March 6, 1928.

1,661,221

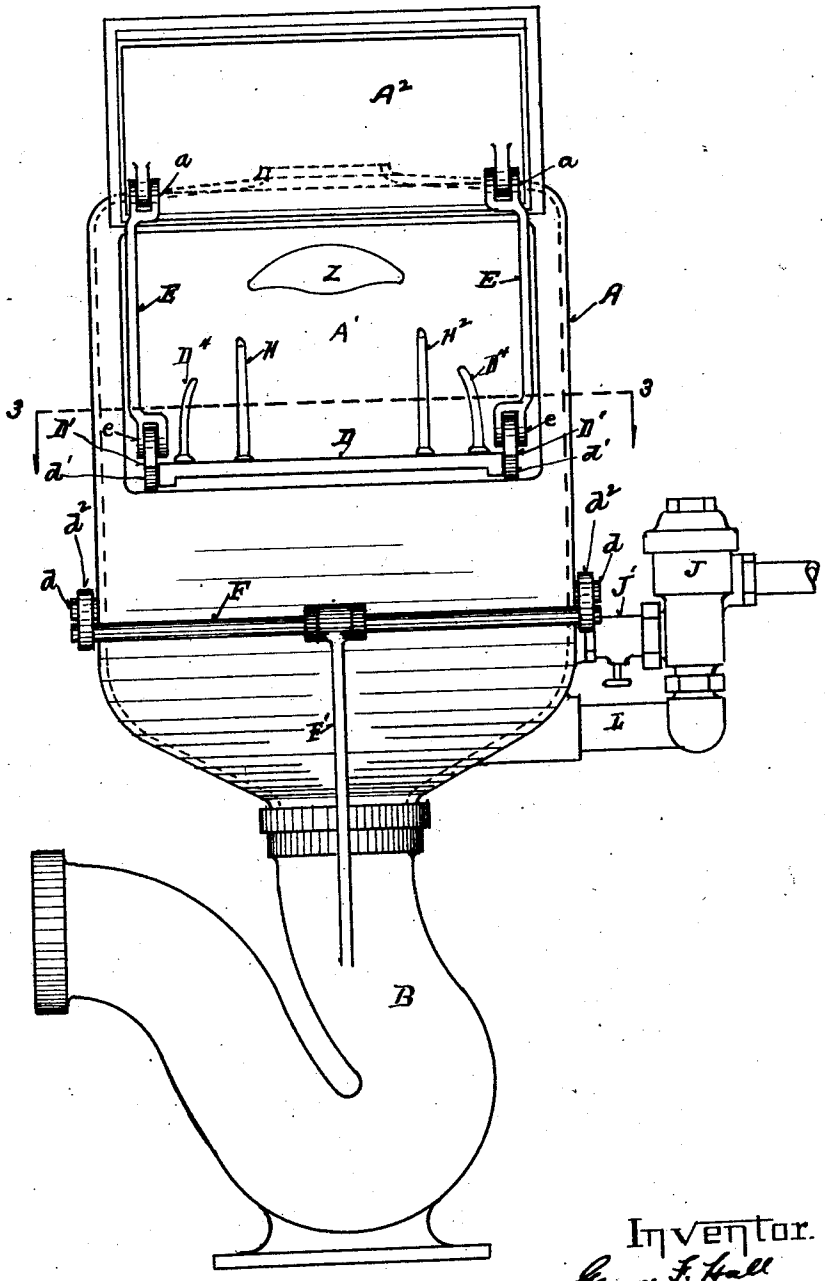
G. F. HALL

BEDPAN WASHER

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3 Sheets-Sheet 1

Fig. 1.



