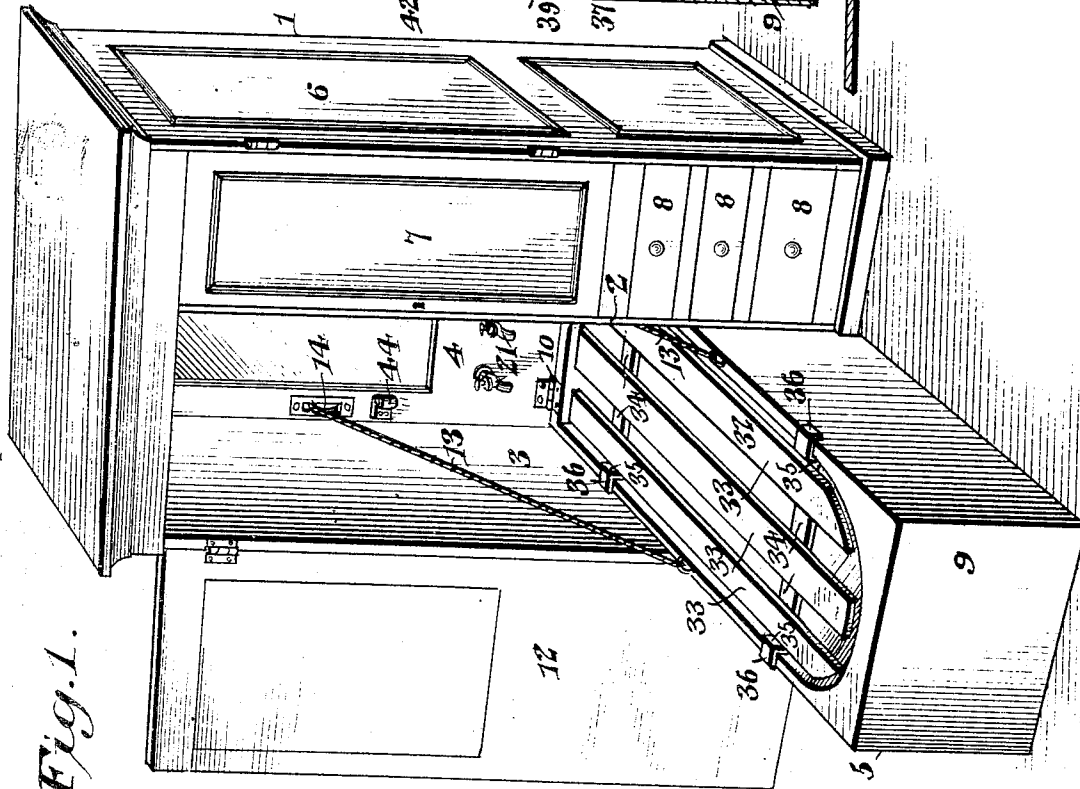
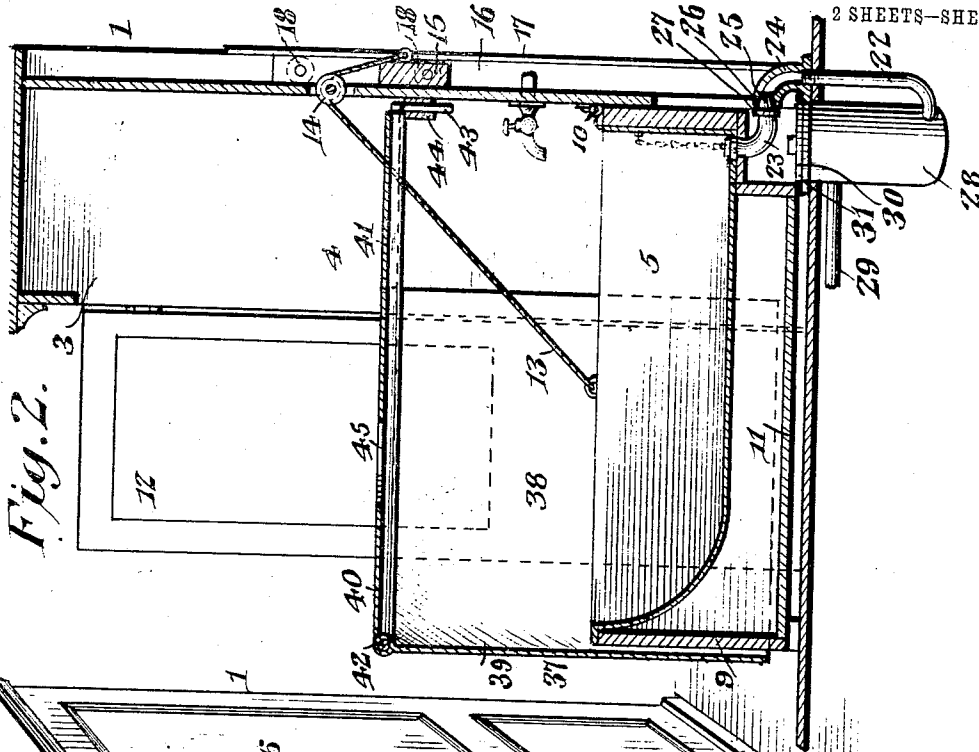


