July 15, 1924. 1,501,197

G. F. BLUME

BATHROOM UNIT

Filed Sept. 11, 1923 3 Sheets-Sheet 1

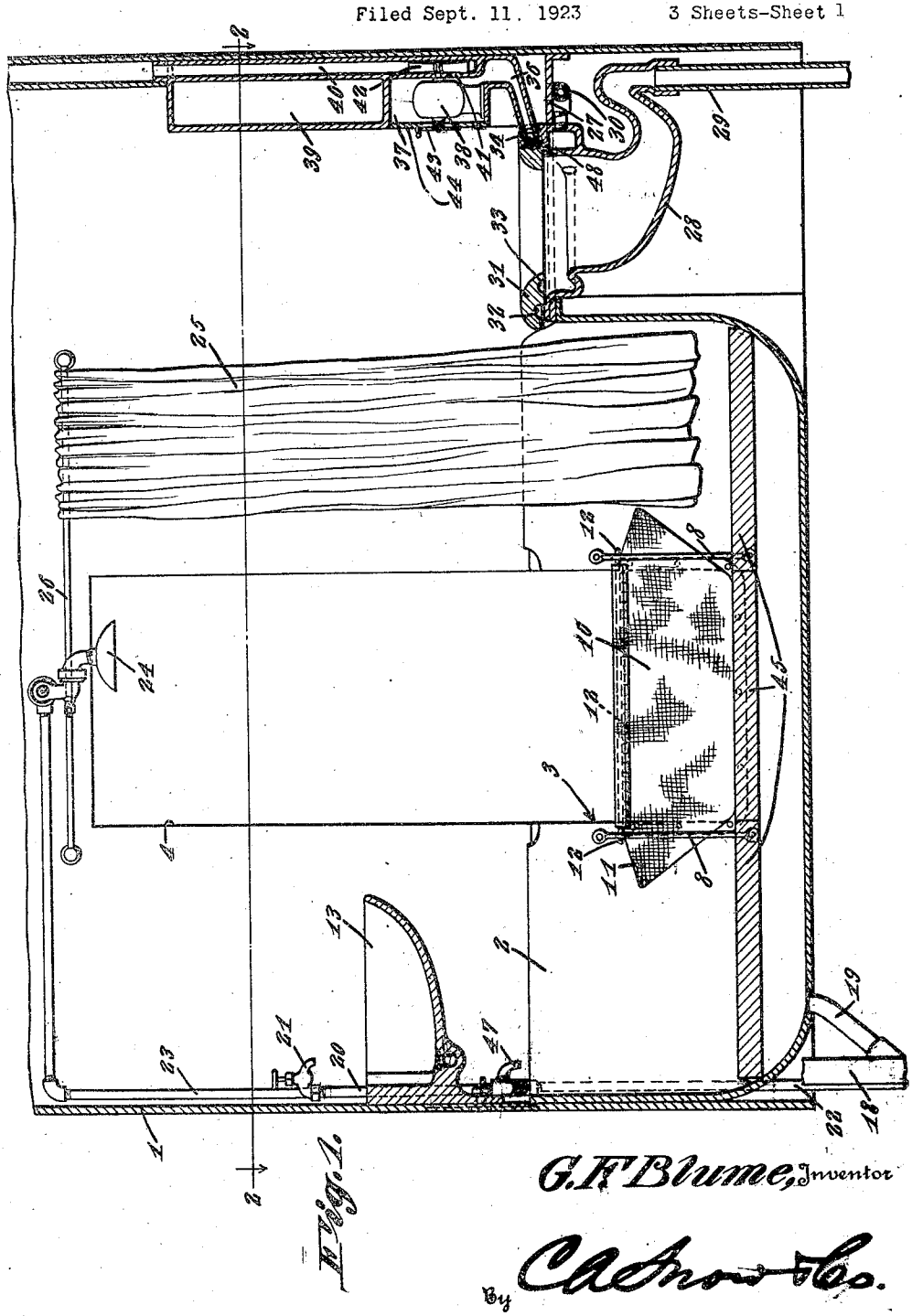


Fig. 1.

