March 27, 1928. 1,663,735

L. J. B. TALBOT ET AL

PORTABLE BATH APPARATUS

Filed July 21. 1926

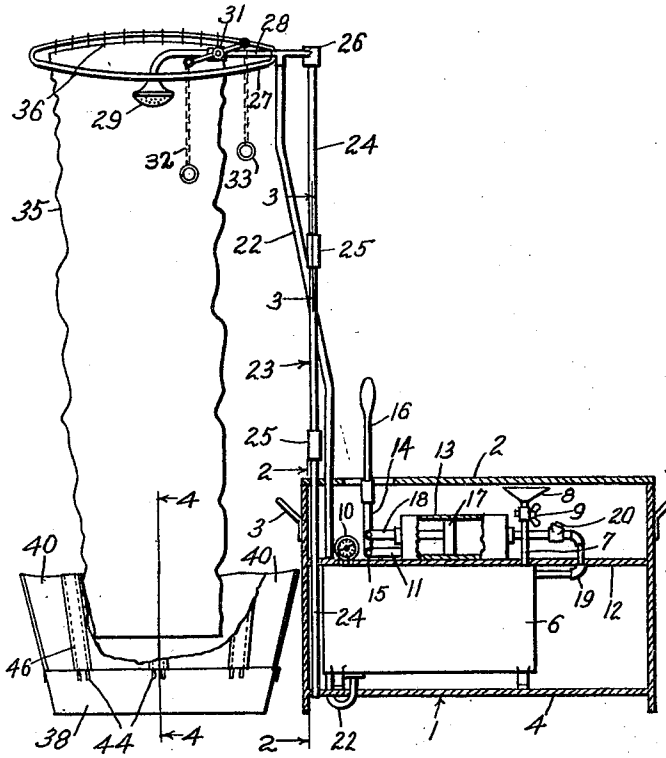


Fig. 1

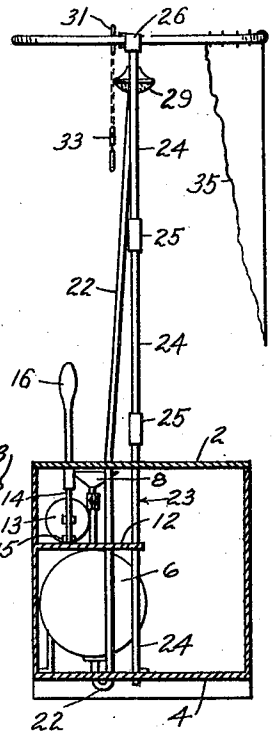


Fig. 2

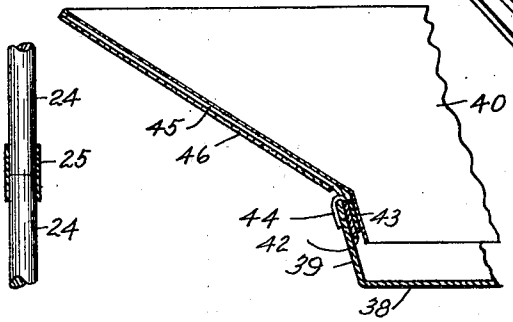


Fig. 3

Fig. 4

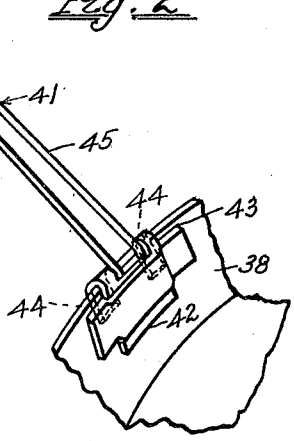


Fig. 5

INVENTORS
Lucian J.B. Talbot
Vital A. Lecuivre
BY Perley H. Plant.
ATTORNEY

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LUCIEN J. B. TALBOT AND VITAL A. LECUIVRE, OF WOONSOCKET, RHODE ISLAND.

