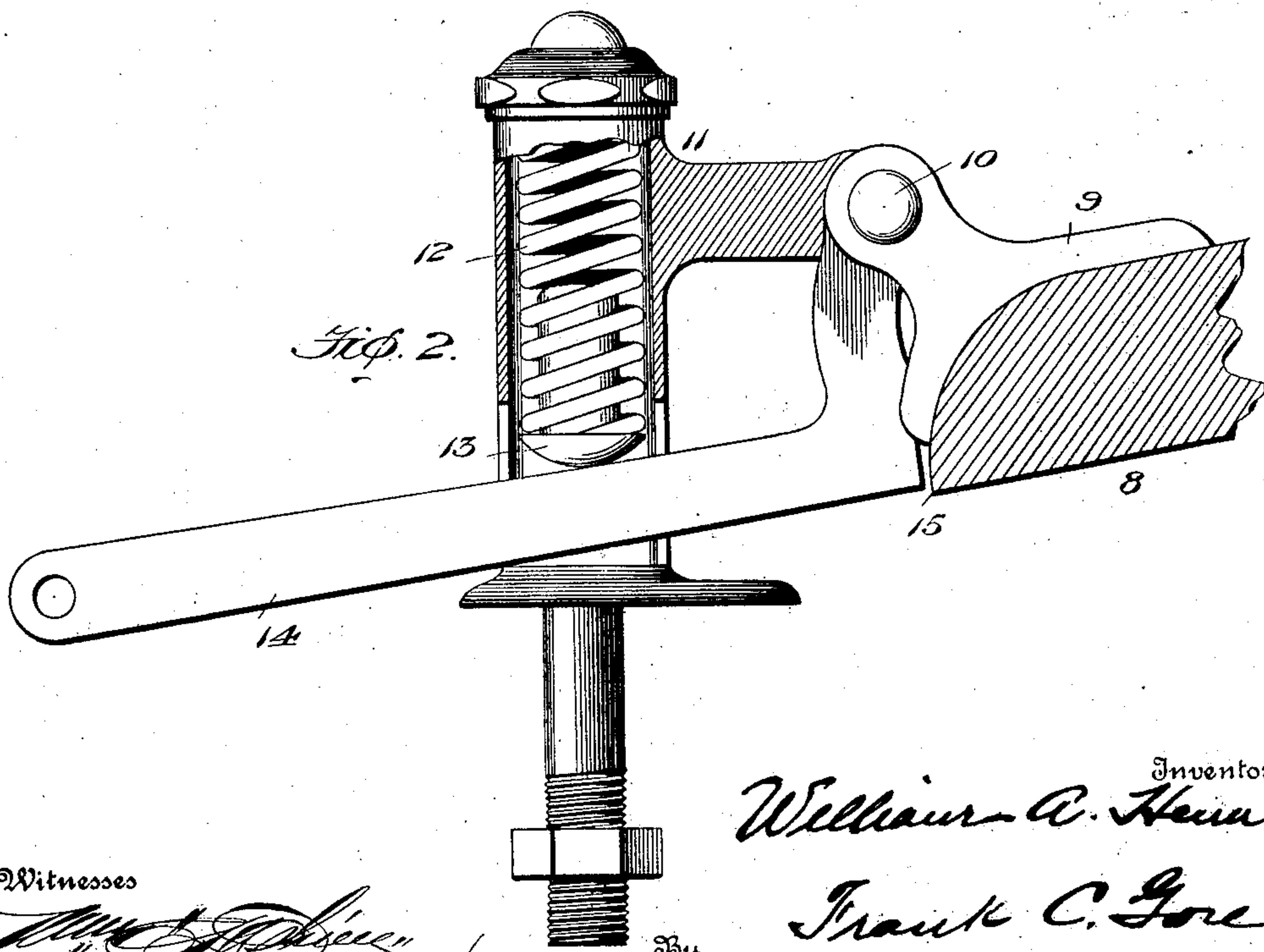