Inventor.
George F. Hall
By Williamson
Atty

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G. F. HALL

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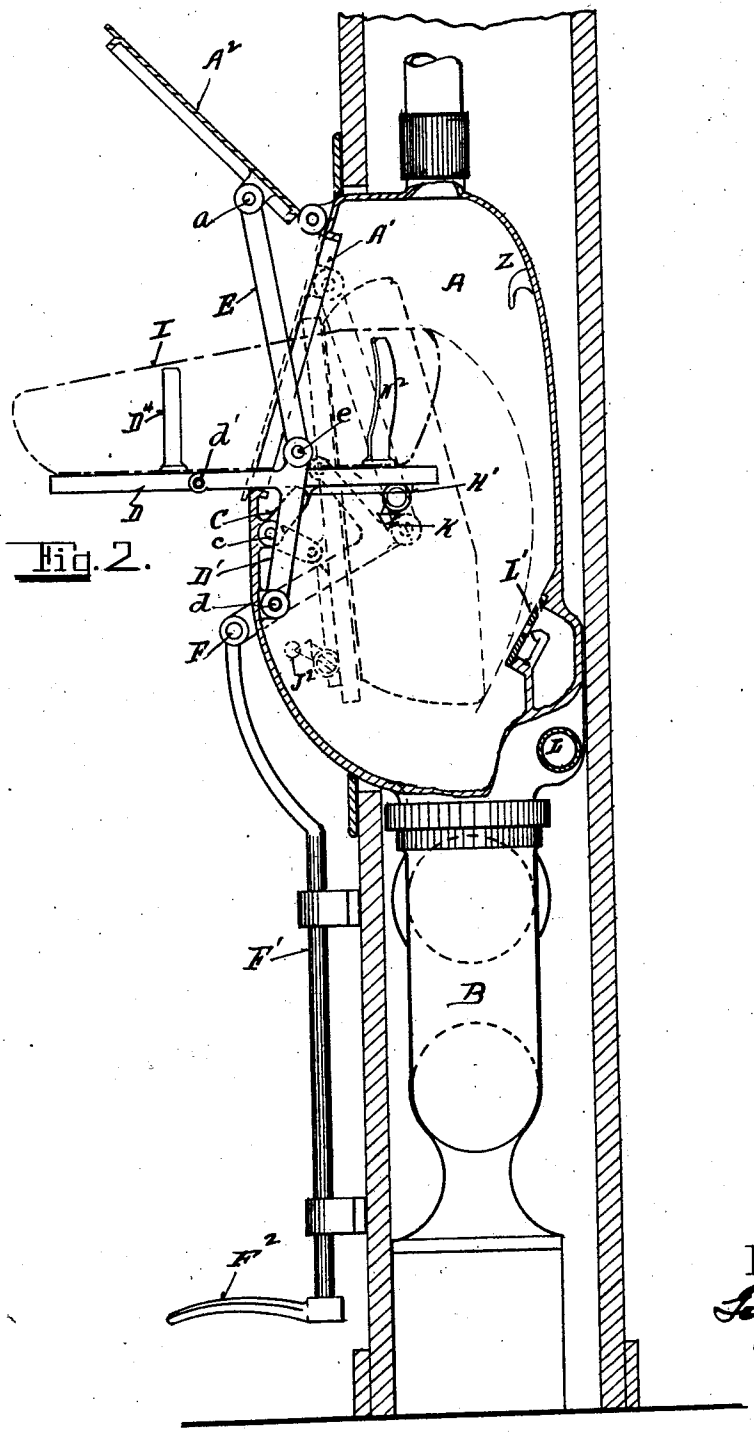


Fig. 2.

Inventor.
George F. Hall
By Hill Sturgeon
Atty.

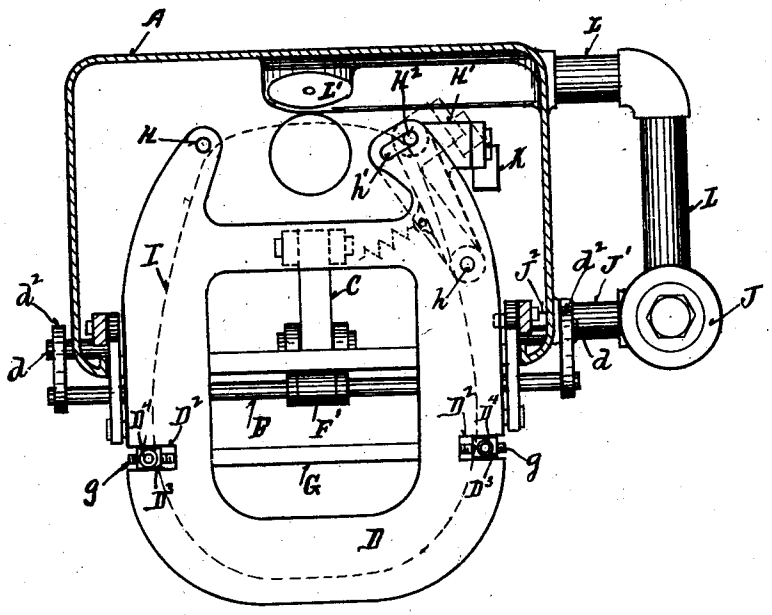
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G. F. HALL

