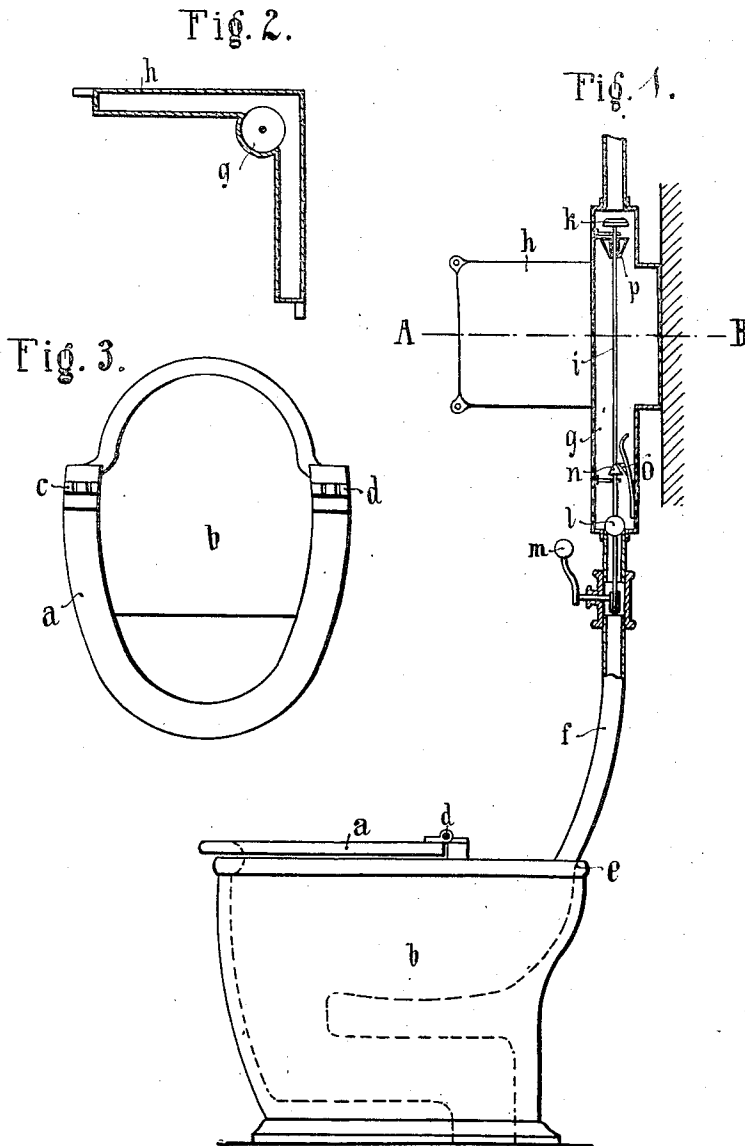


F. RUPPEL.
FLUSHING WATER CLOSETS.
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1,035,241.

Patented Aug. 13, 1912.



WITNESSES:

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UNITED STATES PATENT OFFICE.

FRIEDRICH RUPPEL, OF BADEN, GERMANY.

FLUSHING WATER-CLOSETS.

1,035,241.

Specification of Letters Patent.

Patented Aug. 13, 1912.

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To all whom it may concern:

Be it known that I, FRIEDRICH RUPPEL, a subject of the King of Prussia, residing at Baden, Germany, have invented certain new and useful Improvements in Flushing Water-Closets, of which the following is a specification.

My invention relates to apparatus for cleansing water closets by water jets in such a manner that on the one hand the fouling of the closet seat is impossible, and on the other the water jet acts so forcibly, that all the soil in or upon the bowl is washed away. This is effected by arrangement that the rear part of the closet is left free from wood casing, and the seat-hinge is transferred to the side, and the water supply acts from the upper rim, so that a distribution of the water over all the interior is effected. In order to make the intensity of the water current as great as possible, the water supply pipe is made of small diameter, but its upper cavity is connected directly to the enlarged cistern, which at the same time forms its support. Hereby an uninterrupted flow through of the water is attained with the greatest possible force. Moreover the erection of the apparatus in cramped spaces is facilitated and great water pressure attained without frictional losses. Finally the outward appearance is suitable and it can be adapted to various conditions of space without awkwardness.

In the drawing: Figure 1 shows an elevation of the apparatus with the supply pipe partially in section. Fig. 2 shows a cross section on the line A—B of Fig. 1. Fig. 3 a plan view of the apparatus.

The flap *a* of the closet *b* does not extend over the rearwardly somewhat projecting part *c* and bears the hinges *c* and *d* at the sides. The water inlet is placed at the uppermost part, from whence the water distributes itself uniformly so that all the soil is washed away. The water flows through the pipe *f* to which the supply pipe *g* is connected the interior of which communicates directly with the water cistern *h*, which also acts as support. This cistern has two parts at a right angle to each other with the tube *g* in the angle (Fig. 2) in order that it may be located in a corner, where the closet is usually placed, as inconspicu-

ously as possible. To the rod *i* placed in the tube *g* are attached the inlet valve *k* and the outlet valve *l*. With the aid of a turning lever *m* the rod *i* is raised so that the projection *n* engages over the catch of the spring *o* and the rod consequently remains in such a position that the inlet valve remains closed and the outlet valve open, until the water has run out of the cistern. The float *f* descending with the water level, then presses back the spring *o*, and the rod descends, so that the outlet is closed and the inlet is opened, whereupon the cistern refills. As the in-and-out-flow takes place without encountering obstacles and without any special bends or the like, it is completely noiseless and with the greatest possible force.

Having now particularly described and ascertained the nature of my said invention and in what manner the same is to be performed, I declare that what I claim is:—

1. In a flushing apparatus, in combination, a tank having an inlet and an outlet, a rod, inlet and outlet valves fixed thereon, said valves being normally positioned to close said outlet and open said inlet, means for moving said rod to close said inlet and open said outlet, means for holding said rod in its moved position, and a float guided in its movements by said rod for rendering said holding means inoperative as the tank empties, whereby said rod will be returned to its normal position.

2. In a flushing apparatus, in combination, a tank having an inlet and an outlet, a rod, inlet and outlet valves fixed thereon, said valves being normally positioned to close said outlet and open said inlet, a projection on said rod, means for moving said rod to close said inlet and open said outlet, spring-controlled means adapted to engage said projection for holding said rod in its moved position, and a float guided in its movements by said rod for rendering said holding means inoperative as the tank empties, whereby said rod will be returned to its normal position.

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

FRIEDRICH RUPPEL.

Witnesses:

AUGUST OOSTERMAN,
SIGFRIED HAUSER.