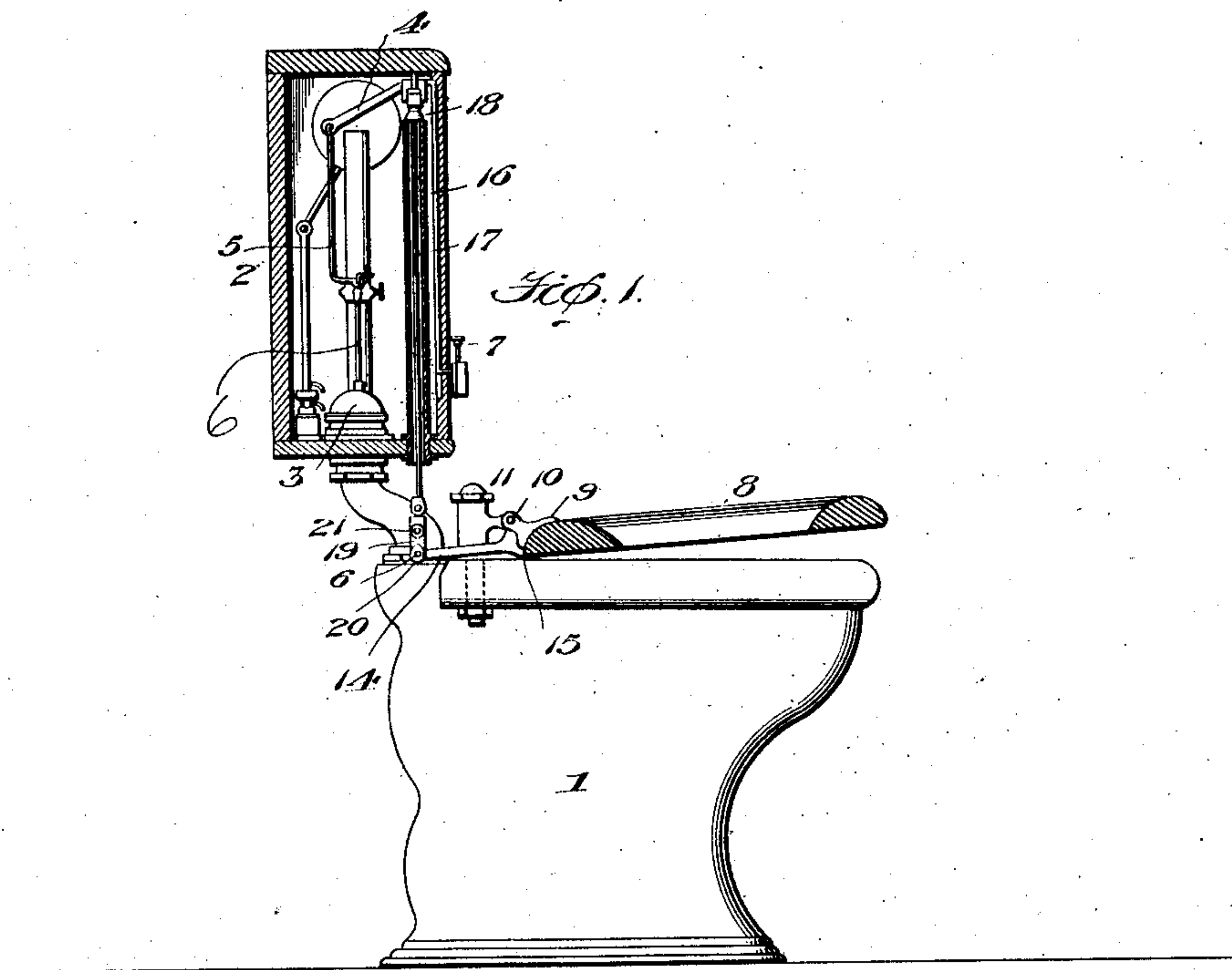


