

No. 718,971.

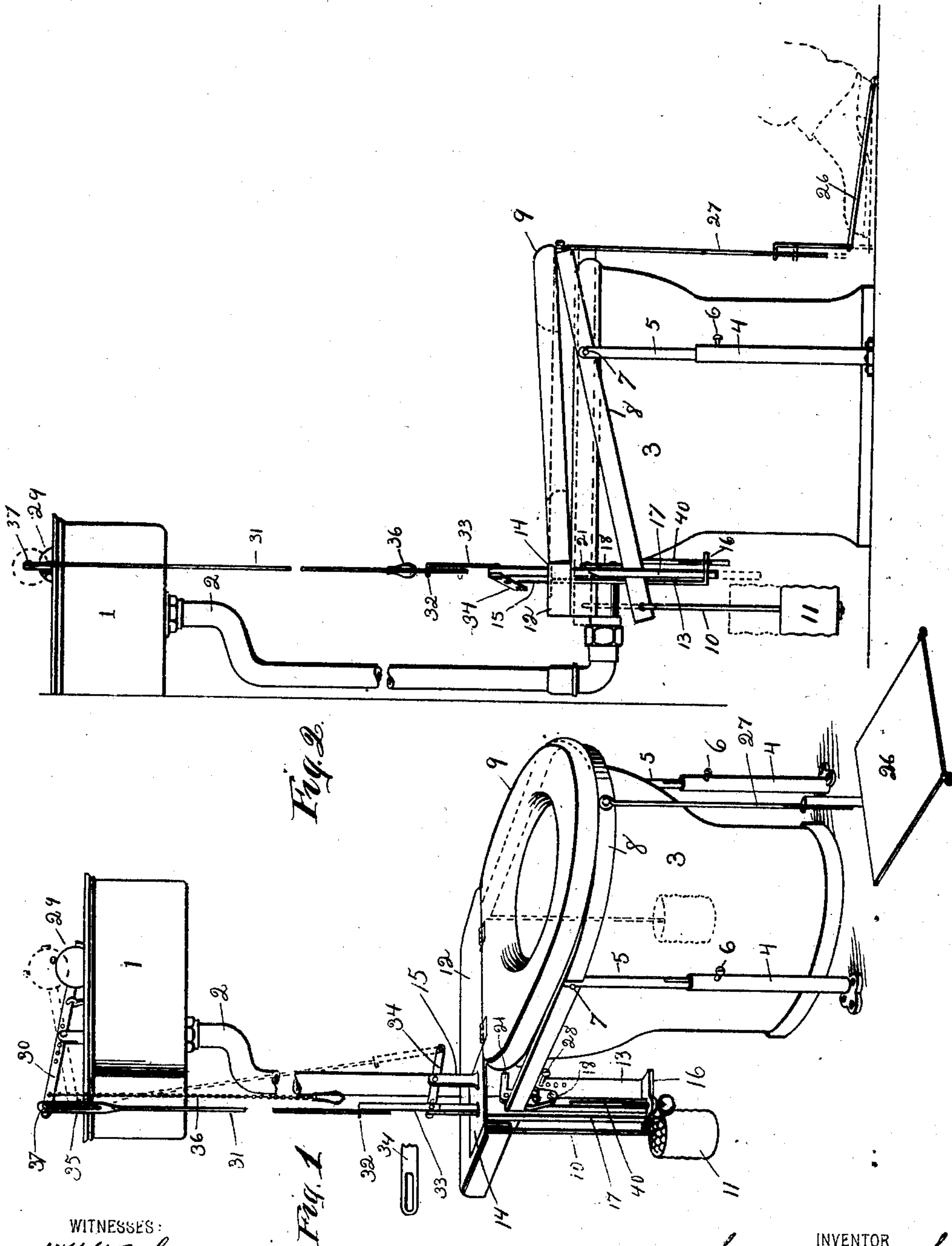
PATENTED JAN. 27, 1903.

G. W. BECKER.
WATER CLOSET.

APPLICATION FILED FEB. 1, 1902.

NO MODEL.

2 SHEETS—SHEET 1.



WITNESSES:

W. H. Strough
J. R. Bond

INVENTOR

George W. Becker
BY F. W. Bond

ATTORNEY.

