W. C. DE WENDT.

INVALID BED.

APPLICATION FILED SEPT. 2, 1914.

1,227,399. Patented May 22, 1917.

2 SHEETS—SHEET 1.

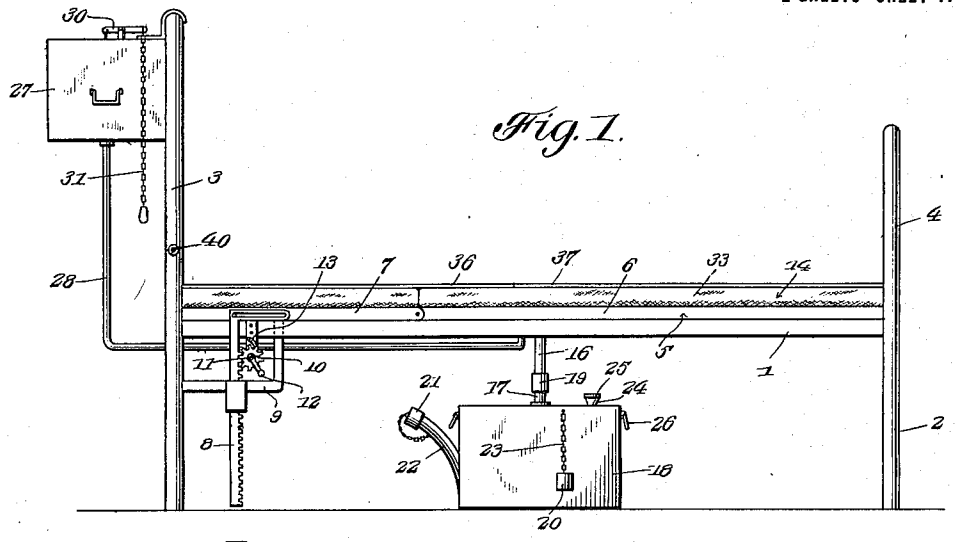

Fig. 1.

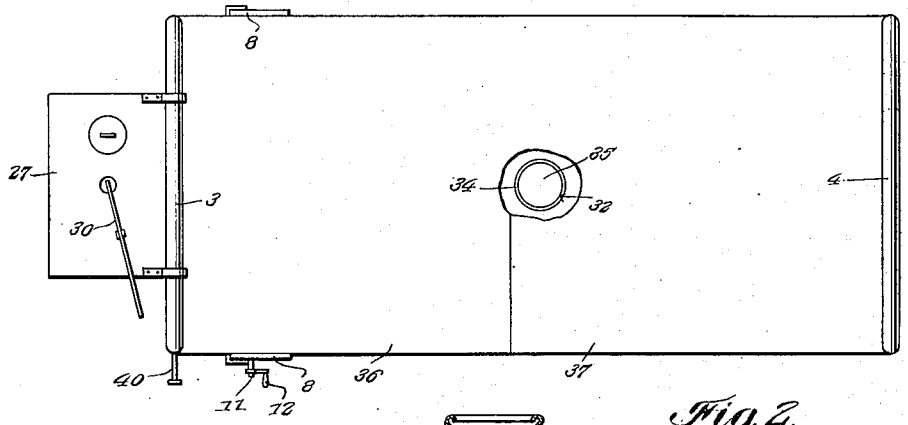

Fig. 2.

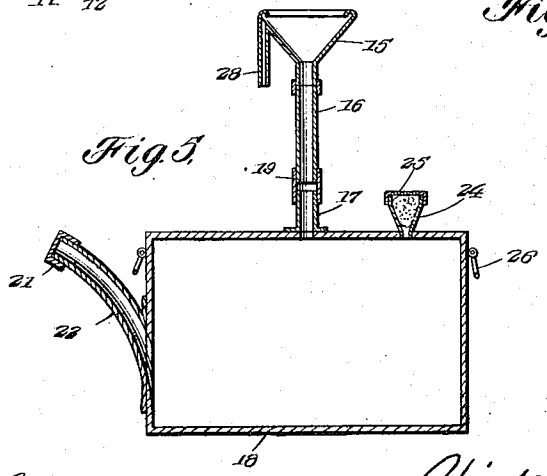

Fig. 5.

