May 27, 1924. 1,495,413

M. HOPPONEN

FOLDING SHOWER CABINET

Filed Aug. 9, 1923 2 Sheets-Sheet 1

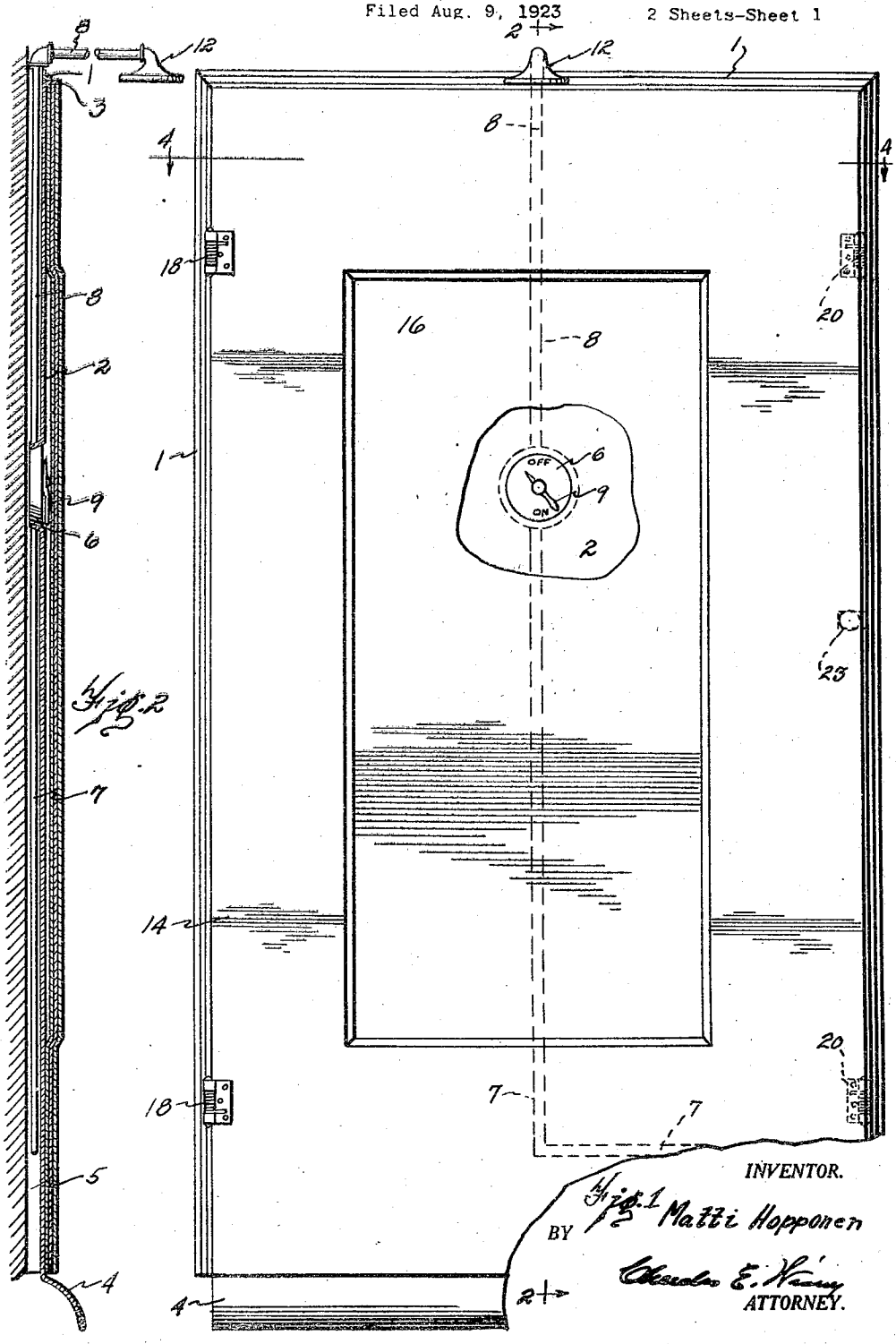


Fig. 2

Fig. 1

INVENTOR.

BY Matti Hopponen

Charles E. Kinney

ATTORNEY.