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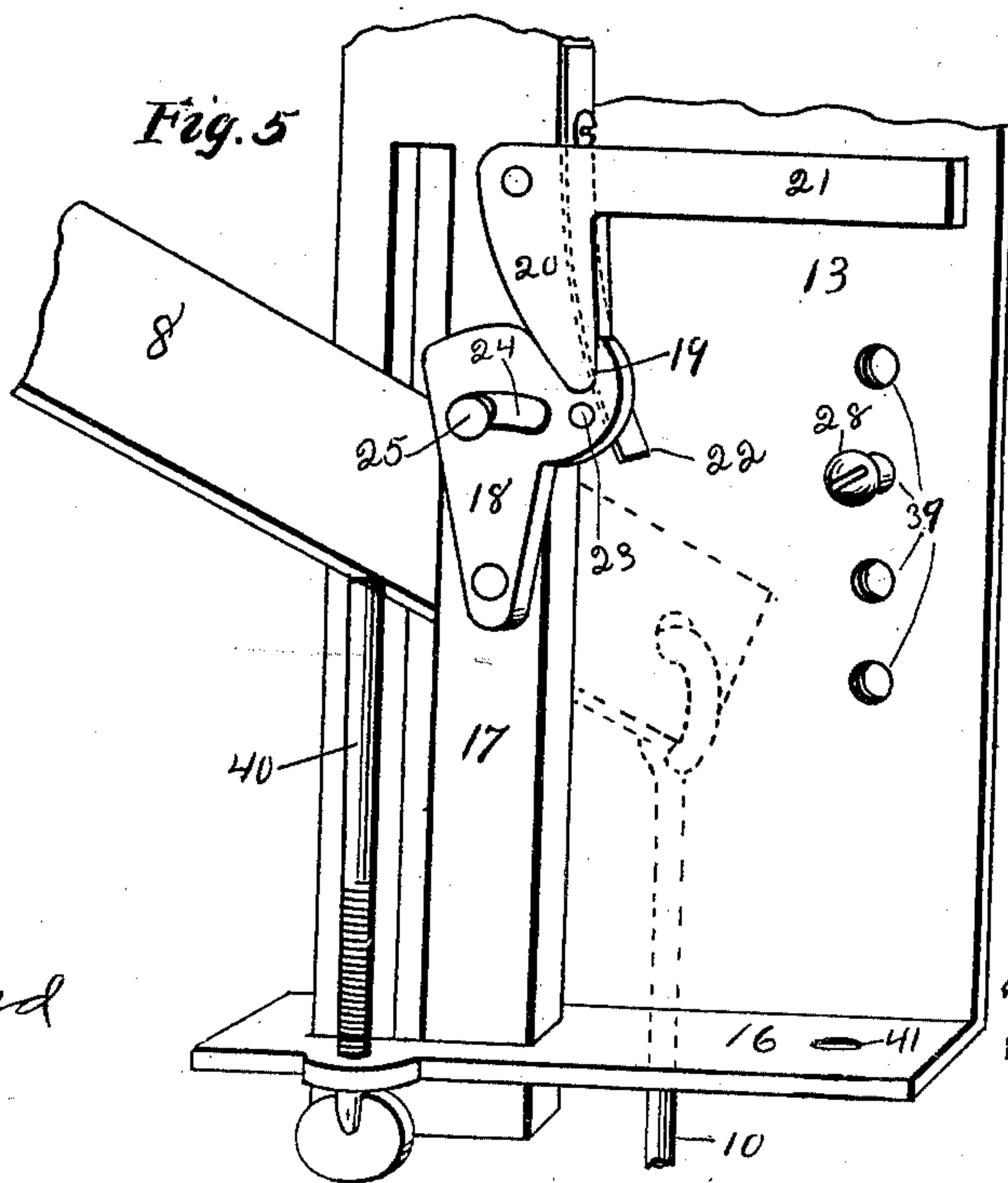