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3 Sheets-Sheet 2

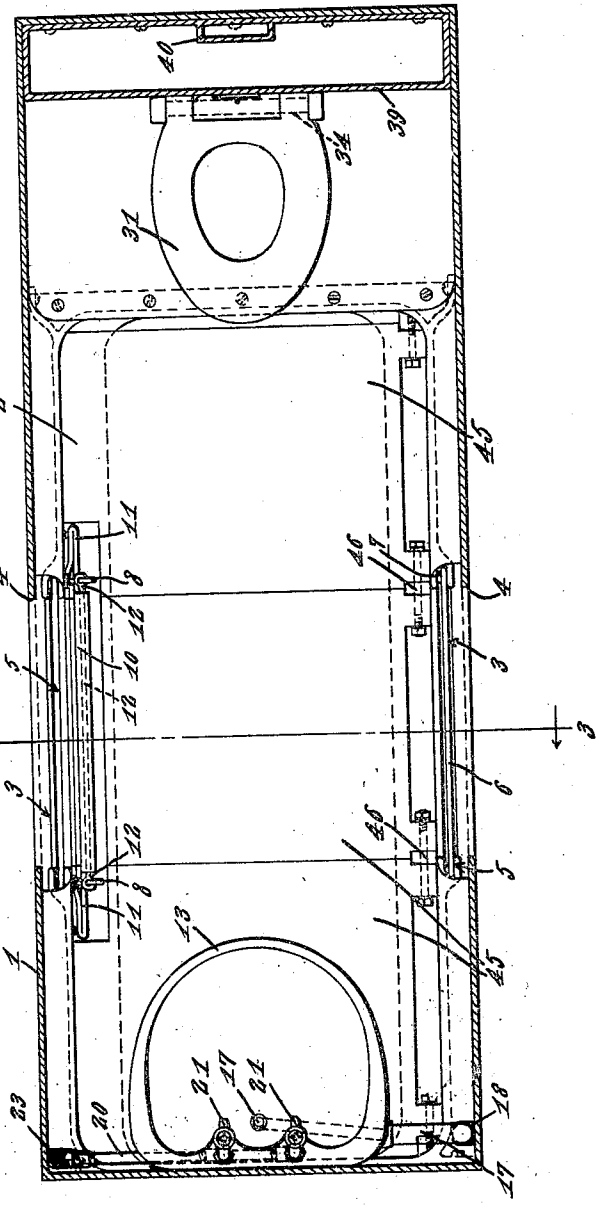


Fig. 2.

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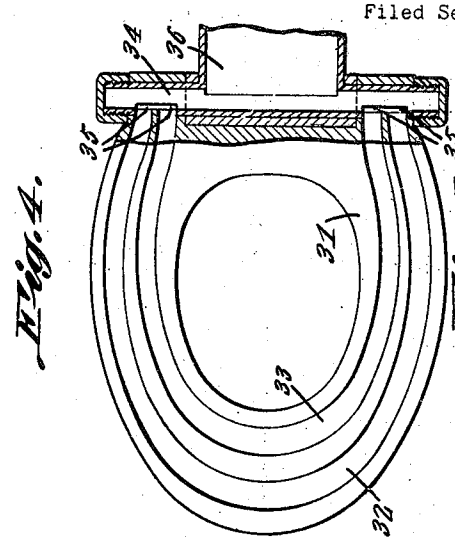


Fig. 4.

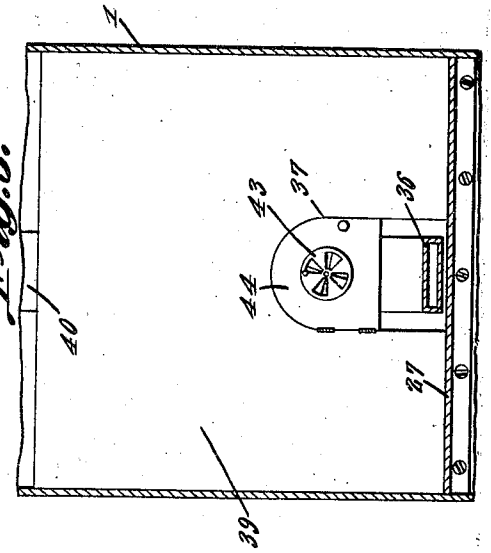


Fig. 5.