W. A. HENN.
SEAT OPERATED AUTOMATIC FLUSHING VALVE FOR WATER CLOSETS.
APPLICATION FILED APR. 24, 1909.

997,448.

Patented July 11, 1911.

2 SHEETS-SHEET 1.



Witnesses

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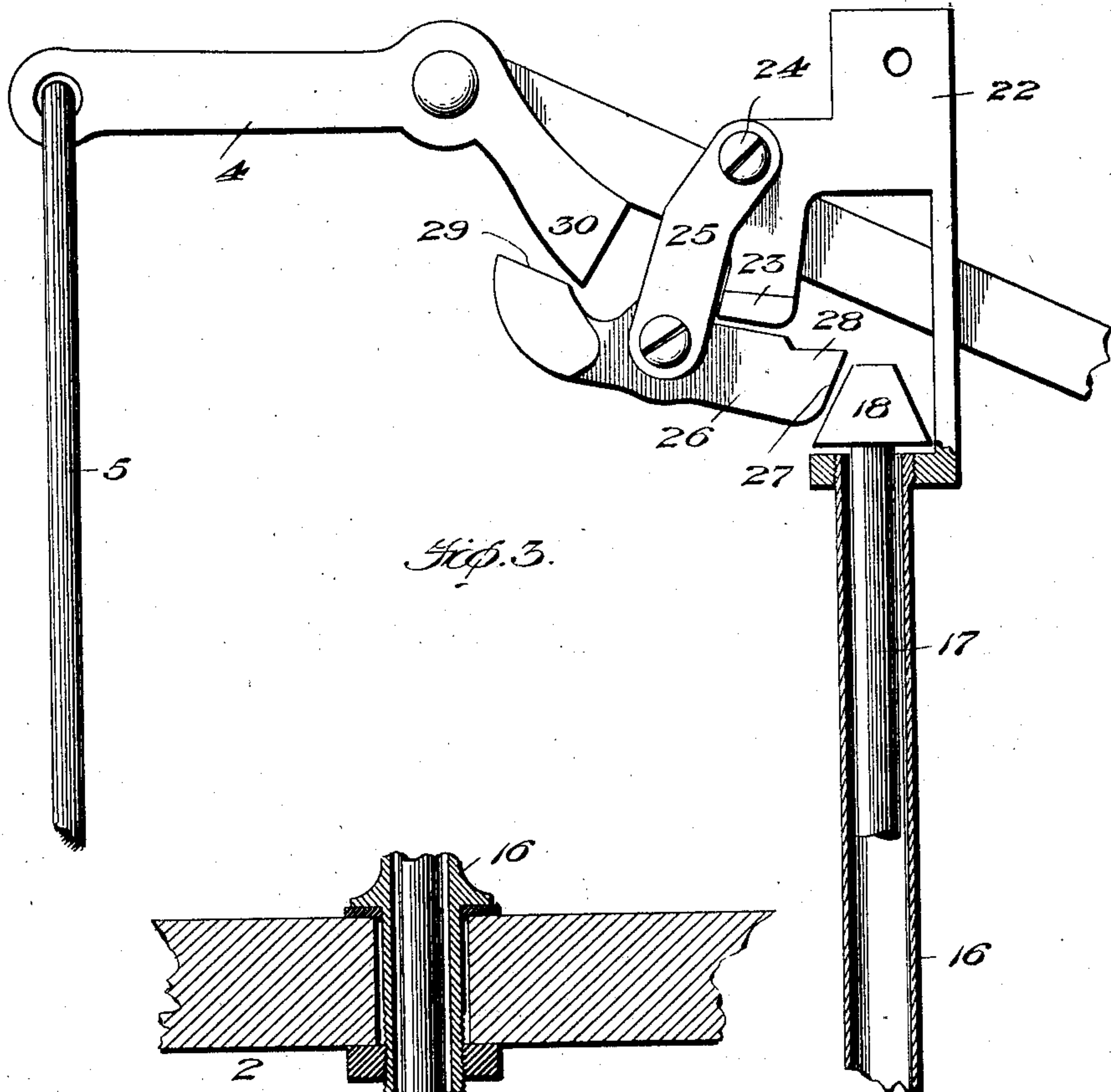


Fig. 3.

