J. R. R. MORFORD.

SHOWER-BATHS.

No. 195,523. Patented Sept. 25, 1877.

Fig. 3.

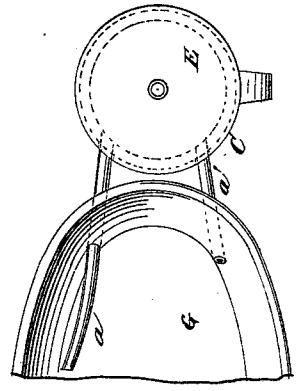


Fig. 2.

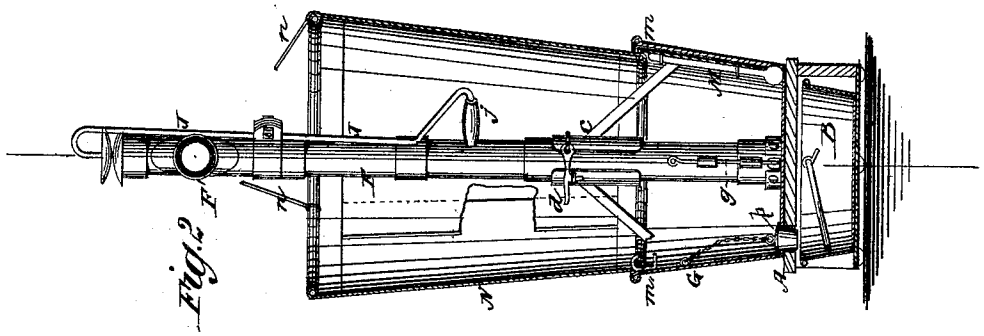
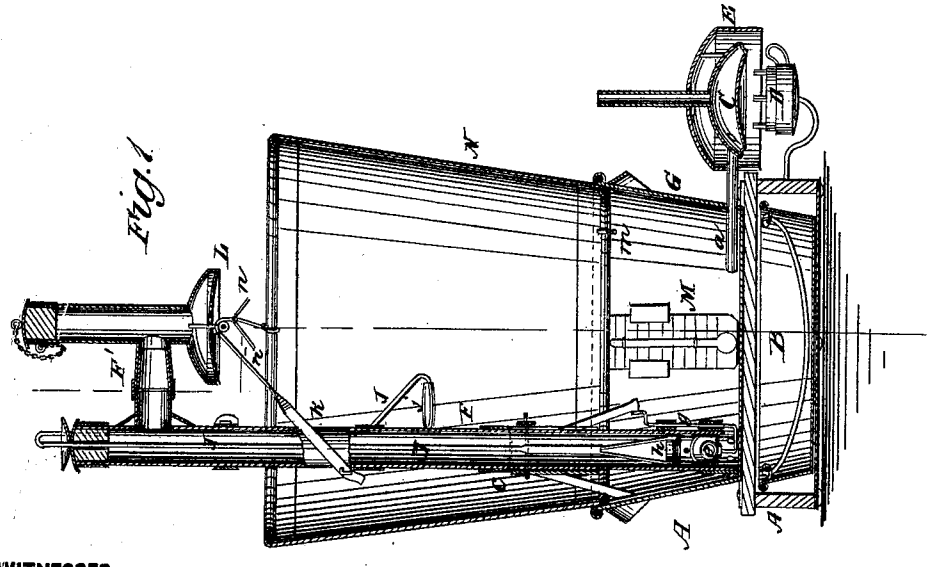


Fig. 1.



WITNESSES:

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UNITED STATES PATENT OFFICE.

JAMES R. R. MORFORD, OF LA HARPE, ILLINOIS.

IMPROVEMENT IN SHOWER-BATHS.

Specification forming part of Letters Patent No. **195,523**, dated September 25, 1877; application filed August 11, 1877.

To all whom it may concern:

Be it known that I, JAMES R. R. MORFORD, of La Harpe, in the county of Hancock and State of Illinois, have invented a new and Improved Shower-Bath, of which the following is a specification:

The invention will first be described in connection with the drawing, and then pointed out in the claim.

In the annexed drawing, Figure 1 is a section taken vertically and longitudinally through the apparatus. Fig. 2 is a section taken vertically and transversely through the apparatus. Fig. 3 is a detail of the heater and its pipes.

Similar letters of reference indicate corresponding parts.

The letter A designates a chest, which is constructed to receive a pan, B, provided with a bail. On top of the chest A is secured a tub, G, of elliptical form, which communicates with a concavo-convex boiler, C, by means of a long pipe, *a*, and a shorter pipe, *a'*. These pipes being of different lengths, they cause a free and rapid circulation of the water between the tub and boiler. Beneath the boiler is a lamp, D, which is inclosed by a jacket, E, that retains the heat about the boiler. F designates a pipe, which may be of any suitable length and diameter, and which is arranged in an upright position at one end of the tub. The lower end of the tube F is received in a cup fixed to the bottom of the tub G, and above this cup, and secured to the tub, is a split tube or socket, *c*, which embraces the tube F, and holds it fast by means of a hook, *d*. At or near the foot of the pipe F is a check-valve, *e*, opening upward, which valve can be kept open by means of a bent lifting-rod, *g*. Above the check-valve *e* is a plunger, *h*, with a valve in it opening upward, which plunger is attached to a rod, J, that passes up through a cap at the upper end of pipe F, and is turned down and provided with a handle, *j*, arranged convenient to a person in the tub.

By giving vertical motion to the rod J and its plunger water will be drawn into the tube F, and forced therefrom through a rose, L. The rose may be of any suitable shape, and it is attached to a branch pipe, F', constructed so that it can be cleaned when necessary. In the center of the rose or sprinkler L is a staple, on which is applied an anti-friction sleeve, over which passes the strap *k*, that is used for raising and lowering a screen, N.

Screen N may be made of any suitable water-proof fabric, and it has hoops secured to its ends and an opening through its side for the entrance and exit of a person. The lower end of the screen is held under hooks *m*, fixed to the tub G, and the upper end of the screen has suspension-cords *n* attached to it, which are fastened to the strap *k*. By these means the screen can be raised and lowered, and when raised it can be held tight.

If desired, a thermometer, M, may be attached to the tub, for indicating the temperature of the water in it.

A hole closed by a plug, *p*, is made through the bottom of the tub and top of the chest A, for drawing water from the tub into the pan B beneath.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

The combination, with the tub G and sprinkler L, of the screen N, hooks *m*, and cords *n k*, substantially as and for the purposes described.

JAMES R. R. MORFORD.

Witnesses:
THEODORE H. STONE,
GEORGE COULSON.