

July 26, 1932.

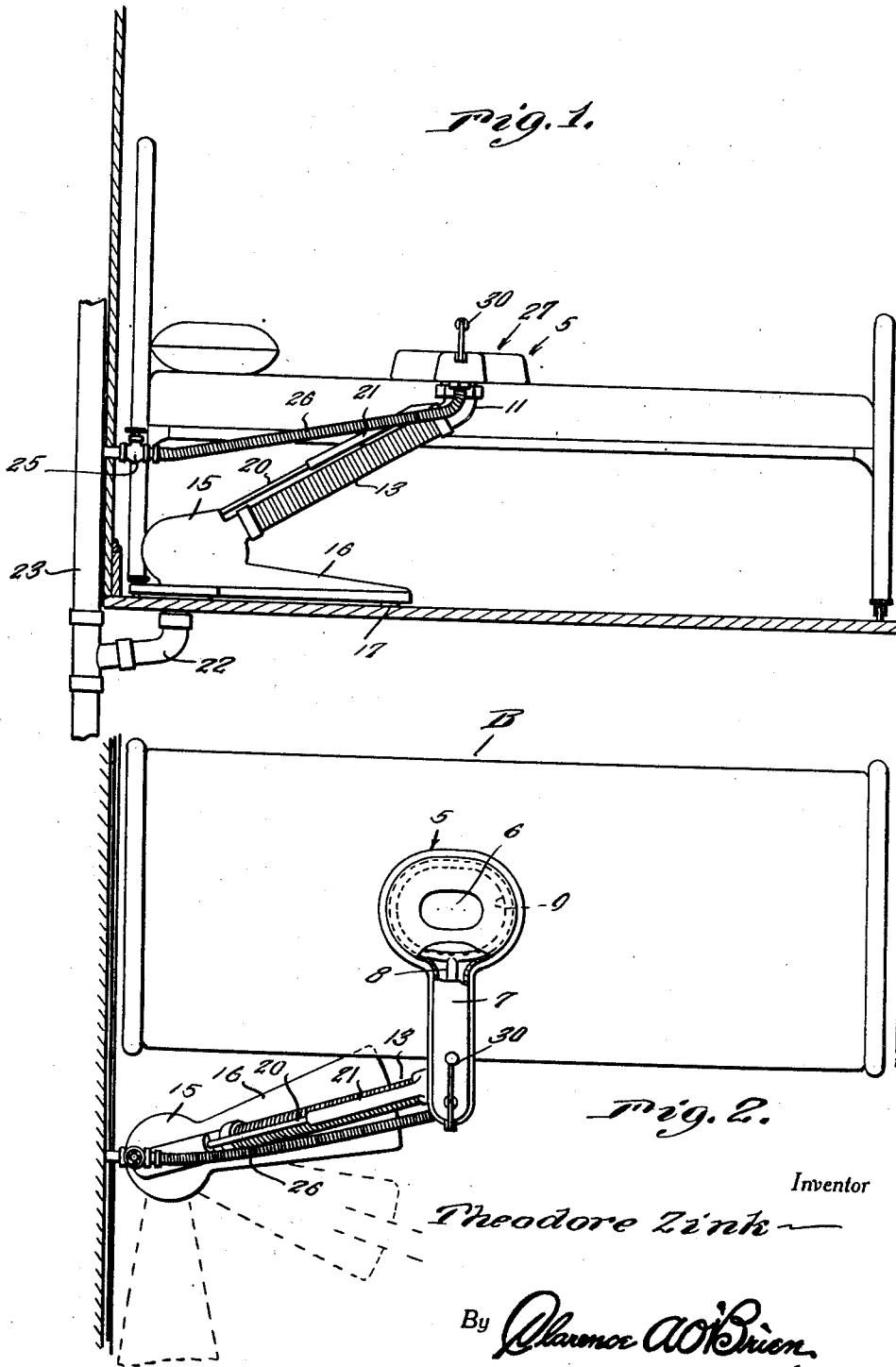
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1,869,036

SANITARY BEDPAN

Filed Oct. 9, 1931

2 Sheets-Sheet 1



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Fig. 3.