BEDPAN WASHER

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Fig. 3



Inventor.
George F. Hall.
By H. Hollstangen atty

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UNITED STATES PATENT OFFICE.

GEORGE F. HALL, OF ERIE, PENNSYLVANIA.

BEDPAN WASHER.

Application filed December 15, 1926. Serial No. 155,012.

This invention relates to sanitary apparatus, and particularly to bed-pan washers, such as are used in hospitals where there are a large number of such articles to wash each day.

The object of this invention is to provide a bed pan-washer in which a bed-pan can be placed and then by closing the door the bed-pan will be emptied and washed.

In carrying out this invention a chamber is provided having therein a tilting holder, upon which a bed-pan is placed and secured, and which when the door is closed is caused to swing into the chamber, and tip over and water is caused to be injected into the pan, and the contents thoroughly washed out and into the sewer with which the chamber is connected, and when the bed-pan is emptied, the door is opened swinging the holder back up, and the cleansed pan is removed.

The features of this invention are hereafter fully explained and pointed out, and are illustrated in the accompanying drawings in which:

Figure 1 is a front elevation of this invention, with the door open, and the bed-pan holder in position to receive a bed-pan.

Figure 2 is a vertical central section of the chamber, with the holder in elevation therein.

Figure 3 is a transverse section of the same on the line 3—3 in Fig. 1.

In these drawings A indicates a box like chamber having an opening A′ in the front thereof which is closed by a door A^2 hinged at the upper edge thereof to the chamber A so that the opening A′ is closed by the door A^2 when it is swung down. The lower end of the chamber A is connected to a trap B which connects with a sewer pipe (not shown).

Secured to the inside of the body by means of a link bar C which is hinged to the wall of the chamber by a pivot *c* is a bed-pan holder D which projects out of the opening A′ of the chamber, when the door A^2 is in the open position shown in Fig. 2 of the drawings. The link bar C is secured to an ear on the under side of the holder frame D shown in broken lines in Fig. 3. At each side of the holder D is a bell-crank lever D′ one end of which is hinged to the inner surface of the chamber A by means of a pivot, *d*, and the other end thereof is pivoted to the holder by means of a pivot *d′*, and from the angle of the bell-crank lever D, a link bar E extends upward to and is pivoted to the door A^2 by means of the pivot *a*, the lower end of said link-bar E being pivoted to the bell-crank-lever D′ by means of the pivot *e* so that when the door A is swung downward to close the opening A′ the bed-pan holder frame will be thereby swung into the chamber A in the position thereof shown by broken lines in Fig. 2. The pivot shaft *d* projects outward through the walls of the chamber A as shown in Figs. 1 and 3 where it is provided with levers d^2, the free ends of which levers d^2 being connected by a rod F to which is secured a treddle rod F′ having a foot piece F^2 thereon. The bell-crank-levers at each side of the bed-pan frame D being non-rotatably secured on the pivot shaft *d*. When the door A^2 is closed, and the bed-pan frame is folded into the chamber A, as shown by broken lines in Fig. 2, the foot-piece F^2 will be raised upward, so that by placing the foot upon the foot-piece F^2 and pressing downward thereon, the door A^2 will swing open and the bed-pan frame will be returned to the position thereof shown by full lines in Fig. 2.

In each edge of the bed-pan holder frame D are cut slots D^2 in which are placed sliding blocks D^3 in which are mounted holder fingers D^4, and extending across the frame D is a hand rod G having right and left hand screw threaded ends *g* which engage the clocks D^3, so that by turning the hand rod G in either direction the clocks with their fingers D^4 can be moved toward or away from each other according to the size of the bed-pan placed on the carrier.

