *d²*, which passes loosely through the hollow cross-head *b²* and is slightly flared at its end to prevent its pulling out of the same. It is also provided with a rubber buffer *d³*, the office of which will be hereinafter described.

The member *d'* is similar in shape to the member *d* and is provided with a screw-threaded lever-attaching stem *d⁴*, having a water-supply-pipe nipple *d⁵*. Said member is also provided with an adjustable stop screw or bolt *d⁶*, which is adapted to come in contact with the buffer *d³* and thus limit the movement of said hinge. The two members *d* *d'* are connected by a bolt *d⁷*, which passes loosely through their respective ends and is suitably secured in position. A spiral spring *d⁸* surrounds this bolt and bears with one end upon the member *d* and with the other upon member *d'*, so that any hinge movement of said members is under spring-tension.

The hollow lever C is screwed into the stem *d⁴* at one end and is provided at the opposite end with a T-pipe joint *c*, having a cock *c'* therein. The respective halves of the hollow yoke E are secured in the ends of the T-joint *c*. Said yoke E and the joint *c* are provided in their sides with perforations through which the water escapes in streams, thus forming a shower-bath. The outer closed end of one arm of the yoke is enlarged and apertured at *i*, as is also the closed end *e* of the handle E', as indicated by the letter *i*, apertured ends being milled on their inner faces and secured together by a bolt and thumb-screw *e³* *e⁴*, respectively.

It will be seen from the foregoing that the

handle can be turned or adjusted on the bolt e^3 by loosening the thumb-screw e^4 and locked in the desired adjusted position by again tightening the thumb-screw. Both the handle and the end of the yoke carrying the same are provided around the perforations with nipples i , which are connected by a flexible pipe l , so that water is carried from the hollow yoke to the hollow handle. The other arm of the yoke is provided with an enlarged apertured split head e^5 , provided with lugs e^6 , said lugs being secured together by a bolt e^7 and thumb-nut e^8 .

A scrubbing-brush support F is adapted to be mounted in the split head e^5 by means of a stud f with which it is provided. This support consists of a yoke-shaped piece f' , to the middle of which said stud is attached. The respective ends of the yoke are provided with blocks $f^2 f^3$. The block f^3 is provided with a screw-threaded aperture, through which a clamping thumb-bolt f^4 is passed. This bolt is formed at its inner end f^5 approximately ball shape and fits into a corresponding socket f^6 in a clamping-block f^7 .

It will be seen from the foregoing that the block f^7 can have a swivel movement against the brush that is clamped between it and the block f^3 , so as to accommodate itself to the side of said brush.

A sponge-cup G is also adapted to be mounted in the split head e^5 by means of a stud g with which it is provided. The cup comprises a shallow oval cup or receptacle g' , provided near its upper end with thumb-screws g^2 , by which a cap g^3 is secured in position. This cap is provided with a central aperture g^4 and side slots g^5 , the better to allow said cap to be slipped down over the top of the cup after the sponge has been placed in position. After the cap has been secured by the thumb-screws g^2 the sponge is pulled partly through the aperture g^4 , so as to protrude in front of the cap.

The arms of the yoke are provided with short pendent flexible aprons H , secured thereto by clamps h , the outer edges or margin of said aprons being provided with a stiffening of wire, so that they will remain always in the proper position to prevent the spray from the opposite side of the yoke from being thrown onto the floor or the walls. Any suitable water-supply pipe is attached to the nipple d^3 .

In the modified form of support shown in Fig. 5 the bracket comprises a plate m and an arm m' secured thereto and provided with a socketed enlargement m^2 at its outer end. The hinge in this case is provided with a stud m^3 , which fits down within the socketed enlargement m^2 and thus permits the apparatus to have the desired lateral swivel movement.

In Fig. 6 we have shown a support in form of a standard, which is formed at its upper end with a suitable socket m^4 for receiving the stud m^3 .

When the device is to be used, the brush or sponge is attached to the arm of the yoke. The bather then turns on the water and places himself between the arms of the yoke and grasps the operating-handle and moves it rapidly up and down with the brush or sponge in contact with his back or sides. The water from the perforated yoke strikes his body on three sides, and thus he is thoroughly washed without any effort on his own part otherwise than to move the yoke up and down.

Having now described our invention, what we claim as new, and desire to secure by Letters Patent, is—

1. In a bath-brush apparatus, the combination of a suitable support, a hollow yoke pivotally mounted on the same and having suitable spray-outlets and a water-inlet, a scrubbing device mounted on one arm of said yoke and a handle for operating said yoke, substantially as described.

2. In a bath-brush apparatus, the combination of a suitable support, a hollow yoke pivotally mounted on the same and having suitable spray-outlets and a water-inlet, a spring connecting said support and said yoke whereby the latter moves under spring-tension, a scrubbing device and an operating-handle on said yoke, substantially as described.

3. In a bath-brush apparatus, the combination of a suitable support, a hollow lever pivoted thereon and having a water-inlet, a hollow perforated yoke connected to said lever, and an operating-handle and scrubbing device on the respective arms of said yoke, substantially as described.

4. In a bath-brush apparatus, the combination with a suitable support, a hollow lever provided with a spring-hinge and a water-inlet, a pin on said hinge engaging said support so that said apparatus has swivel action on said support, a hollow perforated yoke connected to said lever, and an operating-handle and scrubbing device on the respective ends of said yoke, substantially as described.

5. In a bath-brush apparatus, the combination with a suitable support, of a hollow lever pivotally mounted thereon, a hollow perforated yoke on said lever, an operating-handle on one end of said yoke, a detachable sponge-cup adapted to be attached to the other end of said yoke and consisting of a cup having an attaching-stud and an apertured detachable cover adapted to be secured in position on the top of said cup, substantially as described.

6. In a bath-brush apparatus, the combination with a suitable support, of a hollow lever pivotally mounted thereon, a hollow perforated yoke on said lever, an operating-handle on one end of said yoke, and a brush-clamp adapted to be secured to the opposite end of said yoke and consisting of a clamping-yoke having an attaching-stud, a stationary clamp-block and an adjustable clamp-block, substantially as described.

7. In a bath-brush apparatus, the combination of a suitable support, a spring-hinge having swivel connection with the said support, a hollow lever connected to said hinge and
5 provided with a water-inlet, a hollow perforated yoke connected to said lever, pendent aprons on each side of said yoke, and a scrubbing device and operating-handle on the respective arms of said yoke, substantially as
10 described.

In testimony whereof we hereunto affix our signatures in presence of witnesses.

MICHAEL J. LYONS.

LEVI BEEMER.

Witnesses as to Michael J. Lyons:

JAMES T. WATSON,

WM. R. SPENCER.

Witnesses as to Levi Beemer:

CHARLES F. JACOBS,

WM. STUEDEMANN.