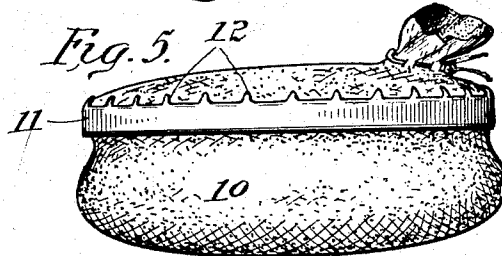
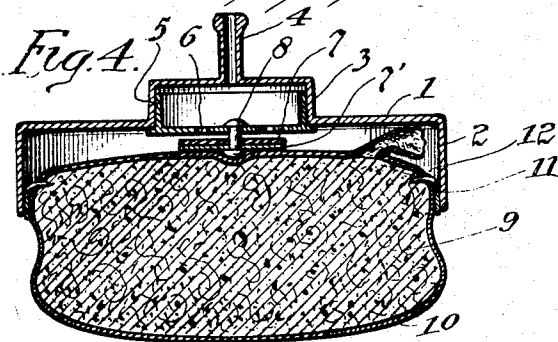
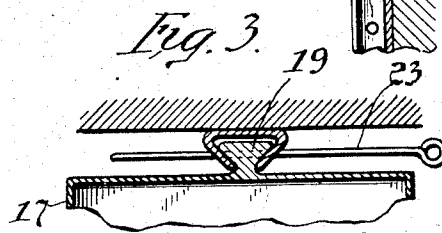
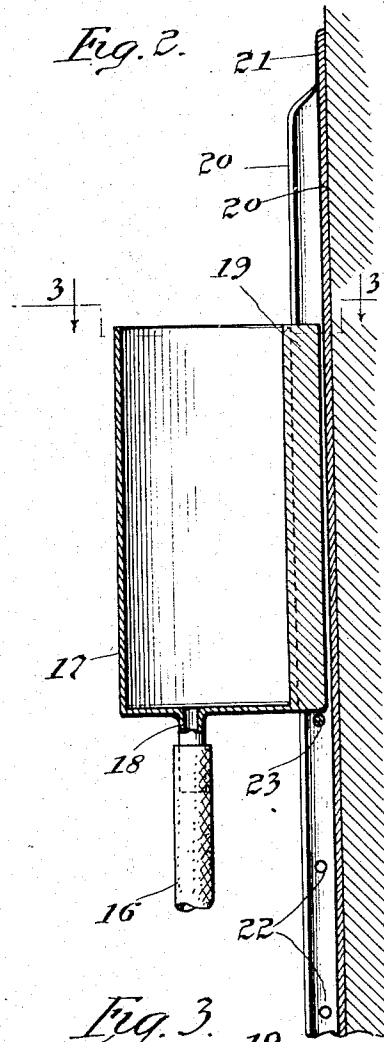
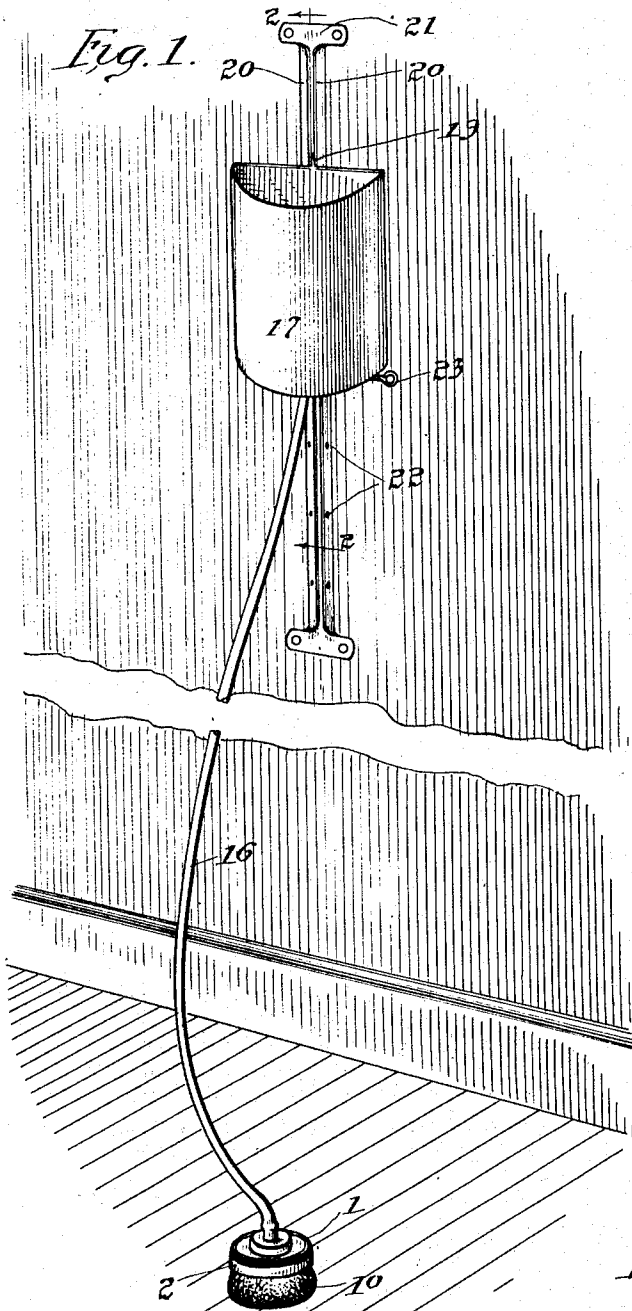