At the rear end of the holder frame D is a stationary upright finger H, and at the opposite corner of the holder frame D is a spring-pressed movable lever H′ pivoted to the frame D by a pivot *h*, and by inserting through the slot *h′* a finger H^2 and screwing it into the lever H′, a bed-pan placed on the frame D between the fingers D^4 and pushing it back against the fingers H and H^2 at the rear end of the holder frame D, the finger H^2 will cause the lever H′ to swing outward, the spring shown in broken lines in Fig. 3 holding the finger H^2 snugly against the pan. In Fig. 3, the broken line I indicates the line of a bed-pan placed on the frame D.

To furnish water for washing the bed-pan after the same has been tipped over in the chamber, as indicated by broken line I in

Fig. 2, a Sloan valve J is preferably provided, see Figs. 1 and 3, an adapter J′ being provided, which carries a trigger J^2 which extends through the wall of the chamber A into the line of the travel of the member K secured to the swinging lever H′ on the bed-pan frame D, so that when the holder D is folded into the chamber in the position thereof shown by broken lines in Fig. 2 the member K will engage the trigger J^2 and trip the valve J allowing water to rush through the pipes L to the spray nozzle L′ see Fig. 2.

From the foregoing it will be evident that unless a bed-pan is first placed on the holder frame D the member K will not engage the trigger J^2 of the valve and no water will flow through the jet nozzle L′ when the door A^2 is closed.

Having thus fully shown and described this invention so that others can utilize the same, I do not desire to be limited to the exact mechanism shown, as many modifications can be made therein without departing from the scope of this invention, but what I claim as new and desire to secure by Letters Patent is:

1. In a bed-pan washing apparatus, the combination of a hollow box-like structure having an opening in one side thereof, a door hinged at one edge of said opening and adapted to close said opening, a holder frame hinged to said box-like structure, and to said door, whereby when said door is closed said holder frame is folded into said box, a jet spray adapted to direct a jet of water against the upper side of said holder frame, means to secure a bed-pan on said holder, and a valve mechanism adapted to be tripped by said holder when a pan is secured thereon and it is folded into said box, whereby said pan will be cleansed.

2. The combination in a bed-pan washing mechanism, of a hollow receptacle, having an opening through the front thereof, a door to close said opening, a bell-crank lever pivoted to the inside of said receptacle adjacent to each side of said opening, and bars pivoted to said door and to each of said bell-crank levers, a bed-pan holder frame pivoted in said opening between said levers, and to said receptacle, means to secure a bed-pan on said frame, valve tripping means adapted to be moved laterally when a pan is in place on said frame, and a valve mechanism adapted to be tripped by said tripping means when said door is closed and said frame and pan thereon is folded into said receptacle.

3. The combination in a bed-pan washing apparatus, a receptacle having an opening in the front side thereof, a bell-crank lever pivoted in said receptacle with one arm thereof projecting outward through said opening at each side thereof, and bars pivoted to said door and to each of said bell-crank levers, a bed-pan holder frame between said bell-crank levers within said opening and pivoted to each of said levers, a link bar pivoted to said receptacle and to said holder frame, whereby said holder frame will fold into said receptacle when said door is closed, a lever pivoted to said holder frame, valve tripping means on said lever to engage and trip a water admission valve, when a bed-pan is secured thereon and the door is closed, and a jet mechanism in front of said pan, a valve mechanism having a trigger projecting in front of said receptacle in the path of said valve tripping means, and means adapted to convey water from said valve to said jet mechanism.

4. In a bed pan washing apparatus, the combination of a hollow receptacle, a spray jet mounted within said receptacle, a valve for said jet having a trigger extending into said receptacle, a frame adapted to receive and retain a bed pan, and means to support said frame and swing the same inward to engage said trigger to trip said valve.

5. In a bed pan washing apparatus, the combination of a hollow receptacle, a spray jet mounted within said receptacle, a valve for said jet, a trigger extending from said valve into said receptacle, a frame adapted to receive and retain a bed pan thereon, means to carry said frame and bed pan thereon into said receptacle, and means to invert said frame to engage said trigger whereby said valve will be tripped.

In testimony whereof I affix my signature.

GEORGE F. HALL.