PORTABLE BATH APPARATUS.

Application filed July 21, 1926. Serial No. 123,887.

This invention relates to a portable bath structure adapted for use in localities where city water is not available as in camps, cottages and country dwellings.

One object of the present invention is to provide a simple and inexpensive apparatus, of compact form, capable of being easily assembled for use or adapted to be dismantled and the parts disposed in a cabinet when not in use, whereby the apparatus will occupy a minimum amount of space, and present the appearance of an ordinary cabinet when not in use.

Another object of the invention is the provision of simple and efficient mechanical elements and apparatus for a portable and demountable shower bath especially adapted for use in localities where water is not available under pressure, and that without the necessity of providing expensive pumping mechanism or permanent piping.

Other objects of the invention relate to the arrangement of the elements thereof and the method of utilizing the same as will be more particularly pointed out in the detailed description to follow.

Referring to the drawings:

Fig. 1 is a side elevational view of the structure in assembled position, the cabinet being broken away to show the position of certain of the elements and their connecting parts,

Fig. 2 is an elevational view of the apparatus, partially in section, taken along the line 2—2 of Fig. 1,

Fig. 3 is a detail sectional view taken along the line 3—3 of Fig. 1,

Fig. 4 is a detail sectional view taken along the line 4—4 of Fig. 1, and—

Fig. 5 is a perspective view of one of the brackets for attaching the canvas to the pan.

In the embodiment of the invention illustrated herewith 1 designates a cabinet or frame which may be of any desired form and which may be provided with doors suitably arranged in one or more of the sides if desired or which may be in the form of a frame open at the top and sides, but which in the present instance is a closed cabinet provided with a removable cover 2, which instead of being bodily removable may be hingedly connected to the cabinet if found desirable. The cabinet is provided with handles 3 by which it may be readily moved from place to place as desired and has a floor 4 supporting a tank 6 of suitable capacity for containing the desired quantity of water. The tank 6 is provided with an inlet pipe 7, the upper end of which may be somewhat enlarged to receive the reduced end of a funnel 8 whereby water is placed in the tank. The inlet pipe 7 is provided with a valve 9 which may be opened to permit water to be placed in the tank and closed to permit the interior of the tank to be placed under the desired degree of pressure. A pressure gauge 10 may be carried by the tank to indicate to the user when sufficient pressure is applied for forcing the water through the spray tube while at the same time warning against the use of excessive pressure.

A shelf 12 is firmly secured to one side of the cabinet and supports a hand operated air pump 13, actuated by a lever 14 pivoted to a bracket 11 as at 15 and provided with a removable extension 16, the lever actuating the usual piston 17 through a connection 18. A tube or pipe 19 connects the pump 13 with the upper portion of the tank 6 whereby the interior of the tank may be placed under the desired pressure, the pipe 19 being provided with a check valve 20 to prevent leakage of air and insure the maintenance of the pressure in the tank 6. A pipe 22 is suitably connected to the base of the tank 6, the pipe being formed of flexible material or jointed to permit its being folded for storage in the cabinet or extended when in use. The pipe 22, when in use, extends upwardly as shown in Figs. 1 and 2, being supported in upwardly extending position by a jointed support 23 which is made up of separate elements 24 removably connected together as by bands 25 secured to alternate sections.

The lower section 24 is firmly secured to and carried by the cabinet 1, and a bracket 26 is removably connected with the upper section 24, the bracket 26 supporting a ring 27 and a spray pipe 28 which carries a spray nozzle 29 secured to one end thereof while the opposite end of the spray pipe 28 is connected to the pipe 22 from the tank. A valve 31 is located in the spray pipe 28 and may be controlled by chains 32 and 33 to open and close the valve. A curtain 35 is supported from the ring 27 by clips or other suitable means 36 whereby the curtain may be drawn out to extend substantially throughout the length of the ring 27 or re-

tracted into folds as desired. The lower section 24 of the support 23 is incorporated in the frame of the cabinet 1 and the remaining sections 24 are of suitable length to fit within suitable openings or hangers formed for their reception in the cabinet 1 when the structure is demounted. The bracket 26, ring 27, spray pipe 28 and nozzle 29 are adapted to be placed within the cabinet 1 as in the curtain 35 and pipe 22, whenever it is desired to pack the several elements in a limited space.