A. F. HEINE.
BATH DEVICE.
APPLICATION FILED JUNE 12, 1919.

1,358,733.

Patented Nov. 16, 1920.



Inventor:

Albert F. Heine

By *Stee & Stee*
Attys.

UNITED STATES PATENT OFFICE.

ALBERT F. HEINE, OF QUINCY, ILLINOIS.

BATH DEVICE.

1,358,733.

Specification of Letters Patent. Patented Nov. 16, 1920.

Application filed June 12, 1919. Serial No. 303,652.

To all whom it may concern:

Be it known that I, ALBERT F. HEINE, a subject of the King of England, residing at Quincy, in the county of Adams and State of Illinois, have invented certain new and useful Improvements in Bath Devices, of which the following is a description.

My invention belongs to that general class of devices known as bath or bathing devices or fixtures, and relates particularly to a device for use in rural communities where the usual facilities for bathing, including running water, bath tub and other conveniences, may not be found. The invention is particularly designed to provide a convenient device which will in so far as possible take the place of the usual facilities found in cities, but will be sanitary, convenient and efficient although only using a minimum amount of water. The invention has among its objects the production of a device of the kind described that is simple, convenient, sanitary, durable, efficient, ornamental and satisfactory for use wherever found applicable. More especially it has as an object the production of a device which will be suitable for use in rural communities, as previously referred to. Many other objects and advantages of the construction herein shown and described will be obvious to those skilled in the art from the disclosure herein given.

To this end my invention consists in the novel construction, arrangement and combination of parts herein shown and described, and more particularly pointed out in the claims.

In the drawings, wherein like reference characters indicate like or corresponding parts,

Figure 1 is a perspective view of my complete device;

Fig. 2 is a sectional view through the receptacle and track;

Fig. 3 is a top elevation of a portion of the same taken substantially on line 3—3 of Fig. 2;

Fig. 4 is a sectional view through the sponge pad casing with the pad in place; and

Fig. 5 is a side elevation of the sponge pad and retainer removed from the casing 1.

Referring to the drawings, 1 represents a casing part which is preferably flanged as at 2 to provide a cup-shaped receptacle, the same having a part formed as at 3 so as to form a part of the walls of a chamber. A part 5 arranged with discharge openings 6 therethrough is arranged as shown, so that a distributing chamber is provided to which water is admitted through tubular part 4, as will be hereafter described. Passage of the water from the distributing chamber through the holes 6 is controlled by a valve 7 of leather, rubber or equivalent material carried on a pin 8 or its equivalent. I prefer to provide a plate 7', the purpose of which is to reinforce and support valve 7, which is substantially soft or flexible and might become too much so owing to the water. The casing 1 is arranged to contain a sponge pad or body 9 of suitable material, for example spongy rubber or the equivalent, which is preferably incased in a container 10 of cloth or other suitable material which will permit the water to pass through. It might be mentioned that the container 10 is preferably so made that the sponge or body 9 may be removed therefrom and the parts thoroughly cleaned. The sponge and its container are shown maintained in place by a retaining ring 11 of a size to closely fit the walls 2 of the casing, so that the same will be retained by the friction, but may be removed when desired. The same is shown provided with prongs or teeth 12 which prevent the sponge from dropping out or becoming detached. The casing and ring 11 may be of suitable material, aluminum being found especially adapted for the purpose. Obviously the casing 1 may be made of the desired shape and size, that is either round, oval, or other shape, the oval shape, as shown, being preferred.