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2 SHEETS—SHEET 2.

Fig. 3.

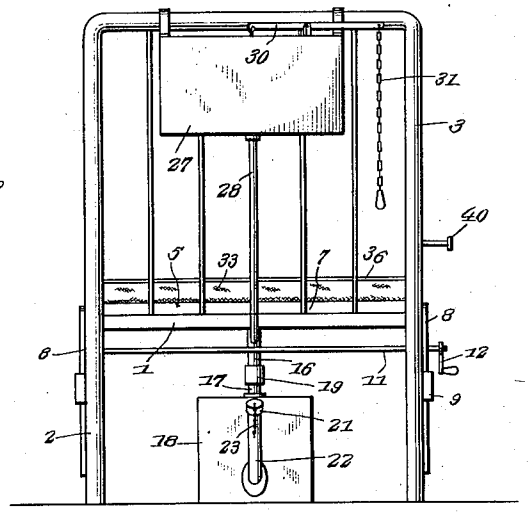


Fig. 4.

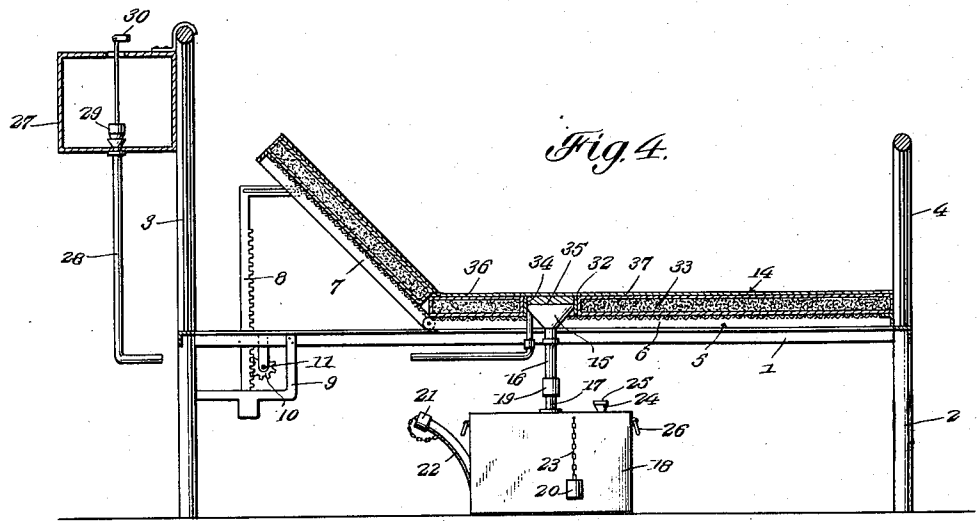


Fig. 6

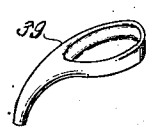
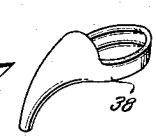


Fig. 7.



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INVALID-BED.

1,227,399. Specification of Letters Patent. Patented May 22, 1917.

Application filed September 2, 1914. Serial No. 859,839.

To all whom it may concern:

Be it known that I, WILLIAM C. DE WENDT, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented new and useful Improvements in Invalid-Beds, of which the following is a specification.

This invention relates to beds and more particularly to invalid beds.

The principal object of the invention is to provide a device of the character described in which an invalid can help himself or herself to a great extent without the aid of a nurse and without placing the nurse in an embarrassing position, particularly when the invalid is a man.

Another object of the invention is the provision of a bed of the character described having a novel, simple and efficient means for disposing of the urine and excrement in a sanitary manner without the aid of a nurse.

Another and essential feature is the provision of simple and conveniently operated means for raising and lowering a portion of the bed whereby the patient may sit up or occupy a reclining position.

Further objects of the invention will appear as the following description is read in connection with the accompanying drawing, which forms a part of this application, and in which:—

Figure 1 is a side elevation.

Fig. 2 is a top plan view.

Fig. 3 is an end elevation.

Fig. 4 is a longitudinal section showing the head of the bed raised.