The handle 14, 16 for operating the pump 13 may, if desired, be made to fold or may be formed in parts joined together otherwise than as shown provided it is so formed as to be folded or demounted so as not to project above the top of the cabinet when not in use.

The cabinet instead of being closed upon all sides may, if desired, be constructed with the sides and top thereof open except for a suitable enclosing framework for supporting the tank and pump and serving to retain the remaining elements in place when demounted and disposed therein. Suitable supporting members appropriately placed to receive each of the elements such as the sections 24, spray pipe and nozzle, etc., are preferably positioned in the interior of the cabinet or frame 1 for properly supporting these elements therein in such a manner as to provide a compact assembly of the elements so arranged as to be most readily accessible.

A pan 38, which in the present instance is of circular form and provided with flaring sides 39 is positioned below the spray nozzle 29. An annular section of canvas or other suitable material 40 is secured to the flaring sides 39 of the pan by means of brackets 41, whereby an additional effective area is given to the pan 38, and the canvas member 40 extends upwardly therefrom to form in effect an extension of the flaring sides 39.

The lower edge of the canvas 40 extends downwardly over the inner portion of the wall 39 to a point adjacent to the base of the pan as shown in Fig. 4. The brackets 41 each comprise a base portion 42 fitting within a loop 43 carried by the pan, prongs 44 adapted to engage over the upper edge of the wall 39, and an outwardly inclined elongated portion 45 adapted to engage a loop 46 in the canvas member 40 to hold the canvas in extended position when in use.

When the parts of the apparatus are in position for use the lower end of the curtain 35 is positioned within the canvas member 40 and terminates somewhat above the base of the pan 36.

The canvas member 40 cooperates with the lower portion of the curtain 35 to prevent the water from the spray nozzle from being splashed from the pan 38 upon the floor.

In the operation of our improved structure, the tank 6 is filled or partially filled with water of the desired temperature, the valve 9 is closed and the lever 14 actuated to place the tank under the desired pressure. The sections 24 are assembled and the bracket 26 carrying the spray pipe 28, spray nozzle 29, and ring 27 is placed in position upon the upper member 24 when the parts assume the position shown in Fig. 1, the pan 38 and canvas 40 having previously been placed in position below the spray nozzle. The apparatus is now ready for use, and upon extending the curtain 35 and opening the valve 31 the water from the tank 6 will be forced through the pipe 22 and spray nozzle 29. When the apparatus is not in use the parts may be placed in the cabinet 1, thus occupying a minimum space and presenting the general appearance of an ordinary closed cabinet.

The term frame as employed in the appended claim is intended to cover either an enclosed or partially enclosed cabinet, either with or without side doors and with or without a removable or hinged cover, or a frame with open sides and top for supporting the tank and pump and provided with spaces adapted to receive the sections 24, spray pipe, nozzle and curtain supporting ring when the parts are demounted.

What we claim is:

In a portable and demountable bath structure, a frame provided with separate compartments and having a space therein for storing the demountable elements, a tank carried by the frame and secured in one of the said compartments, a pump carried by the frame and located in another of said compartments and permanently connected with said tank for placing the tank under pressure, a demountable spray, a flexible pipe connecting said tank and spray, a demountable support carried by said frame and supporting the spray when in operative position, said spray and support being demountable to permit their being stored within the frame when not in use.

In testimony whereof we have affixed our signatures.

LUCIEN J. B. TALBOT.
VITAL A. LECUIVRE.