Water is supplied to the chamber in the device by a flexible tube or hose 16 connected to a suitable source of water supply. As shown, the same is connected to a water pail or container 17 of suitable size, shape and material, which in the construction shown is

provided with a depending discharge pipe 18 to which the hose 16 is attached. Obviously the pail may be supported in any desired way, a very convenient support being shown in the Figs. 1 and 2, in which 21 is a plate having the sides flanged as at 20 to form a guide or track in which the extending part 19 of the pail may slidably engage. Any desired means may be provided for supporting the pail in its guide or raising or lowering the same. A simple construction for supporting the same is to provide holes 22 in the guides through which a pin 23 may be inserted, so that the pail may be supported at any desired point, depending upon the height of the user as well as the pressure preferred.

In use the pail may be lowered and filled and then raised to the desired point. The sponge and casing should be elevated above the pail or else the sponge pressed inwardly to close and maintain the valve 7 shut until it is desired to have the water flow. The user may stand in a tub, pail or other receptacle so as to catch the excess water and prevent its flowing on the floor if desired. The sponge pad may be used in the usual manner and the water allowed to flow out through the same at the same time until such time as it is desired that the flow of water be cut off or regulated, in which case the desired pressure is placed upon the sponge pad, which, as will be obvious by referring to Fig. 4, will tend to partially or entirely close the valve, depending upon the pressure applied. At this time the water will be partially or entirely cut off. Upon relieving the pressure against the valve, the water will flow again. It will be obvious from the preceding that the desired amount of water may be used, and that by so regulating and controlling its flow, a comparatively small amount of water will be sufficient for the bath. The advantages of shower baths are so well known that the same need not be elaborated on nor referred to here. With my apparatus it is possible for every home not equipped with modern bathing facilities to have a convenient and efficient equipment, so that the user may have all the advantages at a nominal expense. My construction is sanitary, simple and durable, and consists of a small number of parts. There are no springs or similar devices in the valve that will get out of order or break, thereby rendering the device inoperative. The sponge and its container so retards the flow of water that while there is plenty for the purpose, there is no water wasted. Thus it is not necessary to be troubled in constantly refilling the container or using an unduly large container.

Having thus described my invention, it is obvious that various immaterial modifications may be made in the same without de-

parting from the spirit of my invention; hence I do not wish to be understood as limiting myself to the exact form, construction, arrangement and combination of parts herein shown and described, or uses mentioned.

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

1. In a bath device of the kind described, a cup shaped casing provided with an inlet through one of the walls thereof, a valve for closing said inlet, a yieldable sponge pad arranged within the casing and having a portion thereof projecting beyond the casing, the valve being adapted to be opened by the pressure of the water contacting therewith, said pad abutting said valve to close the same upon an inward movement of the pad.

2. In a device of the kind described and in combination, a cup shaped casing having one side open and provided with a chamber in the other side having an inlet, and outlets leading from the casing, a valve arranged to control the passage of water through said outlets, a sponge pad arranged in the path of the water discharged from said outlets, friction means for normally preventing the withdrawal of the pad from the casing, the valve being adapted to be opened by the pressure of water passing from the casing, said pad cooperating with the valve to close the same upon an inward movement of the pad in the casing.

3. In a device of the kind described, a casing having a water chamber provided with a water inlet and outlet, a cleansing pad arranged within the casing and mounted for a yielding movement relative to said casing, cooperating means between the casing and the pad for preventing the entire withdrawal of the pad from the casing, a slidable valve for controlling the passage of water from the water chamber operable by the pressure of the water in said chamber to open the same, said pad when moved to an inward position abutting the valve to close the same.

4. A sponge pad of the kind described comprising a suitably shaped casing provided with a recess in one of the walls thereof and with a cover plate for said recess, the walls of said recess and said cover plate constituting substantially a water distributing chamber, said casing provided with an inlet to said chamber, a sponge pad arranged in said casing projecting thereout, means for securing said pad in place, said cover plate provided with openings there-through, a valve member secured to said cover plate between the plate and said sponge pad and movable outwardly, whereby discharge of water from the chamber will open the valve and pressure on the pad will close and maintain the valve shut.

5. A device of the kind described compris-

ing a casing having a chamber formed in one of the walls thereof, and provided with a circumferential flange, a part cooperating with said chamber formed with water discharge orifices, a water inlet to the chamber, a valve for closing said orifices, a sponge pad disposed within the said casing and having a yielding movement therein, the valve being adapted to be opened by the pressure of the water passing from the res-

ervoir and said pad abutting said valve to close the same by an inward movement of the sponge pad.

In testimony whereof, I have hereunto signed my name in the presence of two subscribing witnesses.

ALBERT F. HEINE.

Witnesses:

F. C. HOFFMAN,
HELEN WANSING.