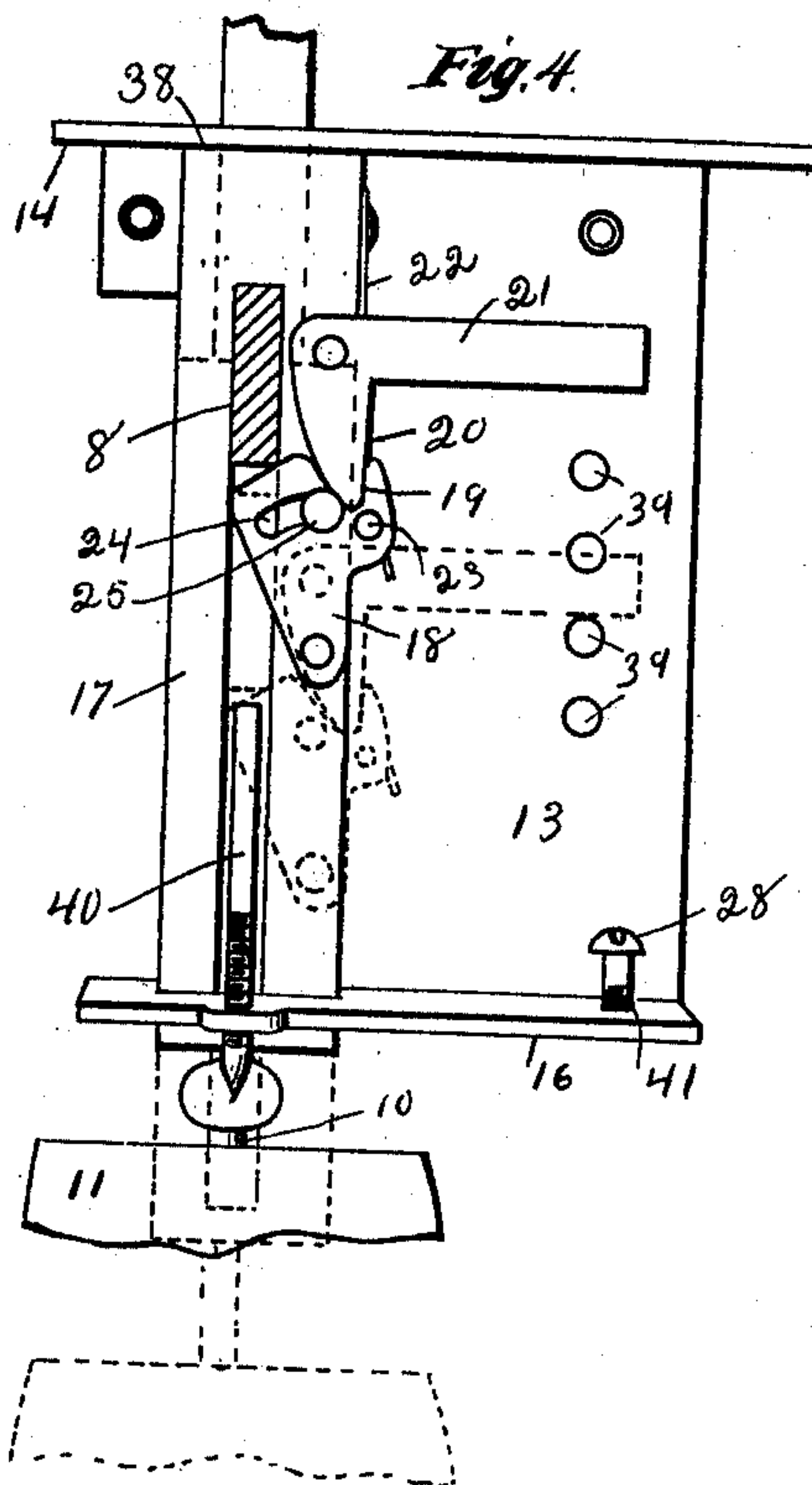
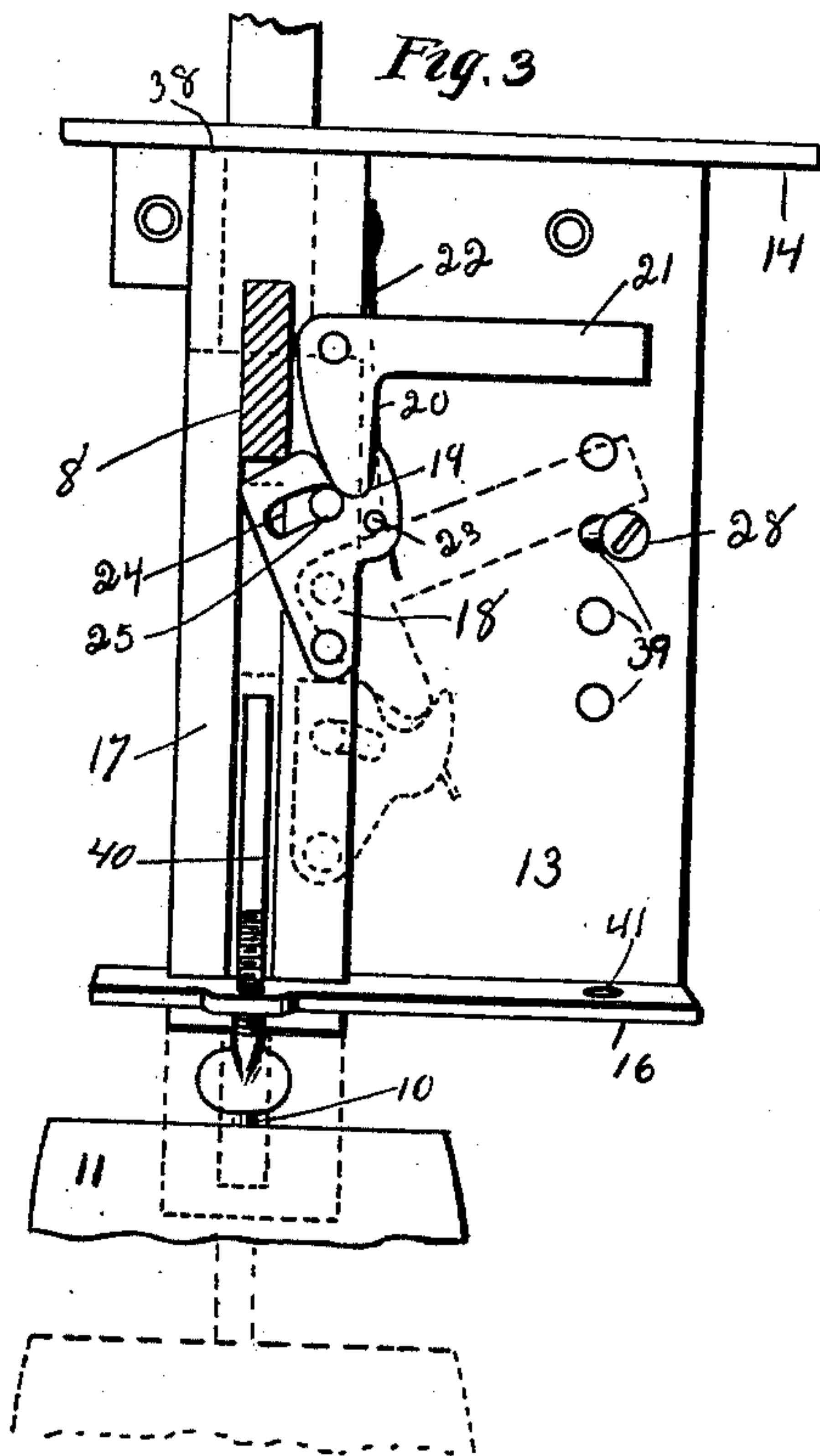
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UNITED STATES PATENT OFFICE.

