



# UNITED STATES PATENT OFFICE.

WILLIAM CURRAN, OF TOLEDO, OHIO.

## IMPROVEMENT IN DEPURATOR-BATHS.

Specification forming part of Letters Patent No. **180,328**, dated July 25, 1876; application filed May 22, 1876.

*To all whom it may concern :*

Be it known that I, WILLIAM CURRAN, of Toledo, in the county of Lucas and State of Ohio, have invented a new and Improved Depurator-Bath; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawing, forming part of this specification, in which—

Figure 1 is a top-plan view; Fig. 2, a sectional elevation; Fig. 3, an enlarged detail of sliding hose attachment.

The nature of this invention consists in arranging the water or fluid pipes within the reservoir proper, to enable the person bathing to regulate the temperature of bath as desired; secondly, in arranging within the depurator a sliding hose, with nozzle, for bathing the spine region, and which can be operated from within or without the apparatus; thirdly, to certain detail construction of parts to adapt the depurator for hot-air and medicated baths, all of which will now be more fully described.

My improved apparatus consists of a reservoir, A, of metal or wood, lined with metal, constructed so as to partially envelop the patient, and in shape and outline indicated in Figs. 1 and 2, the said form of vessel being specially adapted for hot-air and medicated baths, as will hereinafter appear.

To the body of the vessel A is attached a lid, B, by hinge-joints *b*, a firm joint being made by the flanges of the lid fitting the corresponding flanges of the body of the vessel.

The lid B has a part orifice to form, in conjunction with the part orifice in the top of the vessel A, a head-orifice, C. (See Figs. 1 and 2.) The lid B is further provided with an extension-lid, B', secured adjustably by sliding in guides *b'*, which are secured to the under side of the lid proper; also, said extension-lid B has a smaller part orifice, *c*, and said lid being adjustable, the head-orifice C can readily be adapted to accommodate the patient.

The vessel A is provided with a proper seat, D, upon which the person is seated, his head projecting through the head-orifice C.

Within the vessel, at one side of the seat D, are arranged the water-pipes for water-bath purposes. The pipes consist of the cold and hot water pipes E E'. The pipe E (for cold-

water supply) has a proper stop-cock, *e*, and is made to join the pipe E', which is for hot water. Further, at the top the hot-water pipe E' connects with a distributing-pipe, E<sup>2</sup>, to which the respective hose-pipes F F' are properly attached. To control the distribution of hot or cold water, and to obtain a water-bath of the temperature required, the pipe E<sup>2</sup> is provided with the respective stop-cocks *e'* *e''*. The distributing hose-pipes F F' have each a proper nozzle, *f f'*.

The arrangement of the water-pipes within the depurator, as thus described and shown, enables the patient to completely control the force and otherwise graduate the temperature of bath at pleasure. In order, however, to cause the bath to reach the spine, and especially to enable the patient to concentrate the bath at any length of time to any part of the spine, the hose-pipe F', by its nozzle *f'*, is made to slide, by means of a guide, *f''*, upon a sliding rod secured within the rear part of the vessel. (See Figs. 2 and 3.) The complete regulation of pipes in the depurator being at the control of the bather, the system can thus be greatly benefited with the most efficacious results, as a cold or warm bath can be had to accommodation. The sliding hose F' can also be operated by an attendant from without by the rope attachment *f''*, connecting to the nozzle *f'*, and made to pass over a pulley on top of vessel A. (See Fig. 2.)

The waste is permitted to escape by a proper drop-valve, G, fitting an escape-orifice, *g*, in the bottom of the vessel A, the chain attachment or other similar device being secured to proper knobs at the side of the vessel, and within ready reach of the operator.

In order to adapt the vessel A for hot-air and vapor baths, (as stated to be in the nature of this invention,) the fore part of said vessel *h* is formed with an angle-joint, while the bottom part *h'* is made to incline or slant inward to the bottom proper, as illustrated in Fig. 2. The angle-joint better accommodates the knees and legs of the patient. Chiefly, however, by thus slanting inward the fore part *h'*, the flame from any heating-vessel can be directed to admit the heat close to the bottom of the depurator. For this purpose a suitable valve, *h''*, or screw-plug, is provided

to control the opening  $h^3$ , arranged close to the bottom of the vessel A. (See Fig. 2.)

The lamp or heating apparatus used is placed at the outside, its flame being directed through the aperture  $h^3$ , and thus a hot-air bath is readily obtained.

For medicinal purposes the medicated substance is simply placed within the reservoir, so as to be evaporated by the heat or flame admitted through the aperture. Further, it will be observed that as, by the application of heated air, the capillaries are opened, and the impure matter is permitted to escape the system, the valve-opening  $h^3$  can be closed, and a hot-water bath graduated in temperature to suit can be had, whereby capillary action is established without exposing the bather to outside atmospheric influences.

Having thus described my invention, what I claim as new is—

1. The combination, in a depurator, of a sliding hose-pipe,  $F'$ , adapted to be controlled from within or without the vessel A, substantially as and for the purpose set forth.

2. The depurator vessel or chamber A, constructed so that its fore part  $h^1$  is made to slant inward to the bottom, and having an opening,  $h^3$ , substantially as and for the purpose set forth.

3. The pipes E  $E^1$   $E^2$ , with stop-cocks  $e$   $e^1$   $e^2$ , distributing-hose F, sliding hose  $F'$ , adjustable lid  $B'$ , head-orifice C, in combination with the vessel A, having opening  $h^3$ , all constructed and combined as and for the purpose set forth.

WILLIAM CURRAN.

Witnesses:

D. W. CURTIN,  
C. L. KENNEDY.