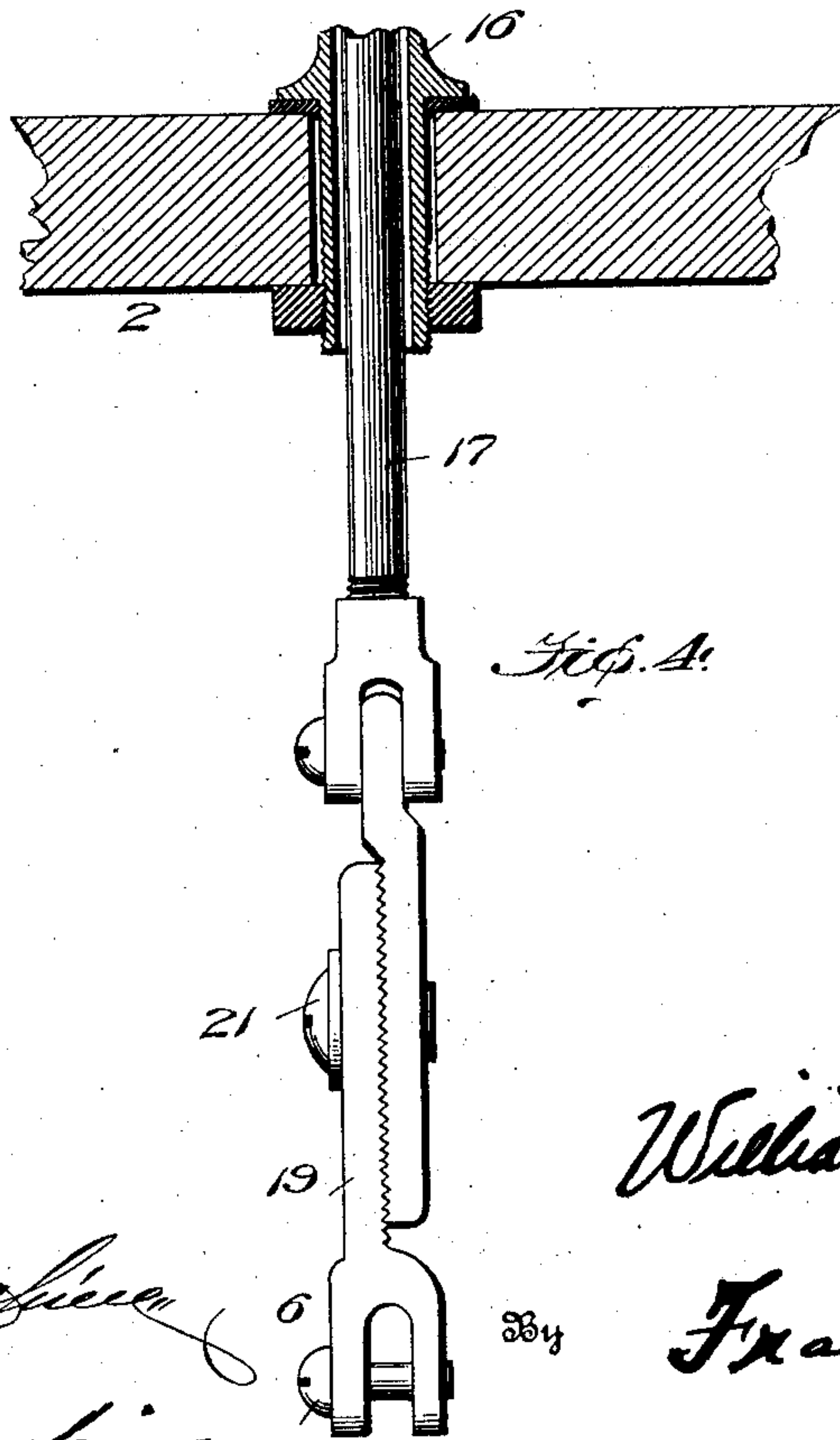


Fig. 4.

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WILLIAM A. HENN, OF EVANSVILLE, INDIANA.

SEAT-OPERATED AUTOMATIC FLUSHING-VALVE FOR WATER-CLOSETS.

997,448.

Specification of Letters Patent.

Patented July 11, 1911.

Application filed April 24, 1909. Serial No. 492,005.