GEORGE W. BECKER, OF CANTON, OHIO.

WATER-CLOSET.

SPECIFICATION forming part of Letters Patent No. 718,971, dated January 27, 1903.

Application filed February 1, 1902. Serial No. 92,127. (No model.)

To all whom it may concern:

Be it known that I, GEORGE W. BECKER, a citizen of the United States, residing at Canton, in the county of Stark and State of Ohio, have invented certain new and useful Improvements in Water-Closets; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making a part of this specification, and to the figures of reference marked thereon, in which—

Figure 1 is a perspective view showing the different parts in proper position. Fig. 2 is a side elevation showing the different parts in normal position. Fig. 3 is an enlarged view of the slide-bar, showing a transverse section of one of the arms of the yoke and illustrating the engaging dog in position and its releasing-lever in proper position to engage the under side of one member of the yoke and illustrating the engaging dog and lever in dotted lines and in position to release flush-tank-valve-operating rod. Fig. 4 is a similar view showing the releasing-dog-lever-operating pin removed. Fig. 5 is an enlarged view of one of the yoke members and the flushing-tank-operating bar and the engaging dog and the releasing-lever, showing said parts properly connected to the fixed plate.

The present invention has relation to water-closets; and it consists in the different parts and combination of parts hereinafter described, and particularly pointed out in the claims.

Similar numerals of reference indicate corresponding parts in all the figures of the drawings.

In the accompanying drawings, 1 represents the flushing-tank, which may be of any desired construction and is provided with the usual flushing-pipe 2, which is extended downward and connected to the bowl 3 in the usual manner. These parts just above mentioned form no particular part of the present invention, except that they are necessary parts and are of course used in conjunction with my improved attachments.

To the sides of the bowl 3 are located the fixed posts 4, said posts being properly secured in any convenient and well-known manner to the floor. To the posts 4 are adjustably attached the uprights 5, said uprights being

held in fixed adjustment with reference to the posts 4 by means of the set-screws 6 or their equivalents.

The object and purpose of adjustably connecting the posts 4 and the uprights 5 together is to provide a means for adjusting the space or distance between the floor and the pivotal point 7 of the yoke 8.

The yoke 8 extends forward around the front or forward side of the bowl 3 and under the seat 9, and when the yoke 8 and the seat 9 are brought into their normal position they are located substantially as shown in Fig. 2—that is to say, the front or forward portion of the yoke 8 is slightly elevated above the top of the bowl 3 and the seat 9 brought into an inclined position. To the rear ends of the yoke 8 are connected the weight-rods 10, to the bottom or lower ends of which are secured the weights 11, said weights consisting of suitable receptacles filled with any suitable heavy material, which may be added to or taken from for the purpose of properly balancing the different parts designed to be operated by means of the weights 11.

At the rear edge of the seat 9 is located a fixed plate or bar 12, to which fixed plate or bar the seat 9 is hinged in any convenient and well-known manner. To the plate or bar 12 is secured the downward-extending plate 13, which downward-extending plate is provided at its top or upper end with the flange or plate 14, which flange or plate is provided with the fixed post 15, and the bottom or lower end of the downward-extending plate 13 provided with the lateral slotted flange 16. To the flange 14 and the lateral slotted flange 16 is slidably connected the slotted bar 17, to which is pivotally attached the dog 18, which dog is provided with the recess 19, which recess is for the purpose of engaging the downward-extending arm 20 of the releasing-lever 21, said releasing-lever being pivotally attached to the slotted bar 17.

For the purpose of automatically throwing the dog 18 under one of the members of the yoke 8 the spring 22 is provided, which spring is connected to the inner edge of the sliding slotted bar 17, which spring comes in contact with the pin 23 when the dog is moved inward and from below the yoke 8. For the purpose

of limiting the movement of the dog in either direction said dog is provided with the slot 24, and through which slot is located the pin 25, which pin is secured to the face of the sliding bar 17. When it is desired to elevate the rear end of the yoke 8 independent of the seat 9, the hinged treadle 26 is provided, to which hinged treadle is adjustably attached the rod 27, said rod being attached to the forward end of the yoke 8, and as the treadle 26 is moved downward or toward the floor the forward end of the yoke 8 will be lowered and the rear end elevated, and when said rear end is brought into proper elevation the dog 18 will be automatically thrown under the yoke 8, as illustrated in Fig. 1, and when the foot or pressure is removed from the treadle 26 the weights 11 will pull the rear end of the yoke 8 downward, carrying with it the sliding bar 17 until the dog-releasing lever 21 engages the pin 28, at which time the releasing-lever 21 is moved upward as the sliding bar 17 goes down, which in turn causes the downward-extending arm 20 to carry the dog 18 into position illustrated in the dotted lines, Fig. 3, which brings said dog from under the yoke 8 and frees the sliding bar 17, at which time the sliding bar 17 is pulled upward by the weight 29, said weight being fixed to the valve-operating lever 30.

