

H. B. PITCHER.
SHOWER BATH ATTACHMENT.
APPLICATION FILED JULY 21, 1916.

1,331,370.

Patented Feb. 17, 1920.

Fig. 1.

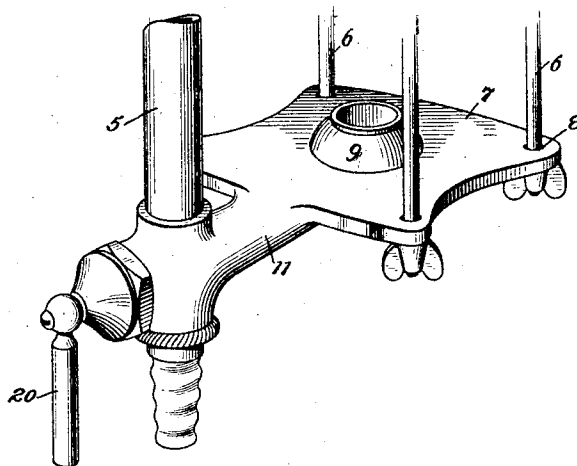


Fig. 2.

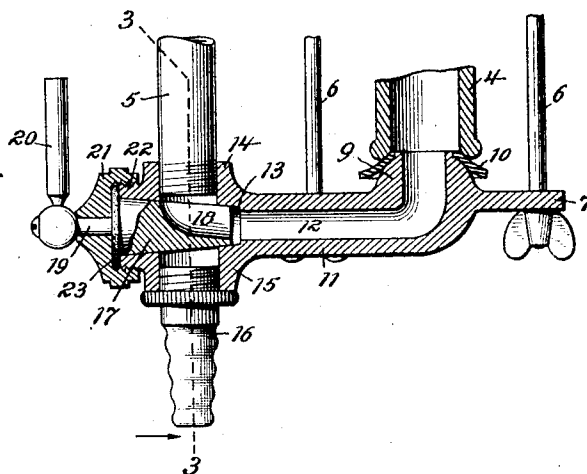
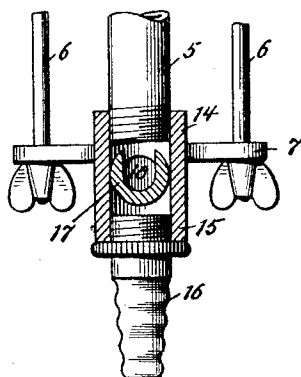


Fig. 3.



WITNESSES

[Signature]

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SHOWER-BATH ATTACHMENT.

1,331,370.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, HUGH B. PITCHER, a citizen of the United States, and resident of Boonton, in the county of Morris and State of New Jersey, have invented certain new and useful Improvements in Shower-Bath Attachments, of which the following is a specification.

My invention relates to a shower bath fitting constituting an attachment for demountably connecting a shower bath to the standard bath tub faucets.

One of the objects of my invention is to provide a simple form of fitting preferably a casting designed to constitute an inexpensive means for quickly and positively securing a shower bath or similar device to any of the ordinary water or bath tub faucets now in general use.

Another object of the invention is to provide a fitting of the class described which will support the shower bath rigidly in position in advance of the usual faucet and without the necessity of any other securing means.

A still further object is to provide in the attachment all the necessary valvular mechanisms to direct the water at will either through the shower bath or directly into the bath tub.

Such devices as usually constructed are quite cumbersome and expensive, so that at the basis of this invention is the desire to provide an attachment largely made up of a simple casting which can be formed with a minimum amount of machining and arranged so that ready access may be obtained to the valve elements for replacement or for regrinding the valve or valve seat.

Various other objects and advantages of the invention will be in part obvious from an inspection of the accompanying drawings and in part will be more fully set forth in the following particular description of one form of mechanism embodying my invention, and the invention also consists in certain new and novel features of construction and combination of parts hereinafter set forth and claimed.

In the accompanying drawings:

Figure 1 is a perspective view of a preferred embodiment of my invention with an element of a shower bath connected thereto;

Fig. 2 is a vertical sectional view taken

centrally from front to rear through the device shown in Fig. 1; and

Fig. 3 is a vertical transverse sectional view taken on the line 3—3 of Fig. 2.

In the following description and in the claims, parts will be identified by specific names for convenience of expression but they are intended to be as generic in their application to similar parts as the art will permit.

In the drawings there is shown a depending outlet nozzle 4, which may be considered as part of the water faucet of the bath-tub or any other similar nozzle to which it is desired to connect the shower bath. A shower bath is shown symbolically in the vertically extending supply pipe 5 designed to be positioned in advance of the bath tub faucets.

