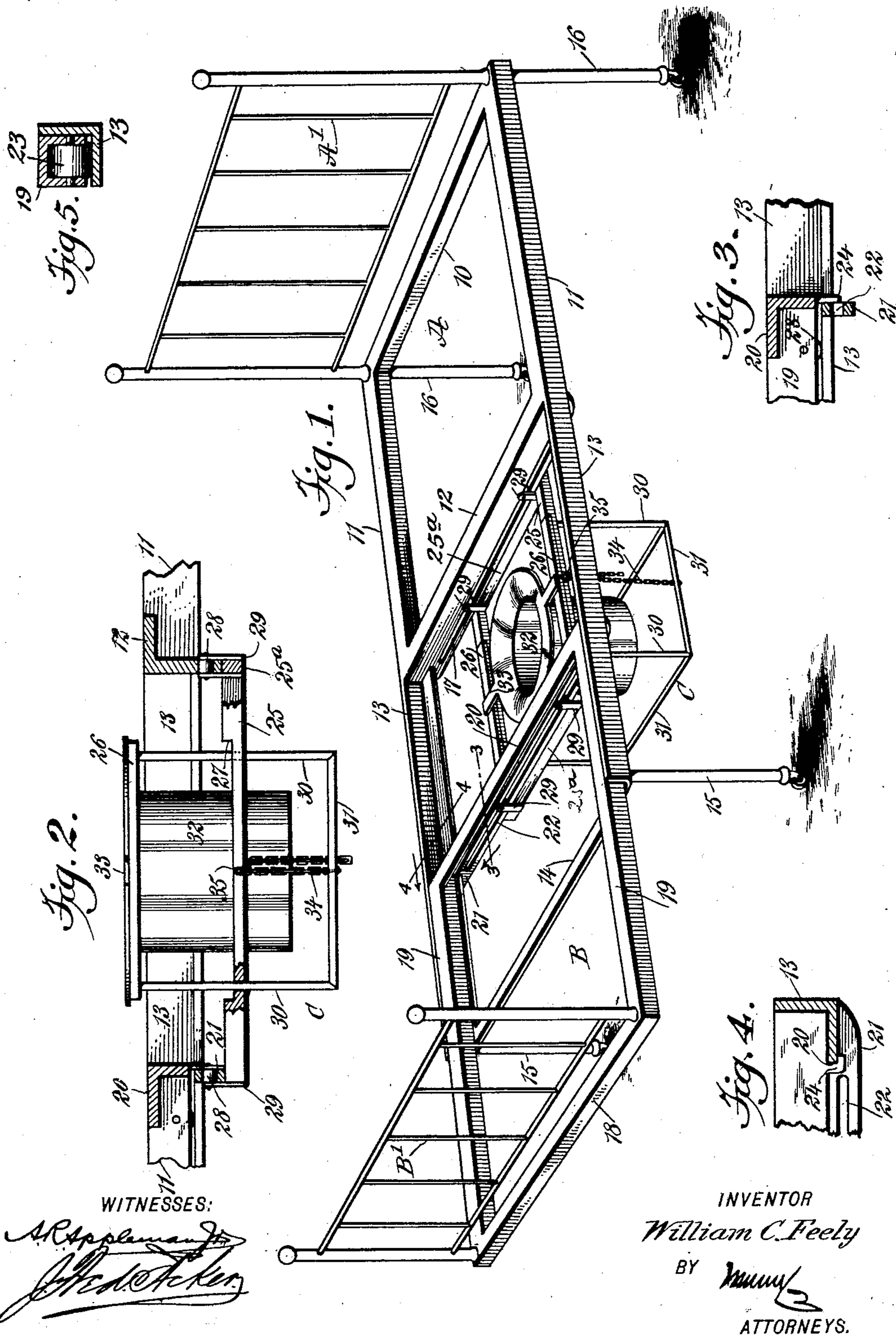


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Patented Nov. 11, 1902.

W. C. FEELY.
INVALID BED AND COMMODE.
(Application filed July 17, 1902.)

(No Model.)



WITNESSES:

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UNITED STATES PATENT OFFICE.

WILLIAM C. FEELY, OF NEW YORK, N. Y.

INVALID BED AND COMMODORE.

SPECIFICATION forming part of Letters Patent No. 713,416, dated November 11, 1902.

Application filed July 17, 1902. Serial No. 115,930. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM C. FEELY, a citizen of the United States, and a resident of the city of New York, borough of the Bronx, in the county and State of New York, have invented a new and Improved Invalid Bed and Commode, of which the following is a full, clear, and exact description.

My invention relates to invalid beds and commodes; and the purpose of the invention is to provide a simple and easily-operated construction of a telescopic bed and a commode attachment, including a support for a commode, in which the commode is removably mounted and is vertically adjustable and the connection between the said commode-support and the bed-frame enabling the support to be laterally adjusted upon the bed-frame.

The invention consists in the novel construction and combination of the several parts, as will be hereinafter fully set forth, and pointed out in the claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the figures.