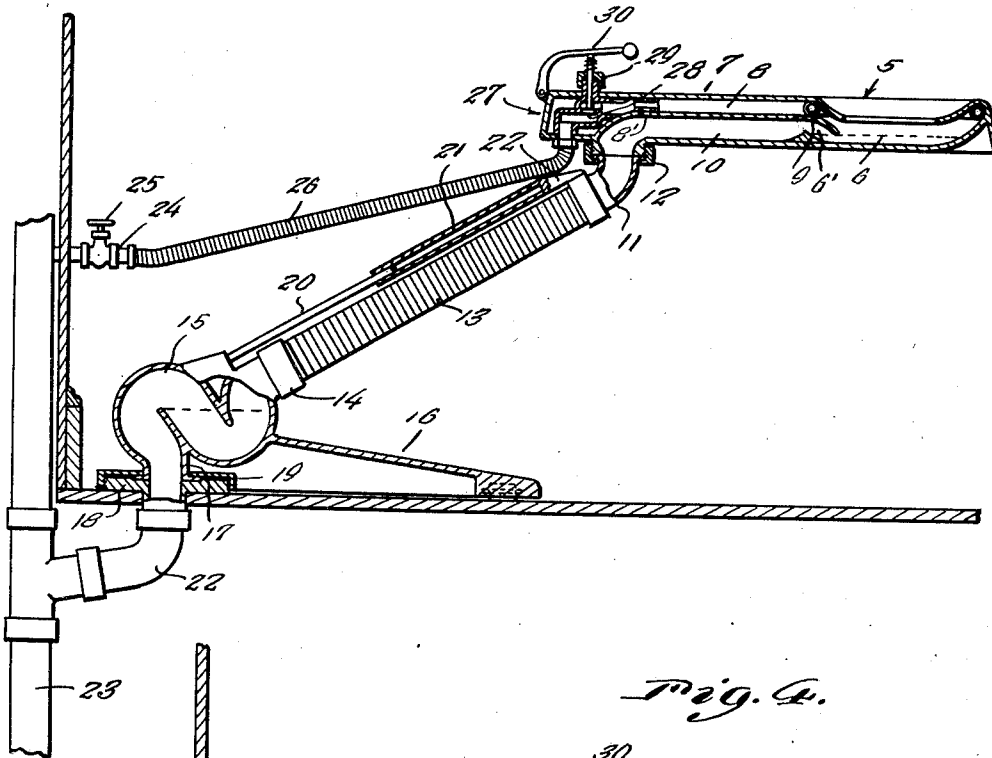
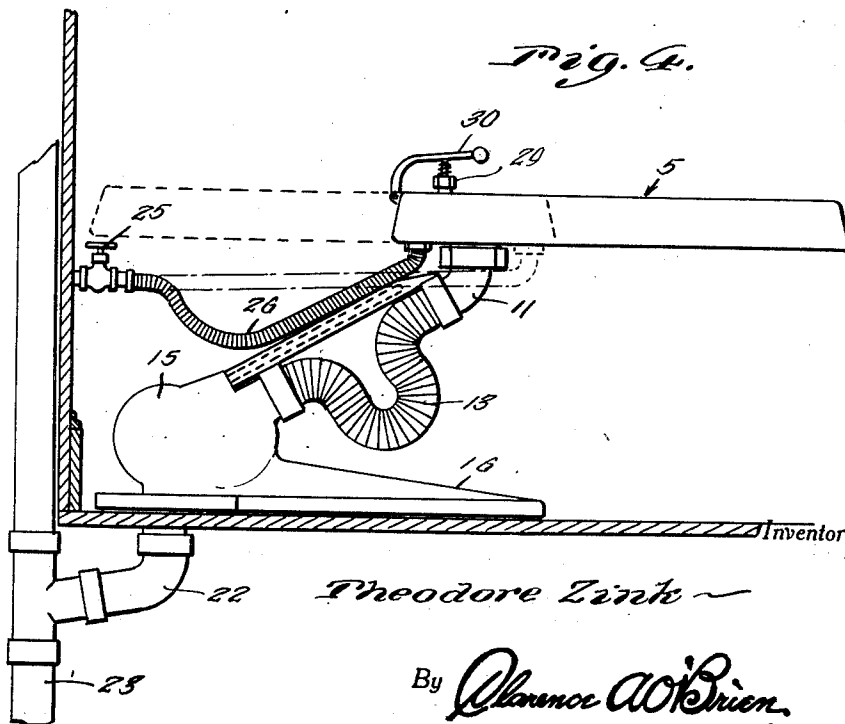