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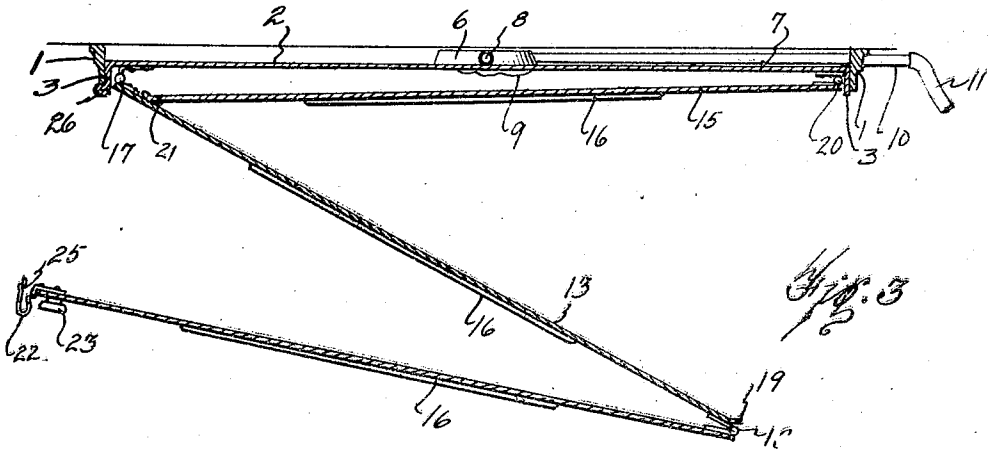


Fig. 3

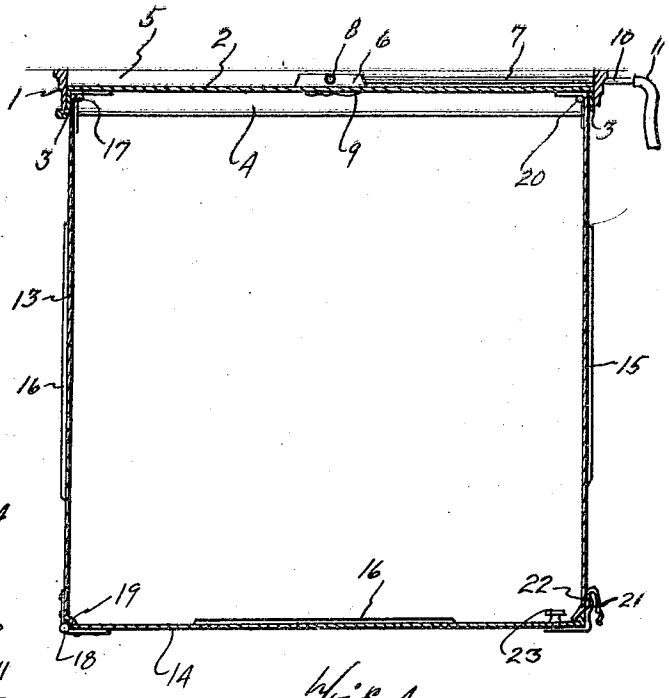


Fig. 4

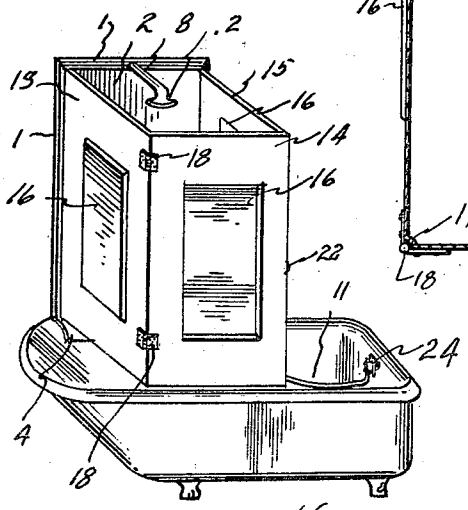


Fig. 5

INVENTOR.

Matti Hopponen

BY

Charles E. Hines

ATTORNEY

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UNITED STATES PATENT OFFICE.

MATTI HOPPONEN, OF DETROIT, MICHIGAN.

FOLDING SHOWER CABINET.

Application filed August 9, 1923. Serial No. 656,618.