It will be understood that when the valve-operating lever 30 is pulled downward at its outer end the bowl 3 will be flushed, and as the treadle 26 pulls the forward end of the yoke 8 downward it brings the rear end into engagement with the dog 18, and when the weights 11 pull the rear end of the yoke 8 downward it pulls the outer end of the valve-operating lever 30 downward with it until the dog 18 is released, as above described, at which time the valve-operating lever 30 is brought into its normal position. The movements here described will be carried out when the seat 9 is occupied, and of course flushing takes place at the time the seat 9 or the treadle 26 is released.

It will be understood that the valve-operating lever 30 is to be operated by means of the connecting-rod 31, which is connected at its bottom or lower end to the screw-threaded flange 32, which screw-threaded flange is formed upon the connecting-link 33, said connecting-link being attached to the top or upper end of the sliding bar 17.

When it is desired to flush the bowl, when the weights 11 go upward the rod 32 is connected to the opposite end of the rock-bar 34, as illustrated in dotted lines, Fig. 1, and the downward movement of the rock-bar will pull the valve-lever 30 downward and flush the bowl when the weights 11 are brought up by the downward movement of the treadle 26 or the seat 9, and when it is desired to flush the bowl continuously and at all times when the seat or treadle is not in use the pin 28 is removed, thereby removing any independent movement of the releasing-lever 21.

It will be understood that when the pin 28 is removed flushing will cease when the weights 11 are elevated, it of course being understood that when continuous flushing is to be given the bowl except when in use the rod 31 must be connected as illustrated in Fig. 1.

The top or upper end of the rod 31 is provided with the slotted plate 35, said slotted plate being for the purpose of allowing the valve-operating lever 30 to be used independent of the rod 31 by means of the ordinary pull cord or chain 36, as it will be seen that when the valve-operating lever 30 is pulled downward at its outer end it is free to move, inasmuch as the connecting-pin 37 will move in the slot of the slotted plate 35.

For the purpose of providing a positive stop for the upward movement of the sliding bar 17 it is provided with the shoulders 38, which shoulders strike against the bottom or under side of the plate 14.

For the purpose of providing proper adjustment for the releasing-lever 21 a series of apertures, such as 39, are provided and the pin 28 placed in the aperture to give the proper movement to the releasing-lever 21.

For the purpose of limiting the downward movement of the rear end of the pivoted yoke the stop-bar 40 is provided, which stop-bar is adjustably attached, by means of screw-threads or their equivalents, to the bottom or lower end of the plate or to the right-angled portion thereof.

For the purpose of providing a means for holding the pin 28 when it is removed from any one of the apertures 39 for the purpose of causing continuous flushing except when the device is in use an aperture 41 is formed in the right-angled portion 16.

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

1. The combination of a bowl, a pivoted yoke supported upon adjustable standards, and provided with weights at its rear end, and a hinged seat held in elevation by the yoke, a plate having secured thereto the downward-extending plate or arm provided with a flange, the bottom end thereof provided with a slotted flange, the slotted bar carrying a pivoted dog, a pin, and lever adapted to actuate the dog and release the slotted bar, a fixed post located upon the plate having the downward-extending arm, a lever pivoted to the fixed post and having connected thereto the reciprocating slotted bar and the valve-operating bar or link, substantially as and for the purpose specified.

2. The combination of a bowl, a yoke, pivoted upon supports, and weighted at its rear end a slotted bar carrying a yoke-engaging dog, means to release the slotted rod and dog, a valve-operating rod, actuated by the movement of the slotted rod, and an adjustable stop-bar to limit the downward movement of the yoke, substantially as set forth.

3. The combination of a bowl, a weighted yoke pivoted to adjustable supports, a seat held in elevation by the weighted yoke, a slotted bar having connected thereto a piv-
5 oted dog located adjacent to the slot in the bar and provided with a pin adapted to engage a spring and the spring secured to and movable with the sliding bar, a releasing-lever adapted to actuate the dog, and a stop-
10 pin to engage the releasing-lever, and a valve-

operating rod, actuated by the slotted bar, substantially as and for the purpose specified.

In testimony that I claim the above I have hereunto subscribed my name in the pres- 15
ence of two witnesses.

GEORGE W. BECKER.

Witnesses:

J. A. JEFFERS,
F. W. BOND.