Figure 1 is a perspective view of the improved bed and its commode attachment, the bed being shown open. Fig. 2 is a longitudinal section through the inner transverse bars of the bed and a central side elevation of the commode attachment, the commode being shown elevated. Fig. 3 is a longitudinal section on the line 3 3 of Fig. 1. Fig. 4 is a transverse section on the line 4 4 of Fig. 1, and Fig. 5 is a transverse section through a side bar of the foot-section of the bed.

The bed is made in two telescopic sections A and B. The head-section A consists of a head-bar 10 and side bars 11, connected by a cross-bar 12, together with extension side bars 13, which are carried in direction of the foot of the bed the full normal length of the bed, as is shown in Fig. 1, and the extension side pieces 13 are connected at their rear ends by a cross-bar 14 and are supported at their rear ends by legs 15, while suitable legs 16 are also utilized to support the head portion of the head-section of the bed-frame. At the head portion of the said head-section A any desired form of headboard A' is constructed.

The bars 10 and 11 of the head-section A

may be solid or may be made of channel-iron, in which latter event they are closed and smooth at the top; but the cross-bar 12 is preferably solid, and the extension side bars 13 are L-shaped in cross-section, the horizontal members extending inwardly from the vertical members, as is also clearly shown in Fig. 1. A longitudinal slot 17 is made in the lower portion of the cross-bar 12 of the head-section A for a purpose to be hereinafter described.

The foot-section B of the bed consists of a foot-bar 18 and side bars 19 and a connecting inner end bar 20, which latter is preferably L-shaped in cross-section, as shown in Fig. 3, and is adapted to move over an intermediate bar 21, connecting the extension sides 13 of the head-section A, the said intermediate bar 21 having a longitudinal slot 22 produced therein corresponding to the slot 17 in the cross-bar 12 of the said head-section.

Preferably the foot and side bars 18 and 19 of the foot-section B are channel-irons, being closed at the top, as is best shown in Fig. 5, and in the said side bars 19 of the foot-section B a series of rollers 23 is mounted to turn, extending slightly below the bottom of the said side bars, and the side bars of the foot-section B of the bed-frame are adapted to travel upon the extension side bars 13 of the head-section of the bed-frame, the rollers 23 bearing against the horizontal members of the said side extensions 13. When the sections of the bed are closed up, the cross-bar 20 of the foot-section is brought close to the cross-bar 12 of the head-section, and the foot-bar 18 of the foot-section B is brought substantially flush with the foot cross-bar 14 of the head-section A of the bed-frame. At the foot end of the foot-section B of the bed-frame a suitable footboard B' is erected.

In order that the foot-section may be limited in its outward movement from the head-section to elongate the bed and open a central space at the center of the bed, lugs 24 are projected downward from the inner face of the inner cross-bar 20 of the foot-section B, and these lugs are usually of angular construction, as is shown in Fig. 4, so that a portion of the lugs may extend beneath the horizontal members of the side extensions 13 of the bed-frame, and when the foot-section

B of the bed has been fully opened or drawn outward the lugs 24 will engage with the intermediate cross-bar 21 of the head-section A of the bed-frame, as is shown in Fig. 3.

5 The commode attachment C is located between the fixed cross-bars 12 and 21 of the head-section A of the bed-frame, as is shown in Fig. 1, and the support for the commode consists of side bars 25, each of which side
10 bars is provided with a removable longitudinal upper section 26, adapted normally to rest in recesses 27 in the said side bars 25, and rollers 28 are adapted to travel in the slot 17 in the cross-bar 12 and the slot 22 in
15 the intermediate cross-bar 21, which rollers are connected by straps 29 or their equivalents with the side bars 25 and with front and rear bars 25^a, which connect the said side bars, forming an upper frame for the com-
20 mode-support, and by this means the commode-support is suspended from the head-section A of the bed-frame, yet is adjustable to or from either side of the same. Down-
25 wardly-extending corner rods or bars 30 are attached at their upper ends to the removable sections 26 of the side bars 25 of the commode-support, being passed downward loosely through openings in the side bars 25, as is shown in Fig. 2, and these rods or bars 30 are
30 connected at their lower ends by cross rods or bars 31, forming a lower frame for the said commode-support.

The commode 32 may be of any suitable construction, but is provided at its top at op-
35 posite sides with lugs 33. These lugs rest upon the removable sections 26 of the side bars 25 of the supporting-frame for the commode.

The commode is raised and lowered preferably through the medium of chains 34, which
40 are attached to the side bottom rods 31, and the links of the chain are adapted to be engaged by pins 35, secured upon the outer faces of the side bars 25, as is best shown in Fig. 2,
45 so that when the commode is to be elevated by drawing up upon the chains 34 the commode and the sections 26 of the side bars 25 will pass upward together, and when the top of the commode has reached the desired level
50 with reference to the top of the bedstead the commode is held in its adjusted position by causing convenient links of the chains 34 to be passed over the said pins 35, as is also shown in Fig. 2. It is not necessary that two
55 chains 34 should be employed, as a single chain will operate the commode and its adjusting-frame as conveniently as two. I desire it to be understood that other means may be employed for vertically adjusting the com-
60 mode and for holding it in its adjusted position.