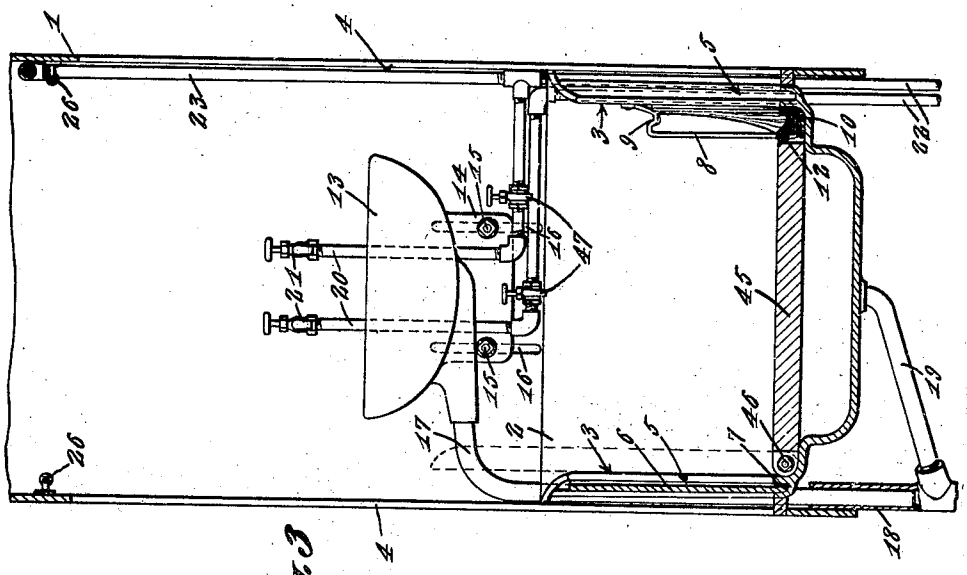


Fig. 3.

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Attorneys

Patented July 15, 1924. 1,501,197

UNITED STATES PATENT OFFICE.

GEORGE FRED BLUME, OF PHILADELPHIA, PENNSYLVANIA.

BATHROOM UNIT.

Application filed September 11, 1923. Serial No. 662,093.

To all whom it may concern:

Be it known that I, GEORGE FRED BLUME, a citizen of the United States, residing at Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented a new and useful Bathroom Unit, of which the following is a specification.

This invention relates to a bath-room unit designed primarily for use in hotels, apartments, steam boats, parlor cars and other places where the conservation of floor space is an important consideration.

One of the objects of the invention is to so combine the various fixtures of a bath-room that the space required for housing them is much less than is necessary under ordinary circumstances.

A further object is to provide a unit of this character wherein the bath tub constitutes the main intermediate portion of the structure and is provided with a door whereby a person can readily enter and occupy the tub while utilizing the other conveniences of the unit.

A further object is to provide a complete unit which can be set up readily in a state room or in a specially constructed compartment provided therefor.

With the foregoing and other objects in view which will appear as the description proceeds, the invention resides in the combination and arrangement of parts and in the details of construction hereinafter described and claimed, it being understood that changes in the precise embodiment of the invention herein disclosed may be made within the scope of what is claimed without departing from the spirit of the invention.

In the accompanying drawings the preferred form of the invention has been shown.

In said drawings—

Figure 1 is a vertical longitudinal section through the unit.

Fig. 2 is a horizontal section on the line 2—2, Fig. 1, the curtain of the shower being removed.

Fig. 3 is a section on line 3—3, Fig. 2.

Fig. 4 is a bottom plan view of the hopper seat, the hinge being shown in section.

Fig. 5 is a transverse section through a portion of the structure showing the water tank and the ventilator damper in elevation. Referring to the figures by characters of reference 1 designates an enclosure, the walls of which can extend to any desired height, this enclosure being formed of metal, porcelain or any other preferred material.

Arranged within the enclosure so as to extend from one end thereof to a point adjacent the other end is a bath tub 2 provided with side openings 3 adjacent the center of the tub and which openings extend from the top to the bottom of said tub. Door openings 4 are provided in the enclosure 1 directly opposite the openings 3 so that a person passing through either door opening can step readily into the tub. The walls of the opening 3 at one side of the tub are formed with grooves 5 extending longitudinally of said walls and these grooves are designed to receive a closure 6 in the form of a panel of wood or other suitable material having a strip of packing material 7 such as rubber adjacent the edges thereof. Thus when the closure is slid downwardly into the grooves 5 the packing strip will be compressed and the opening bridged by the closure will thus be closed and sealed.

Secured to the inner surface of the other side wall of the tub and close to the opening 3 in said wall are guide rods 8, the upper end portions of which are crooked to form recesses 9. A curtain of rubberized fabric or other suitable waterproof material indicated at 10 is secured along its lower edge to the bottom of the tub and along its side edges to the side walls of the said opening 3 in the tub. The curtain is so shaped that when its upper edge is elevated the side portions of the curtain will form triangular folds as indicated at 11. A rod 12 is secured to the upper edge of the curtain and is adapted to rest at its ends in the recessed or crooked portions 9 of the rods 8. Thus the curtain will be held raised as shown in Fig. 1 and will retain water in the tub up to the level of the tops of the folds 11. By lifting the ends of rod 12 out of the recesses 9 said rod can be lowered so as to cause the curtain to fold as shown in Fig. 3 where it will be out of the way below the level of the bottom of the opening 3. The folds 11 will straighten out during this lowering and folding of the curtain, thereby leaving the opening unobstructed and allowing a person to pass readily therethrough into or out of the tub.