B. W. PATTINSON.
FOLDING COT AND BATH TUB CABINET.
APPLICATION FILED APR. 21, 1906.

898,598.

Patented Sept. 15, 1908.

2 SHEETS—SHEET 1.



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Fig. 4.

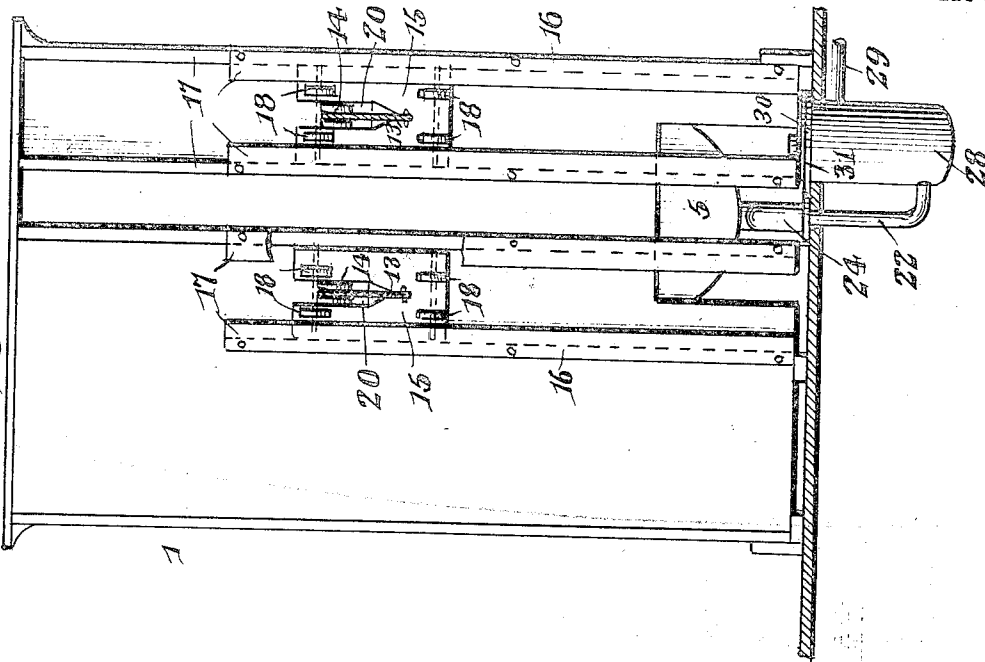
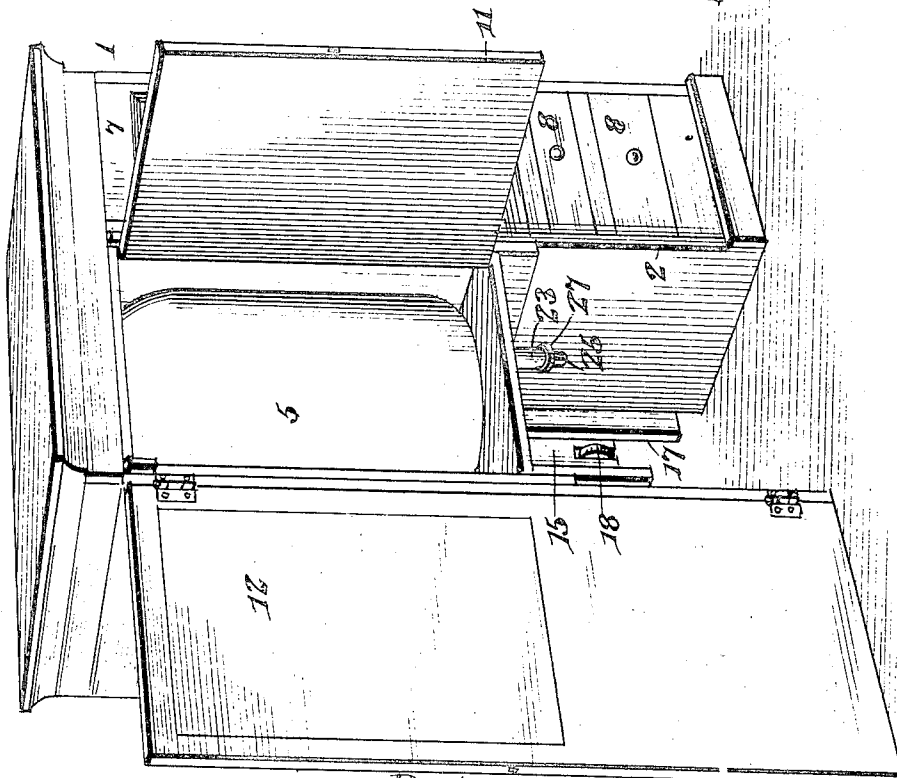