Fig. 4.



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SANITARY BEDPAN

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This invention relates to certain new and useful improvements in bed pans, and the primary object of this invention is to provide a bed pan connected with a sewer or stand pipe whereby water may be supplied to the bed pan for flushing the same and carrying the waste matter from the pan to the sewer.

A still further object of the invention is to provide a bed pan of the character above mentioned, which may be located adjacent to a bed, whereby to enable the patient in bed, unable to summon an attendant or not wishing to, as the case may be, to use and flush the pan when desired.

Other objects and advantages of the invention will become apparent from a study of the following description, taken in connection with the accompanying drawings wherein:

Figure 1 is an elevational view of the bed pan, the same being shown placed in position on the bed.

Figure 2 is a top plan view thereof.

Figure 3 is a sectional elevational view thereof.

Figure 4 is an elevational view, showing the pan in a retracted or out of the way position.

With reference more in detail to the drawings, it will be seen that the bed pan, designated generally by the reference character 5, is provided with an internal circular chamber 6 and a hollow extension 7 the interior of which communicates with the chamber 6. Arranged in the upper portion of the extension 7 is a pipe 8 which at its inner end terminates in an endless perforated discharge head 9 for supplying water to the chamber 6 for flushing the bed pan. This head 9 is located under the usual downward sloping seat forming flange of the pan. The lower portion of the extension 7 provides an outlet passage 10 for the chamber 6, a restricted trap 6' connecting chamber 6 with outlet passage 10. A pipe section or elbow 11 has a rotatable connection with the extension 7 as at 12, and this section 11 is also connected to one end of a flexible pipe 13 that is connected as at 14 to the inlet side of a trap 15.

The trap 15 is provided on a base member 16 which latter is equipped with rollers or other anti-friction means 17 to facilitate movement of the base 16 over the floor or similar supporting surface.

The trap 15 is provided with a vertical outlet neck 17 that is flanged, the flanged end of the outlet neck resting on a plate 18 resting flatly on the floor. Disposed over the plate 18 is a flanged coupling plate 19 that is centrally apertured for receiving the neck 17.

Thus a rotatable connection is provided between the trap and plate 18 forming an axis about which the base 16 may be rotated for moving the base either into a cabinet (not shown) or for swinging the base 16 into a position paralleling an adjacent wall of the room, or as shown in Figure 1 to a position at substantially right angles to the wall. For bracing the bed pan 5 with respect to the base 16, there is provided a brace which includes a fixed rod 20, fixedly secured at one end to the wall of the trap 15 and extending upwardly and angularly with respect to the perpendicular, and a tube 21 that is fixed at one end as at 22' to the pipe section 11 and slidably receiving a part of the rod.

From the foregoing it will be apparent, that when the bed pan is to be used, the flexible pipe 13 is extended, and the parts are in the position shown in Figures 1 to 3 inclusive, whereby the bed pan 5 is suitably raised above the floor and may rest on the bed B, the connection 12 permitting the bed pan 5 to be swung at right angles to the axis of the pipe 13 as clearly suggested in Figure 2.