To all whom it may concern:

Be it known that I, MATTI HOPPONEN, a citizen of the United States, residing at Detroit, county of Wayne, State of Michigan, have invented a certain new and useful Improvement in Folding Shower Cabinets; and declare the following to be a full, clear, and exact description of the same, such as will enable others skilled in the art to which it pertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification.

This invention relates to folding shower cabinets and the object of the invention is to provide a cabinet adapted to prevent the water from a shower from splashing on the floor. Another object of the invention is to provide a shower cabinet adapted to be secured in position over a bath tub to cause the water from the shower to fall into the bath tub. A further object of the invention is to provide a folding shower cabinet which is adapted to be secured to a wall and is adapted to be folded up out of the way against the wall when not in use. A further object of the invention is to provide a folding shower cabinet provided with a catch the parts being so arranged that when the catch is disengaged the cabinet will extend to position for use. Another object of the invention is to provide a folding shower cabinet including a shower which may be readily connected to the faucet of a bath tub. These objects and the several novel features of the invention are hereinafter more fully described and claimed and the preferred form of construction by which these objects are attained is shown in the accompanying drawings in which—

Fig. 1 is a front elevation of the cabinet in position for use.

Fig. 2 is a section through the cabinet as folded against the wall.

Fig. 3 illustrates the manner in which the cabinet is folded.

Fig. 4 is a horizontal section through the cabinet in position for use.

Fig. 5 is a perspective view of the cabinet ready for use.

As shown in Figs. 1 and 4 the cabinet comprises a molding 1 which forms a three sided frame as shown in Fig. 1, and a panel 2 is positioned in this frame having flanges 3 on three sides thereof and an outwardly extending curved flange 4 across the bottom. This panel 2 is spaced from the wall by the molding 1 and provides a chamber 5 between the panel 2 and the wall. The panel 2 as shown in Fig. 2 is shaped to receive a valve 6 to which the pipe lines 7 and 8 are attached, the flow through the pipe lines being controlled by a handle 9 for opening or closing the valve. As shown in Figs. 3 and 4 the pipe line 7 extends through the chamber 5 and out through the molding 1 providing an end 10 adapted for the attachment of a rubber tubing 11 which in turn is attached to the faucet of the bath tub as shown in Fig. 5. The pipe line 8 extends upwardly through the chamber 5 and through the flange 1 at the upper end of the panel 2 and terminates in a spray head 12. The cabinet proper comprises four sides 2, 13, 14 and 15. These sides are preferably made of sheet metal and enameled so as to prevent rust and are paneled by offsetting the rectangular portions 16 as shown in Fig. 5. The portion 13 is hinged to the portion 2 by means of the spring hinges 17 and these hinges tend to swing the member 13 outwardly until it strikes the flange 3 which limits movement thereof. The portion 14 is attached to the portion 13 by spring hinges 18 which tend to swing the member 14 to the position shown in Fig. 4, the portion 13 being provided with an extending end 19 which forms a stop for the member 14. The member 15 is hinged to the member 2 by means of spring hinges 20 which tend to swing the member 15 outwardly until it strikes the stop formed by the flange 3 of the portion 2. As shown in Fig. 4 the edges of the members 14 and 15 opposite the hinges overlap and the member 15 is provided with a bead 21 over which the spring catch 22 on the portion 14 is adapted to engage, the portion 14 being provided with a knob 23 for closing the cabinet. For the purpose of illustration I have shown a spring catch 22 but any suitable type of spring catch may be used at this point. In this position as will be seen from Fig. 5 the shower 12 extends centrally over the cabinet and when the cabinet is secured to the wall the flange 4 extends over the upper edge of the tub and prevents water from passing between the tub and wall and the cabinet directs the water into the tub and prevents its being splashed onto the floor. The valve 6 is adapted for turning the water off or on and the temperature of the water is