Fig. 3.



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UNITED STATES PATENT OFFICE.

BENJAMIN WOOD PATTINSON, OF MANITOU, COLORADO.

FOLDING COT AND BATH-TUB CABINET.

No. 898,598.

Specification of Letters Patent.

Patented Sept. 15, 1908.

Application filed April 21, 1906. Serial No. 313,042.

To all whom it may concern:

Be it known that I, BENJAMIN WOOD PATTINSON, a citizen of the United States, residing at Manitou, in the county of El Paso and State of Colorado, have invented a new and useful Folding Cot and Bath-Tub Cabinet, of which the following is a specification.

The invention relates to a folding cot and bath tub cabinet.

The object of the present invention is to provide a simple and comparatively inexpensive folding cot and bath tub cabinet, designed particularly for use in Pullman and similar cars, and other places where the space is limited.

A further object of the invention is to provide a cabinet of this character, which may be arranged in the form of a wardrobe, or other article of furniture, and which will present an ornamental appearance and occupy but a comparatively small amount of space, when the parts are folded and the cabinet is closed.

Another object of the invention is to provide a foldable bath tub adapted to be concealed within the cabinet, and capable of being arranged in a horizontal position for use, and adapted to receive a mattress support to form a cot.

The invention also has for its object to provide means for enabling the bath tub to be also used for vapor baths, and to afford, when folded, a compartment for holding various articles.

Furthermore, it is the object of the invention to provide simple and effective means for automatically connecting the bath tub with a sewer or waste pipe, when the bath tub is arranged for use, and for automatically disconnecting the bath tub from such waste or sewer pipe, when the tub is folded within the cabinet.

With these and other objects in view, the invention consists in the construction and novel combination and arrangement of parts, hereinafter fully described, illustrated in the accompanying drawings, and pointed out in the claims, hereto appended: it being understood that various changes in the form, proportion, size and minor details of construction, within the scope of the claims, may be resorted to without departing from the spirit or sacrificing any of the advantages of the invention.

In the drawings:—Figure 1 is a perspective view of a folding cot and bath tub cabi-

net, the bath tub being arranged horizontally, and the mattress support being placed in position on the bath tub. Fig. 2 is a vertical sectional view taken longitudinally of the bath tub, and showing the parts arranged for a vapor bath. Fig. 3 is a perspective view, the bath tub being folded within the cabinet, and the bottom door of the frame of the bath tub being open. Fig. 4 is a rear elevation.