The plate 18 is provided with a nipple to which is suitably coupled one end of an elbow or pipe section 22, the same being also coupled to a branch of a T-coupling arranged in a stand or sewer pipe 23.

According to the present invention, a water pipe 23 is provided with a branch 24 in which is disposed a manually operable valve 25, and this branch has coupled to the free end thereof one end of a flexible pipe 26, the free end of which is suitably coupled to the inlet side of

a flush valve 27 provided at the free end of the bed pan extension 7.

The flush valve 27, preferably consists of a casing which may if desired be formed as a continuation of the extension 7, and the outlet side of the valve is suitably coupled to the pipe 8. The valve 27 also includes a suitable valve seat and a disk valve member 8 the stem of which extends upwardly and is slidable through a suitable gland structure 29. The stem has a suitable spring or other means associated therewith for normally urging the stem upwardly to retain the valve member against its seat. Through the medium of this spring, the stem is normally engaged with a suitably mounted pivoted operating lever 30.

From the foregoing, it will be apparent that after use of the bed pan, the same may be flushed by pressing lever 30 opening the valve 27 whereby water from the water pipe will pass therefrom through the pipe 26, valve 27, pipe 8, and discharged through the perforations in the pipe head 9 into the chamber 6, washing the waste material from the chamber through the outlet passage 10 and pipe 13 into the trap 15 to pass therefrom into the sewer pipe 23. In this connection, it is to be noted, that the trap 6' serves to retain water in the chamber 6 to the level suggested in Figure 3 to thereby provide a seal against sewer gas that might escape beyond the trap 15. It is also to be noted, that pipe 8 adjacent that end thereof connected with valve 27 is provided with an opening registering with an opening in the passage 10 as at 8' so that, upon flushing of the bed pan, only sufficient water will pass from the pipe 8 through the head 9 into the chamber 6 as is necessary for flushing the chamber.

While the major amount of water will pass through the opening 8' into the passage 10 to pass downwardly through the pipe 13 to break the seal in the trap 15 thus providing for sufficient suction to draw the waste matter from the chamber 6 to carry the same to the sewer pipe.

In this particular instance it may be noted that the trap 15 serves substantially the same purpose as traps now employed in usual toilet bowl construction, and in the present instance increases the sanitation of a bed pan of this character.

From the foregoing then it will be seen that I have devised a bed pan especially adaptable for use in hospitals, and the like for the accommodation of bedridden patients and that in accordance with the present invention adequate provision is made for the carrying off of the waste material, and further, providing for a bed pan that when not in use may be quickly and easily removed to an out of the way position, and reduced to a relatively small compass.

Even though I have herein shown and de-

scribed the preferred embodiment of the invention, it is to be understood that the same is susceptible of further changes, modifications and improvements coming within the scope of the appended claims.

Having thus described my invention, what I claim as new is:

1. In combination with a bed pan having a water inlet passage and a discharge passage, a flexible pipe connecting the inlet passage with a water supply pipe, valves for controlling the flow of water thru the passage, a trap at the point of connection of the discharge passage with the pan, for holding a certain amount of water in the pan to seal the discharge passage, a trap connected with a sewer, a flexible pipe connecting the last mentioned trap with the discharge passage, a telescoping brace connecting the last-mentioned trap with a part of the pan, said brace paralleling the flexible pipe connected with the discharge when said flexible pipe is extended.

2. In combination with a bed pan having an extension provided with an inlet passage and a discharge passage, a flexible pipe connecting the inlet passage with a water supply pipe, a trap rotatably connected with a stand pipe leading to a sewer, a base connected with the trap and having rollers associated therewith for engaging a support, a flexible pipe connecting the discharge passage with said trap, a valve controlling the flow of water to the inlet passage and a telescopic brace connecting the trap with a part of the extension.

In testimony whereof I affix my signature.
THEODORE ZINK.