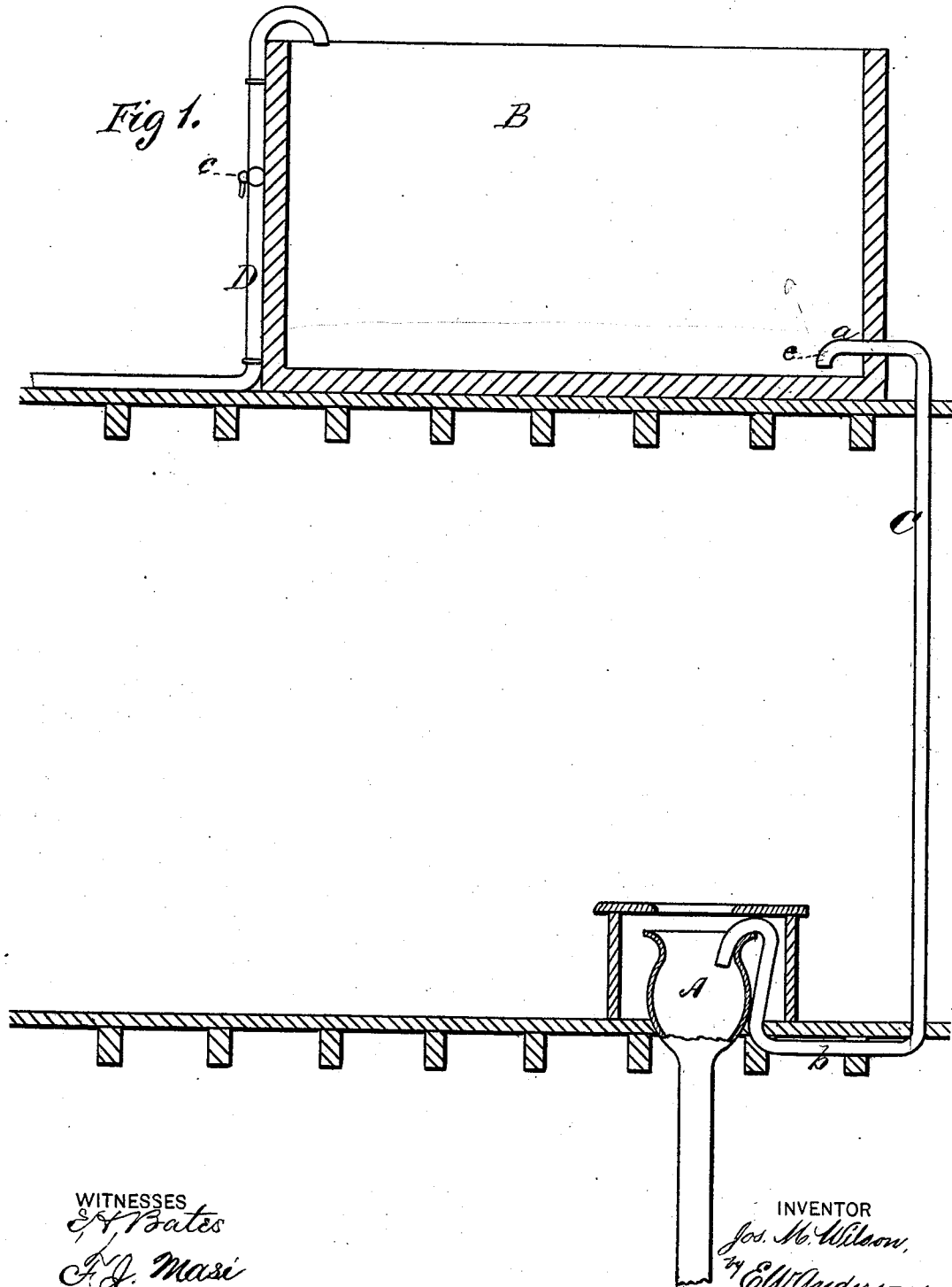


J. M. WILSON.
Water-Closet.

No. 202,619.

Patented April 16, 1878.



WITNESSES
E. H. Bates
J. J. Masi

INVENTOR
Jos. M. Wilson,
E. W. Anderson,
ATTORNEY

UNITED STATES PATENT OFFICE.

JOSEPH M. WILSON, OF PHILADELPHIA, PENNSYLVANIA.

IMPROVEMENT IN WATER-CLOSETS.

Specification forming part of Letters Patent No. **202,619**, dated April 16, 1878; application filed March 19, 1878.

To all whom it may concern:

Be it known that I, JOSEPH M. WILSON, of Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented a new and valuable Improvement in Water-Closets; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters of reference marked thereon.

Said drawing is a representation of a side view of my improved water-closet, with the tank and basin cabinet in section.

This invention has relation to improvements in water-closets for residences, hospitals, and the like.

The object of the invention is to produce a periodical flushing of the basin automatically, so as to carry off into a sewer the contents of the said basin.

The nature of the invention consists in combining with a basin and an elevated tank, filled by a continuous stream, a siphon-tube connecting the tank and basin, whereby the tank is periodically emptied and the basin flushed, the periods at which the said flushing occurs being dependent upon the rapidity of the continuous stream that runs into the tank, and the flow being regulated by a cock in the supply-pipe, as will be hereinafter more fully set forth.

In the annexed drawing, the letter A indicates a water-closet basin of the description generally used in hospital-buildings; B, a tank located above it, and C a tube entering the tank at its side, near its bottom, and then bent down as shown at *a*, after the manner of a siphon. It extends down from the tank below the basin, and being bent into U form, as shown at *b*, is carried over the edge of the basin, and extends a short distance down its inside. Water is fed to the tank in a continuous stream by means of a supply-pipe, D, the flow thereof being regulated by means of a stop-cock, *e*, or other equivalent device.

In practice, the pipe C may be made in several sections, jointed together in any suitable manner, and it may be concealed from view inside the partitions and floors when expedient. Under some circumstances the pipe C may enter the basin directly, without dipping and rising up again, and the feed-pipe D should

not supply water to the tank faster than the pipe C can carry it off, as this would cause an overflow. To properly regulate this supply I use an ordinary cock, as aforesaid.

The operation of the water-closet is as follows: Water being let into the tank rises therein until its surface is on a level with the top of the siphon-bend *a*. It then runs down the pipe C, expelling air therefrom, and overflows into the basin until it is on a level, in the tank, with the lower end of the siphon-bend aforesaid. The flow of water through pipe C then ceases until the water again rises above the siphon-bend, when it is renewed. By this means the basin is flushed periodically, the intervals between the flushings being longer or shorter, according to the quantity of water supplied by pipe D.

The quantity of water passed into basin may be increased or lessened by lengthening or shortening the short arm *e* of the siphon-pipe C.

After each flushing the U-bend *b* of pipe retains sufficient water to form a seal, which prevents odors from passing through the siphon C into the tank in the intervals between the flushings.

What I claim as new, and desire to secure by Letters Patent, is—

1. The combination, with a water-closet basin and an elevated tank having a continuous water-supply, of a tube entering the tank with a siphon-bend, and entering the basin, whereby the said basin is periodically flushed, substantially as specified.

2. The combination, with a basin and an elevated tank having a continuous water-supply, of a tube entering the tank with a siphon-bend, dipping in a U-bend below the basin and then entering the same, substantially as specified.

3. The combination, with a basin, an elevated tank, and a siphon-tube connecting the said basin and tank, of a supply-pipe feeding the tank and provided with a regulating-cock, substantially as specified.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

JOSEPH M. WILSON.

Witnesses:

ALLEN H. GANGEWER,
D. G. WALKER.