Like numerals of reference designate corresponding parts in all the figures of the drawing.

1 designates a cabinet, which, when closed, presents the appearance of a wardrobe, and which may be constructed of any suitable material to adapt it for use within a Pullman or similar car, or for use within an apartment of a small house, flat, or other place where the space is limited. The cabinet is preferably divided by an intermediate vertical partition 2, which is spaced from the end wall 3, to form a compartment 4. The compartment 4 is adapted to receive a bath tub 5, and the space between the partition 2 and the other end wall 6, may be utilized in any desired manner. In the accompanying drawings, the upper portion of this space forms a locker, and is closed by a door 7, and the lower portion receives a series of drawers 8.

The bath tub, which is adapted to be arranged in a horizontal position for use, as illustrated in Figs. 1 and 2 of the drawings, is provided with a supporting frame 9, and is connected at its inner end with the back wall of the compartment 4 by means of hinges 10, located at the upper edge of the inner end of the bath tub, and adapted to permit the latter to swing upwardly and fold within the cabinet, as illustrated in Fig. 3 of the drawings.

The frame 9 of the bath tub consists of side and end walls, and is provided with a bottom door 11, which is arranged at the front of the cabinet, when the bath tub is folded, and which, when open, is adapted to afford access to the interior of the frame 9.

The bath tub, which is of the usual configuration, has its bottom portion spaced from the sides of the frame 9, and the door 11, the space being adapted for holding various articles, such as the bed clothing of the cot, hereinafter described. The door 11 is hinged at one of its side edges, and is provided at the free edge with suitable means for securing it in its closed position.

When the bath tub is folded within the compartment 4, it occupies the upper por-

tion thereof, and a lower compartment or space is thereby provided for holding various articles, which are removed prior to swinging the bath tub downward for use. A door 12 is hinged to the front edge of the end wall 3, for closing the compartment 4, when the bath tub is folded within the same.

The cabinet is provided with counterbalancing mechanism for enabling the bath tub to be conveniently swung upwardly and downwardly. This mechanism comprises a pair of flexible connections 13, connected to the bath tub at the upper edges of the sides at points between the ends thereof, and they extend over guide pulleys 14, mounted in suitable openings of the rear wall of the compartment 4. The other ends of the flexible connections are secured to vertically slidable weights 15, which are mounted in suitable guides 16, of the rear wall of the cabinet. The guides are located on the exterior of the rear wall, and consist preferably of vertical bars 17, and strips or flanges, which project inwardly to confine the weights between the bars. The weights are provided with upper and lower anti-friction wheels 18, and they have slots 20 extending downwardly from the upper ends of the weights, and adapted to receive the flexible connections, whereby the weights, when raised, project above the flexible connections, as clearly shown in Fig. 4 of the drawings.

Within the cabinet is arranged means for supplying hot and cold water to the bath tub. This means may consist of a pair of faucets 21, located above the inner end of the bath tub, when the latter is in a horizontal position, and designed to be connected with suitable surface pipes (not shown). The spigots or faucets project into the bath tub, when the latter is folded, and they do not interfere with the folding of the bath tub within the cabinet.

The bath tub is provided at the bottom, adjacent to its inner end, with an outlet, which is connected with a waste pipe 22, by a separable pipe connection, composed of two sections or members 23 and 24. The section or member 23, which is approximately L-shaped, extends downwardly from the bottom of the bath tub, and has a lower horizontal portion, which terminates in a nipple 25. The other section or member 24 is in the form of an elbow coupling, and extends upwardly from the floor, and is provided with an upper horizontal portion, having a socket 26 to receive the nipple. The nipple is carried automatically into and out of engagement with the socket, and a shoulder 27 is formed at the inner end of the nipple, and is adapted to provide a convenient seat for a packing, if found desirable. The nipple and the socket are tapered to form a tight connection, and as it is impossible for the sections or member of the separable pipe con-

nection to become disconnected, when the bath tub is in a horizontal position, there will be no danger of leakage from such a cause. The waste pipe 22 is connected with the bottom of a trap 28, which has an outlet pipe 29, and which is also provided with a removable cap 30, located above the floor. The trap is also provided at its upper end with a projecting supporting flange 31, which is adapted to rest upon the floor, as clearly shown in Fig. 2 of the drawings.