controlled by the faucet 24 in the tub shown in Fig. 5 to which the tube 11 is connected. Faucets of this type have a hot and cold water inlet and a common outlet to which the tube 11 is attached so that the temperature of the water may be controlled by varying the opening or closing of the hot and cold water valves in the faucet. To fold the cabinet the catch 22 is released by pushing outwardly on the knob 23 at which time the portion 15 may be folded inwardly against the tension of the spring hinges 20 as shown in Fig. 3 and the portion 14 may be turned on the hinges 18 from the position shown in Fig. 4 to that shown in Fig. 3 at which time the portion 13 is turned on the hinges 17 thus folding the three portions 13, 14 and 15 within the flange 3 of the portion 2 and the spring catch 22 is provided with a portion 25 which engages over a bead 26 provided on the flange 3 and thus holds the parts 13, 14 and 15 in folded position, the knob 23 being on the outside at this time. To open the cabinet it is only necessary to pull outwardly on the knob 23 until the catch portion 25 is released at which time the spring hinges will swing the portions 13, 14 and 15 outwardly to the position shown in Fig. 4 and the user may step within the cabinet and by means of the knob 23 may engage the catch 22 over the bead 21.

From the foregoing description it becomes evident that the device is very simple and efficient in operation, will not easily get out of order, is composed of few parts, may be easily attached to a bath tub and provides a shower which may be used with a bath tub and which at the same time confines the falling water to the tub.

Having thus fully described my invention, its utility and mode of operation, what I claim and desire to secure by Letters Patent of the United States is—

1. A folding shower cabinet comprising a stationary panel secured to a wall in spaced relation therewith, the stationary panel being provided with outwardly extending flanges at the vertical edges and top and a curved flange at the bottom adapted to fit over the edge of a bath tub, a panel hinged to the stationary panel within each vertical flange, the hinges being provided with springs for turning the panels outwardly, the flanges forming a stop to limit turning of the hinged panels by the springs, one of the hinged panels being provided with a vertical flange at the outer edge, a fourth panel hinged to the hinged panel adjacent the vertical flange, a spring for turning the fourth panel on its hinge, the vertical flange of the hinged panel forming a stop for the fourth panel, the fourth panel being provided with a spring catch for engaging the other hinged panel, the panels being foldable to a position within the flanges of the stationary panel, and the stationary panel being provided with a lug over which the spring catch may engage to hold the panels in the folded position.

2. A folding shower cabinet comprising a stationary panel secured to a wall in spaced relation therewith, the stationary panel being provided with outwardly extending flanges at the vertical edges and top and with a curved flange at the bottom adapted to fit over the edge of a bath tub, a panel hinged to the stationary panel within each vertical flange, the hinges being provided with springs for turning the panels outwardly, the flanges forming a stop to limit movement of the hinged panels beyond a right angle to the stationary panel, one of the hinged panels being provided with a vertical flange at the outer edge, a fourth panel connected to the flanged panel by spring hinges, the flange of the hinged panel forming a stop for the fourth panel, the fourth panel being provided with a spring catch for engaging the other hinged panel, a spray head extending centrally over the cabinet thus formed, a means for connecting the spray head to a source of water supply.

3. A folding shower cabinet comprising a stationary panel adapted to be secured to a wall in spaced relation therewith, a panel connected to each vertical edge of the stationary panel by means of spring hinges tending to force the panels outwardly at a right angle to the stationary panel, a panel hinged to one of the extending panels by means of spring hinges tending to force it outwardly to form the fourth side of the cabinet, means limiting movement of the panels by the spring hinges, a spray head extending centrally over the open cabinet and means for connecting the spray head to a source of water supply.

4. A folding shower cabinet comprising a stationary panel adapted to be secured to a wall in spaced relation therewith, the stationary panel being provided with a curved flange at the lower edge adapted to fit over the edge of a bath tub, a panel hinged to each vertical edge of the stationary panel and adapted to extend outwardly at a right angle to the stationary panel, a panel hinged to one of the extending panels and provided with a spring catch for engaging the other extending panel, the hinged panels being foldable against the stationary panel, a spray head extending centrally over the open cabinet, and means for connecting the spray head to a source of water supply.

5. A folding shower cabinet comprising a four sided folding cabinet, one of the sides being stationarily supported on a wall in spaced relation therewith, the stationary side being provided with a curved flange

at the bottom adapted to extend over the edge of a bath tub, a pipe line extending through the space between the stationary side and the wall, the upper end of the pipe line extending centrally over the cabinet when in the open position, a spray head on the upper end of the pipe line and a flexible tube connecting the lower end of the pipe line with the faucet of the bath tub.

In testimony whereof, I sign this specification.

MATTI HOPPONEN.