Fig. 5 is a detail vertical longitudinal section showing the construction of the bowl and its associated parts.

Fig. 6 is a perspective view of the female funnel.

Fig. 7 is a similar view of the male funnel.

Referring more particularly to the drawings, 1 represents a bed frame of ordinary construction which is supported on the legs 2 as is usual and has connected thereto the head and foot sections 3 and 4, respectively. Mounted on the frame 1 is a spring mattress frame 5 constructed in two sections 6 and 7 hinged together so that the section 7 may be raised to support the invalid in reclining position or to be used as a back when the patient is sitting up. The section 7 is raised and lowered by a pair of rack bars 8 pivotally connected to said section and slidably mounted in angular brackets 9 connected to the frame 1 and legs 2, and engaged by the pinions 10. These pinions 10 are secured adjacent opposite ends of a transverse shaft 11 journaled in bearings depending from the frame. A crank 12 is mounted upon either squared end of the shaft 11 for rotating the same and the parts are held in adjusted position by pawls 13 engaged with the pinions.

Secured to the spring mattress structure 14 which is bridged across the frame 5 is a closet bowl 15 having a discharge pipe 16 depending therefrom. This pipe 16 is connected to a nipple 17 on the receiving tank 18 by means of a flexible coupling 19 which is readily uncoupled so that the tank may be removed from beneath the bed for emptying. The nipple 17 can be closed by a cap 20 when the tank is disconnected from the discharge pipe 16 and a similar cap 21 normally closes the discharge and flushing spout 22. Both caps are preferably connected to the tank 18 by chains or other flexible connectors 23 so as to prevent loss.

Extending vertically from the top of the tank 18 is a funnel 24 having a perforated cap 25 and in this funnel is located a sponge or other absorbent element containing a suitable disenfectant. The tank is also provided with handles 26 for carrying the same.

Secured to the head section 3 is a flushing tank 27 of any suitable or preferred construction similar to those ordinarily employed in water closets, and leading from this tank to the bowl is a flushing pipe 28 which conveys the water from the tank 27 to the bowl 15. The discharge of water from the tank 27 is controlled by a valve 29 operated by a lever 30 having a chain 31 conveniently located whereby the patient may flush the bowl when desired.

As will be seen from an inspection of the drawings, the bowl 15 extends some distance above the spring mattress structure 14 and projects into an aperture 32 formed centrally of the mattress 33 and protected by a sheathing 34 of any suitable material impervious to moisture. The aperture is closed and the bowl closed by a removable plug 35, and the mattress is preferably covered by a transversely split sheet 36 which has a flap 37 to cover the plug.

In order that this device may be properly used I employ the attachments 38 and 39 which consist of peculiarly shaped funnels, the former of which is adapted to receive the penis of the male patient and the latter of which may be placed over the vagina of the female patient. These attachments all have sufficiently long spouts to properly enter the bowl and may be used either for urinary purposes or for easing the bowel when the patient is too weak to sit up over the bowl, the attachment 39 being of sufficient size to extend over the anus.

The head of the bed has mounted thereon in convenient position to be reached by the invalid a headed stud 40 adapted to receive a roll of toilet paper.

It is thought that the foregoing will be sufficient for those versed in the art to understand the invention and the operation thereof, it being understood that many modifications may be resorted to in practice and I, therefore, do not wish to be limited to the exact construction shown but desire it understood that such changes are contemplated and may be made as are covered by the scope of the appended claim.

What is claimed is:—

In a device of the kind described, in combination a bed frame, a mattress bridged across said frame and held against movement upon said bed frame, said mattress having an opening, a head section on said bed frame, a flushing tank hooked over the top of said head section, a bowl fitting into said opening, a receiving tank under said mattress, a sectional pipe extending upwardly from said receiving tank, a pipe extending below said flushing tank and having a pipe section connected to said bowl, so that said flushing tank is held against swinging, and a coupling connecting the sections of said sectional pipe to permit the receiving tank to be removed.

In testimony whereof I affix my signature in presence of two witnesses.

WILLIAM C. DE WENDT.

Witnesses:

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CHAS. F. DE LA BASTIDE.