The bath tub is adapted to receive a mattress support 32, consisting of a plurality of longitudinally disposed slats 33, which are connected by transverse bars 34. The transverse bars 34 are angularly bent at their terminals to form shoulders 35 and hooks 36, for engaging the upper edges of the sides of the bath tub. The shoulders are arranged at the inner faces of the sides of the bath tub, and hold the mattress support 32 against lateral movement. A mattress of the ordinary construction is adapted to be placed on the mattress support, which, with the bath tub, forms a convenient cot. The mattress support, with the exception of the hooks, lies within the bath tub, so as not to interfere with the folding of the same within the cabinet. The bending of the terminals of the transverse connecting bars not only forms the said shoulders 35, but also depresses the slats in the position described. The longitudinal slats, while being located wholly within the bath tub, have their upper faces arranged close to the upper edges of the said bath tub to permit a mattress to rest upon both the upper edges of the tub and the support, whereby the latter is relieved of excessive strain.

A canopy 37 may be arranged over the bath tub, as shown in Fig. 2, for furnishing a vapor bath, and the vapor may be supplied in any suitable manner. The canopy 37, which is designed to be constructed of suitable waterproof material, consists of side walls 38, an outer end wall 39, and a horizontal top 40. The side and end walls are vertical, and extend downward to within a short distance of the floor. The sides also extend from the outer end wall to a point within the compartment 4, and the top wall extends substantially to the rear wall.

The canopy is provided with an oblong supporting frame composed of parallel sides 41, and a connecting outer end portion 42. The inner terminals of the sides are bent downward to form engaging portions or hooks 43, which fit in eyes 44. The eyes 44 are provided with attachment flanges or portions, which are secured to the rear wall of the compartment 4. The top of the canopy is provided with a suitable aperture 45, through which the head of the bather projects. The canopy is adapted to be compactly folded.

Having thus fully described my invention, what I claim as new and desire to secure by Letters Patent, is:—

1. The combination with a cabinet, of a bath tub foldable within the cabinet, said bath tub being provided with a surrounding frame forming a compartment and having a door located at the bottom of the bath tub when the latter is in use, and arranged at the front of the cabinet when the bath tub is folded within the same.

2. The combination with a bath tub, of a mattress support consisting of spaced longitudinal slats, and transverse connecting bars having terminal hooks detachably engaging over the upper side edges of the bath tub and supporting the said longitudinal slats wholly within the bath tub and with their upperfaces close to the upper edges of the bath tub to permit an ordinary mattress to rest upon and be supported by both the upper edges of the bath tub and the mattress support.

3. The combination with a cabinet, of a bath tub foldable in the same and projecting beyond the cabinet when in a horizontal position, eyes mounted within the cabinet and located above the inner end of the bath tub when the latter is in a horizontal position, a fabric canopy inclosing the projecting portion of the tub, and an oblong supporting frame receiving and connected with the canopy and composed of sides and a connecting outer portion, the inner terminal of the sides being bent downwardly to form hooks, the latter detachably engaging the said eyes and

being adapted to be removed therefrom to permit the canopy to be detached.

4. The combination with a cabinet, of a bath tub foldable within the same and projecting beyond the cabinet when in a horizontal position, a fabric canopy inclosing the projecting portion of the tub and provided with an extension arranged over the portion of the tub within the cabinet, and a supporting frame connected with the canopy at the side edges of the top and detachably interlocked at its inner end with the cabinet.

5. The combination of a cabinet having a compartment and provided in the rear wall thereof with openings, pulleys mounted in the openings, a bath tub foldable within the compartment, guides arranged on the exterior of the rear wall of the compartment and extending above the pulleys, flexible connections arranged on the pulleys and connected to the tub, and weights slidable in the guides and attached at their lower portions to the flexible connections, said weights being provided in their upper portions with slots receiving the flexible connections and permitting the weights to extend above the pulleys.

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

BENJAMIN WOOD PATTINSON.

Witnesses:

HOMER HAYS GRAFTON,
CHARLES MEADOR.