(No Model.)

J. KELLY.

WATER CLOSET.

No. 343,586. Patented June 15, 1886.

Fig. 1.

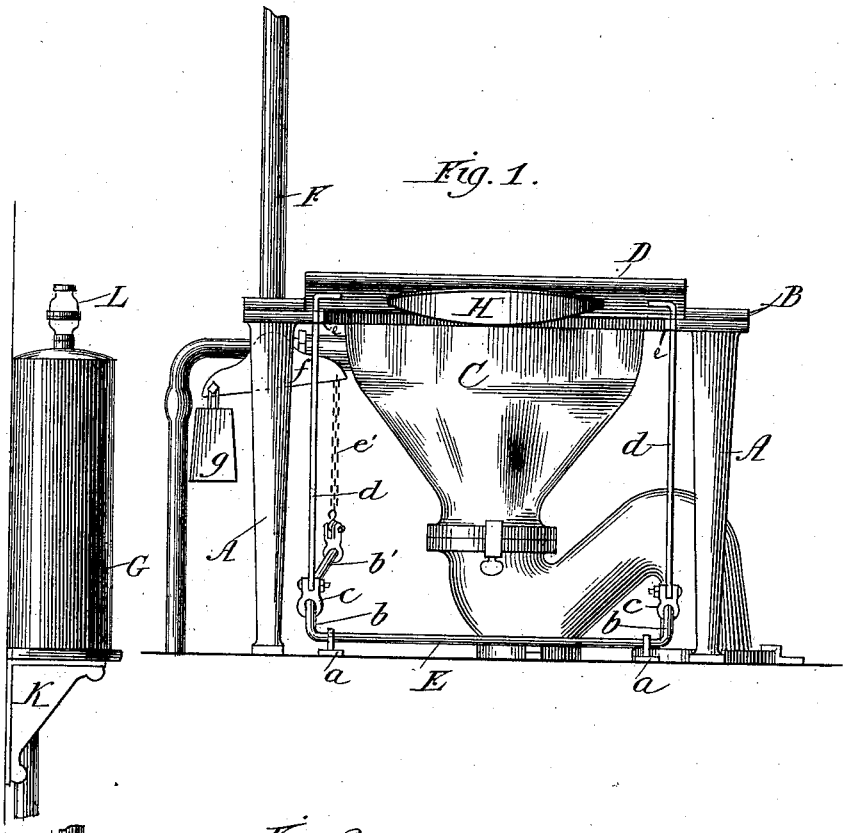


Fig. 2.

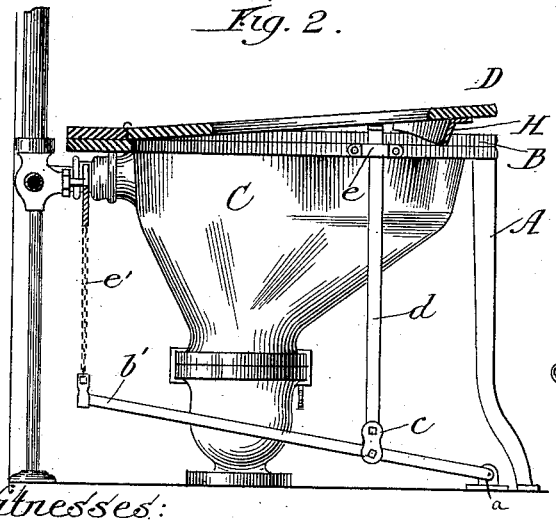
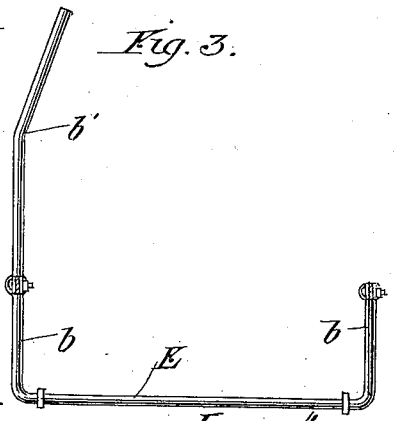


Fig. 3.



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UNITED STATES PATENT OFFICE.

JOHN KELLY, OF CHICAGO, ILLINOIS.

WATER-CLOSET.

SPECIFICATION forming part of Letters Patent No. 343,586, dated June 15, 1886.

Application filed March 5, 1885. Serial No. 157,726. (No model.)

To all whom it may concern:

Be it known that I, JOHN KELLY, a citizen of the United States of America, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Water-Closets, of which the following is a specification, reference being had therein to the accompanying drawings.

My invention relates to certain improvements in water-closets.

The object of my invention is to improve the gearing employed to operate the valve controlling the water-supply.

To the accomplishment of the above the invention consists of the novel devices combined as will be described.

Reference will be made to the accompanying drawings, in which Figure 1 is a front view of the seat; Fig. 2, a side view thereof and the water-tank, and Fig. 3 a detail of the valve-operating gearing.

Like letters refer to like parts in each view.

A represents the uprights for supporting frame B, C the bowl, and D the hinged seat. Situated upon the floor are brackets *a*, in which a cross-bar, E, is pivoted. Bar E is formed at each end with an arm, *b*, extending rearwardly, one of such arms being provided with an extension, *b'*, bent as shown in Fig. 3. Connected to each arm *b* by piece *c* is an upright rod, *d*, adapted to move in loops *e*, secured to frame B, these rods being preferably bent at their upper ends. To the rear end of extension *b'* there is secured a chain or rod, *e'*, secured at its upper end to one arm of a lever, *f*. From the opposite end of lever *f* there is suspended a weight, *g*, the parts being so arranged that when seat D is not occupied, or is free from any weight, the weight *g* will serve to operate a valve to cut off the water-supply from tank G. The parts are also so arranged that when no weight is applied to the seat it will be forced by rods *d* to the position shown in the drawings, these rods always contacting with the seat.

The operation of this part of the invention is as follows: When the seat is occupied, it is depressed, and through the medium of the gearing described the stop-cock is operated to admit water to tank G through pipe F, but not to the bowl. As soon as the occupant arises the position of the cocks is changed and water admitted to the bowl. To the under face of the seat D there is secured a guard, H, to prevent the escape of urine between the top of the bowl and the seat. The tank G is situated upon a bracket, K, and the opening for pipe F is made near the rear of its bottom to bring the pipe F against the wall. The tank is provided upon its upper face with a vent, L; or where the pressure is sufficient the opening for this vent may be closed by a plug.

What I claim is--

In a water-closet, the combination, with a hinged seat, D, of a rod, E, pivoted in brackets secured to the floor and bent at each end to form an arm, *b*, vertical arms *d*, secured at their lower ends to arms *b*, and at their upper ends moving in loops *e*, rearwardly-extending and bent arm *b'*, which forms a continuation of one arm *b*, chain *e'*, secured at its lower end to arm *b'*, lever *f*, secured to chain *e'*, and weight *g*, suspended from the remaining arm of such lever, the parts arranged and operating as and for the purpose set forth.

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

JOHN KELLY.

Witnesses:
M. J. CLAGETT,
LOUIS NOLTING.