It is understood that this type of shower bath is supported entirely from the base constituting the subject matter of this application. The attachment is hung from some suitable part of the faucet, preferably by means of inverted U suspension members 6 as is usual with some forms of devices of this character. The attachment includes a casting formed of a substantially square flat plate 7 designed to be horizontally disposed and at opposite corners of which are holes 8 to accommodate the vertically disposed U members 6. A dome 9 projects centrally from the upper face of the plate so as to fit within the open end of the nozzle 4, preferably with some suitable form of washer 10 fitting therebetween. Integral with the underside of the plate is a forwardly extending pipe 11, the bore 12 of which is L shaped and opens through the dome to provide communication with the nozzle 4. The forward end of the bore 12 is enlarged to form a frusto-conical valve seat 13, the large end of which faces outwardly. The enlarged portion of the bore opens upwardly into a bell 14 into which is threaded the lower end of the shower bath supply pipe 5. This portion also opens downwardly into a lower bell 15 designed to provide communication from the bore 12 either directly into the bath tub or preferably, through a conventional form of depending hose connection 16 threaded into the outer end of the bell 15. A horizontally disposed frusto-conical valve 17 is fitted into the seat 13 from the outer end of the enlarged portion

of the pipe bore. The inner small end of this valve is provided on one side with a curved passageway 18 continuously open endwise to the bore 12 and designed to be rotated into position to face either the opening through the bell 14 and pipe 5 or to face the opening through the bell 15 and connection 16. The valve is mounted to be rotated from one position into the other by means of a valve stem 19 affixed to the outer end of which is a handle 20. The valve is demountably held in position by means of a cap 21 threaded on to an extension 22 of the pipe which projects forwardly of the bells. The cap contains the stem 19 which is rotatably mounted therein and houses a washer 23 which is disposed between the cap and the outer face of the extension 22.

It is to be understood that the shower bath elements are either permanently attached to the casting, or the attachment as shown is sold as a separate member designed to be affixed to the supply pipe of any of the conventional forms of shower baths now in general use. The U suspension members are hung on the faucet arms and the free ends passed through the holes in the corners of the plate. Tightening up the wing-nuts draws the dome into firm engagement with the faucet outlet thus securely anchoring the attachment in position and holding the shower bath rigidly over the tub. Should it be desired to run the water into the shower bath the handle is turned into the position shown in Fig. 2; should it be desired to run the water directly into the tub, the handle is turned into the position shown in Fig. 1. Rotating the handle will cause the passageway in the valve to open the water supply either to the shower bath or to the tub, or, in an intermediate position both the outlets are closed.

The broad plate provides a wide spreading support hanging from the bath-tub faucets and the rigid extension of the pipe therefrom provides a secure base for supporting the weight of the shower bath parts without turning strains on the connection.

By means of a device of this character the shower bath is held rigidly in position, even though there are no other connections therewith. The body portion of the attachment is a simple casting which can be molded cheaply and which at the same time will have the metal economically disposed to take care of the strains incidental to a device of this character with due regard to the forming of a neat appearance to this part of the shower bath.

The handle for controlling the valve is placed in advance of the bath-tub faucets,

so that the flow is controlled conveniently to cause the water to flow either into the shower bath or into the tub as desired. By unscrewing the cap holding the valve in place, ready access is provided to the valve and to the valve seat so as to permit an easy re-grinding of these parts. The bells and the extension at the forward end of the pipe are designed so that they may be conveniently threaded in the manufacture of the attachment.

While I have shown and described, and have pointed out in the annexed claims, certain novel features of my invention, it will be understood that various omissions, substitutions and changes in the form and details of the device illustrated and in its operation may be made by those skilled in the art without departing from the spirit of the invention.

Having thus described my invention, I claim:

1. In a shower bath for bath tubs, the combination of a single casting including a substantially flat plate provided with means for permitting the same to be engaged by hanger supports, the top of said plate provided with a dome adapted to fit the nozzle of a bath tub faucet, a pipe integral with said plate and extending forwardly therefrom with one end opening through said dome and the opposite end constituting a valve seat, said pipe provided with an upper and lower outlet on opposite sides of said valve seat, a supply pipe threaded into the upper outlet and a valve on said seat for opening the pipe selectively to either the upper or lower outlet, said valve provided with a forwardly extending control handle conveniently accessible to the bather in the bath tub.

2. In a shower bath the combination of a single casting including a substantially flat plate provided with means for permitting the same to be engaged by hanger supports, a pipe fixed to said plate and extending forwardly therefrom with one end opening therethrough and the opposite end enlarged to form a frusto-conical bore constituting a valve seat, said pipe provided with an upper and a lower outlet on opposite sides of said valve seat and a frusto-conically shaped valve inserted into said opposite end and rotatably mounted on said seat for opening the pipe selectively to either the upper or lower outlet and a cap for demountably securing the valve in place.

Signed at New York in the county of New York and State of New York this twelfth day of June, A. D., 1916.

HUGH B. PITCHER.