In the operation of the bed when the commode is to be used the bottom section B is drawn out from the head-section A, thus dis-
65 closing the commode 32 and its supporting-frame, and the said supporting-frame is then pushed in direction of either side of the bed-

frame to bring the commode in convenient position for use by the patient. Next the commode is adjusted vertically in the manner
70 just described, so as to bring its upper surface in proper position relative to the person.

It will be understood that in connection with the bed described the spring and the mattress will be constructed in sections cor-
75 responding to the area of the head-section from its inner cross-bar 12 to its head-bar 10 and the foot-section from its inner cross-bar 20 to its foot-bar 18, and these mattress-sections and spring-sections may be constructed
80 in any manner best adapted for the purpose intended.

Having thus described my invention, I claim as new and desire to secure by Letters
85 Patent—

1. A bed constructed in telescopic sections, which sections comprise a head and a foot section, the head-section being provided with extension side members and the foot-section being provided with roller-bearings adapted to
90 engage with and slide upon the side extensions of the head-section, and a commode supported by the head-section for exposure in the space created by the outward adjustment of the foot-section, as and for the purpose speci-
95 fied.

2. A bed constructed in telescopic sections, which sections comprise a head and a foot section, the head-section being provided with extension side members and the foot-section
100 being provided with roller-bearings adapted to engage with and slide upon the side extensions of the head-section, a commode supported by the head-section for exposure in the space created by the outward adjustment of
105 the foot-section, and means substantially as described, for adjusting the said commode laterally and vertically relative to the bed-sections.

3. The combination, with a bedstead constructed in telescopic sections, one section being adapted to be moved to and from the other section, of a support laterally adjustable at the space formed by the outward move-
110 ment of one section from the other, a commode carried by the said support, and means substantially as described, for vertically adjusting the said commode.
115

4. The combination with a bedstead constructed in a head and a foot section, the foot-section being movable to and from the head-section, a support having lateral adjustment in the head-section at that portion of the head-section which is disclosed when the foot-section is withdrawn from the head-section,
120 a commode removably placed upon the said support, and a device for vertically adjusting the said commode relative to its support and to the said sections of the bed, as described.
125

5. The combination, with a bed, consisting
130 of a head-section and a foot-section, the foot-section being provided with roller-bearings adapted to rest upon the head-section, and the foot-section, being adjustable to and from

the head-section, cross-bars carried by the head-section, the said cross-bars being provided with longitudinal slots therein below the plane of the upper surface of the head and foot sections, and a frame provided with roller-bearings adapted to travel in the said slots, the said frame being provided at opposite sides with recesses and with removable members fitted in the said recesses, of an auxiliary frame attached to the removable sections of the roller-supported frame, passing loosely through the said roller-supporting frame, a commode having bearing upon the removable sections of the roller-supported frame, and means substantially as described, for raising and lowering the commode.

6. The combination with a bed, consisting of a head-section and a foot-section, the foot-section being provided with roller-bearings adapted to rest upon the head-section, and the foot-section being adjustable to and from the head-section, cross-bars carried by the head-section, the said cross-bars being provided with longitudinal slots therein below the plane of the upper surface of the head and the foot sections, and a frame provided with roller-bearings adapted to travel in the said slots, the said frame being provided at opposite sides with recesses and with removable members fitted in the said recesses, of an auxiliary frame attached to the removable sections of the roller-supported frame, passing loosely through the said roller-supported frame, a commode having bearing upon the removable sections of the roller-supported frame, means substantially as described, for raising and lowering the commode, and a stop adapted to limit the foot-section in its move-

ment from the head-section, substantially as described.

7. The combination with a bed comprising a head-section having an inner cross-bar provided with a longitudinal slot and side extensions L-shaped in cross-section, the horizontal members of which extensions face inward, and a second, intermediate cross-bar also provided with a longitudinal slot, and a foot-section provided with roller-bearings adapted to travel upon the side extensions of the head-section, of a commode attachment consisting of a main supporting-frame for the commode, having rollers attached thereto and adapted to travel in the slots of the intermediate cross-bars of the head-section, which frame is provided with removable members adapted to normally fit in recesses in opposite side bars of the said main frame, an auxiliary frame vertically adjustable in the main frame and attached to the removable sections of the said main frame, a commode supported upon the removable sections of the said main frame, and means substantially as described, for raising and lowering the auxiliary frame and the removable sections of the main frame which directly support the commode, whereby said commode may be adjusted laterally and vertically in the space formed by the withdrawal of the foot-section of the bed from the head-section thereof.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

WILLIAM C. FEELY.

Witnesses:

J. FRED ACKER,
JNO. M. RITTER.