To all whom it may concern:

Be it known that I, WILLIAM A. HENN, a citizen of the United States, residing at Evansville, county of Vanderburg, and State of Indiana, have invented certain new and useful Improvements in Seat-Operated Automatic Flushing-Valves for Water-Closets, of which the following is a specification.

This invention relates to seat-operated automatic flushing valves for water-closets.

The present invention has for its object the provision of a novel trip action mechanism for use in connection with the ordinary flushing valve adapted for operation by the seat, whereby the flushing valve will be automatically opened when the seat lifts but without interference with the operation of the usual push-button valve mechanism.

The invention consists of certain novel features and combinations of parts set forth fully hereinafter and recited in the appended claim.

In the accompanying drawings:—Figure 1 is a side elevation, partly in section, showing the invention in use; Fig. 2, an enlarged detail of the part which is operated by the seat; Fig. 3, an enlarged detail of the trip mechanism; and Fig. 4, an enlarged detail of a certain connection.

An ordinary closet bowl is shown at 1, an ordinary flush tank at 2, which contains flushing valve 3, controlling the flow from the tank to the bowl, and other usual fixtures, including a lever 4 pivoted at 4^a, whose rod 5 is adapted for coöperation with the stem 6 of the valve 3 in any well known manner to cause opening of said valve when the right-hand end of the lever is depressed. The lever 4 is operatively connected with the ordinary push-button 7 so that the right-hand end of the lever may be readily depressed to open the valve 3.

The seat, which is shown at 8, has a fixture 9 pivoted at 10 to an arm on a fixture 11 which is secured to the rear part of bowl 1 and contains a coil spring 12 carrying a button 13 adapted to bear against a lever 14, which is also pivoted at 10, independently of the fixture 2 and is adapted to abut the seat 8 at 15. This construction insures the seat normally remaining in slightly raised position, but permits said seat to be swung upwardly without affecting the lever 14.

Rising within the flush tank 2 and con-

nected thereto in any suitable manner, is a pipe 16, which is of sufficient height to prevent the water from overflowing thereinto, said pipe serving as a guide for the actuating rod 17, which carries at its upper end a head 18, having inclined sides and preferably of frusto-conical shape. The lower end of the rod 17 is connected to a link 19, which is pivoted at 20 to the lever 14, said link being composed of two relatively adjustable serrated parts connected by a bolt 21, whereby any necessary adjustments of the link may be made to suit the positions of the parts.

Secured to the upper end of the pipe 16 is a bracket 22 which is provided with a lug 23. Pivoted to the bracket at 24 is a hanger 25, to the lower end of which is pivoted a trip 26, one of whose ends is rounded or inclined at 27 so that the head 18 may readily pass it when rising, and which is provided on its upper edge with a flattened place 28 with which the lower face of the head 18 may engage. The other end of the trip 26 has a face 29 adapted to engage with a member 30 carried by the lever 4. The lug 23 is disposed above the trip 26 and is adapted to act as an abutment for the hanger 25 to maintain the parts in normal position.

When the seat 8 is depressed against the action of spring 12, the rod 17 is raised, whereupon the head 18 brushes past the inclined face 27 and passes above the flat part 28. When the seat rises under the action of the spring 12, the rod 17 is pulled downwardly and the engagement of the lower face of head 18 with the surface 28, causes the trip 26 to swing on its pivot and to engage the part 30, thereby moving the arm 4 and opening the flushing valve 3, after which the head 18 trips past the trip 26 and resumes its normal position and the parts thereafter automatically reseat themselves.

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

In a seat operated flushing valve, the combination with a movable seat, and a flushing valve, of a pivoted member for operating the flushing valve, an actuating member operated by the seat, a bracket having a lug or abutment, a hanger pivoted to the bracket and adapted to normally rest against the lug or abutment, and a trip pivoted to said hanger and normally held in such position

that it is adapted to be swung aside, with the hanger, on the depression of the seat and to be engaged by the actuating member on the rising of the seat and thereby thrown into
5 engagement with the valve operating member to cause the latter to open the flushing valve.

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

WILLIAM A. HENN.

Witnesses:

F. C. GORE,

T. C. HELFRICH.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."