Supported upon one end wall of the enclosure 1 is a wash basin or lavatory 13 having an apron 14 through which bolts 15 extend, these bolts being adjustably mounted in slots 16 formed in the wall of the enclo-

sure. A waste pipe 17 is extended from the bottom of the basin and telescopes into a stationary pipe 18 extending downwardly from the unit. Another waste pipe 19 extends from the bottom of the bath-tub 2 to the pipe 18. Obviously by loosening the bolts 15 the basin 13 can be raised or lowered. Water supply pipes 20 are arranged within openings formed in the back portion of the basin and are provided with the usual faucets 21. These pipes are stationary and extend from distributing pipes 22 suitably located within the enclosure.

A pipe 23 can be extended from either or both of the pipes 22 to a shower nozzle 24 supported above the center of the tub and having the usual or any preferred means for controlling the flow of water therefrom. A curtain 25 can be suspended from a rod 26 located adjacent each opening 4 in the enclosure, the lower end of each curtain being suspended within the tub. Thus by sliding the curtain to position across the opening 4 and the tub opening 3, water will be prevented from splashing through the door openings while the shower is in use.

As heretofore stated one end of the bath tub extends up to one end wall of the enclosure while the other end is located adjacent but spaced from the other end wall of the enclosure. A shelf 27 bridges the space this end wall and the end of the tub and surrounds the upper end portion of a hopper 28 connected to a waste pipe 29 and to a water supply pipe 30 in the usual manner. A seat 31 is provided in its lower face with substantially parallel grooves 32 and 33 respectively which open downwardly, the groove 32 opening outside of the hopper while the groove 33 opens into the hopper. The seat is provided with a hinge connection including a tubular pintle 34 adapted to retain the seat and having openings 35 communicating with the respective grooves. The seat rotates relative to the pintle without closing communication between the pintle and the grooves. Extending from the pintle is a ventilating flue 36 opening into a compartment 37 in which is mounted an electric motor 38. A water tank such as usually employed is located above the compartment 37 as shown at 39 and back of this tank is a flue 40 opening at 41 into the compartment 37. A fan 42 is located in flue 40 and is driven by the motor 38 so as to set up a suction along the grooves 32 and 33 through pintle 34 and flue 36 to compartment 37 from which the air will be expelled through flue 40. A damper 43 can be located in the front or exposed wall of the compartment 37 as shown in Figs. 1 and 5 whereby ventilation of the enclosure can be effected from above the seat. This ventilator 43 can be carried by a door 44 constituting the front wall of the compartment 37. Obviously by opening this door access may be had readily to the motor 38.

A platform or floor section 45 is hingedly mounted in the bath tub close to one side thereof as shown at 46 and normally rests on the bottom of the tub substantially in line with the bottom walls of the openings 3. Thus when these openings 3 are unobstructed a person can step into and stand within the tub when using either of the conveniences described and which are located at the ends thereof.

When it is desired to use the tub for bathing purposes the openings at the sides thereof are closed as heretofore described and water is directed into the tub from suitably arranged faucets 47 provided therefor.

It will be seen that this unit can be set readily in a state room or in any other small area provided therefor and can even be located midway between two compartments so as to be available from either of them. Where only one entrance is needed, that is to say, at one side of the tub, it becomes unnecessary to utilize the opening at the other side of the tub and the tub can therefore be made with but one side opening. The same is likewise true of the openings 4 in the enclosure 1.

Under some conditions it might be desirable to eliminate the enclosure 4 and to utilize solely the tub, basin and hopper with their cooperating parts as a complete unit. It is to be understood that such a modification is strictly within the scope of the present invention.

When the floor section or plaform 45 is not in use it can be swung upwardly out of the way as shown by broken lines in Fig. 3 so as not to interfere with the use of the tub for bathing purposes.

If desired the hopper can be provided with a vent 48 opening into the pintle 34.

What is claimed is:—

1. A bath room unit including, in a single structure, a hopper, a lavatory, and a bath tub interposed between the hopper and lavatory and constituting a support for the user of the hopper and lavatory.

2. A bath room unit including a housing having an entrance, a hopper, a lavatory, and a bath tub interposed between the hopper and lavatory, and constituting a support for a person using the hopper and lavatory, said housing, tub, hopper and lavatory being assembled as one complete article.

3. A bath-room unit including a bath tub having an opening in one wall providing ingress and egress, a platform movably connected to the tub and normally covering the bottom thereof, and means for closing the opening, said means including a curtain secured at its bottom and side edges to the wall of the tub close to the opening and having side folds, guide rods secured to the

tub adjacent the sides of the opening, and means on the curtain and cooperating with the rods for holding the curtain upwardly extended to close the opening, said curtain being foldable downwardly to clear the opening.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses.

GEORGE FRED BLUME.

Witnesses:
JOSEPH MACGREGOR,
A. M. QUINN.