

(No Model.)

C. A. BLESSING.
FLUSH TANK.

No. 578,506.

Patented Mar. 9, 1897.

Fig. 1.

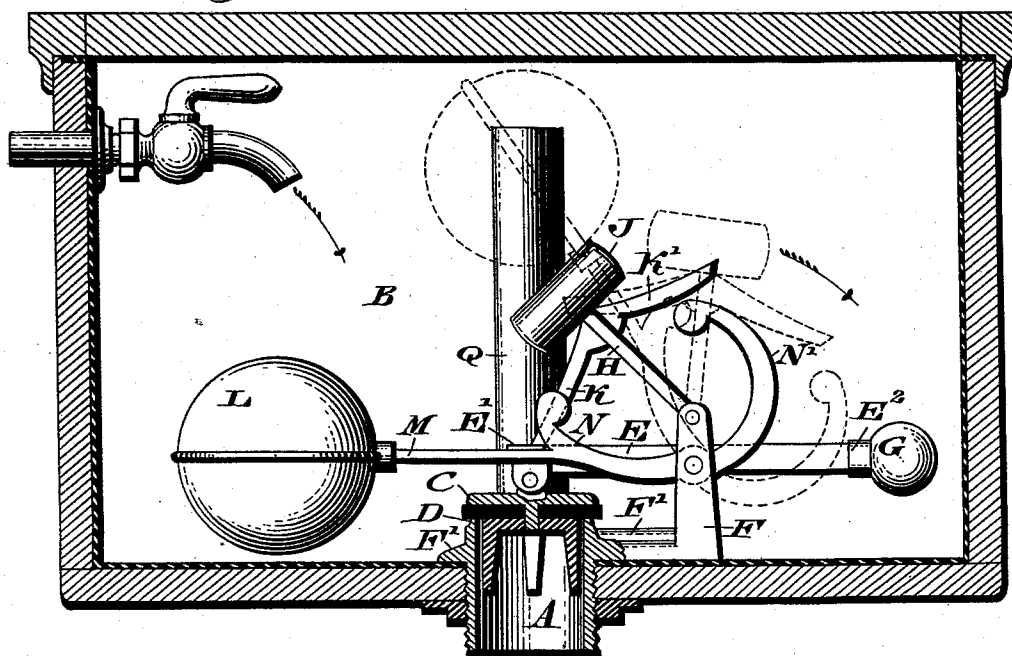
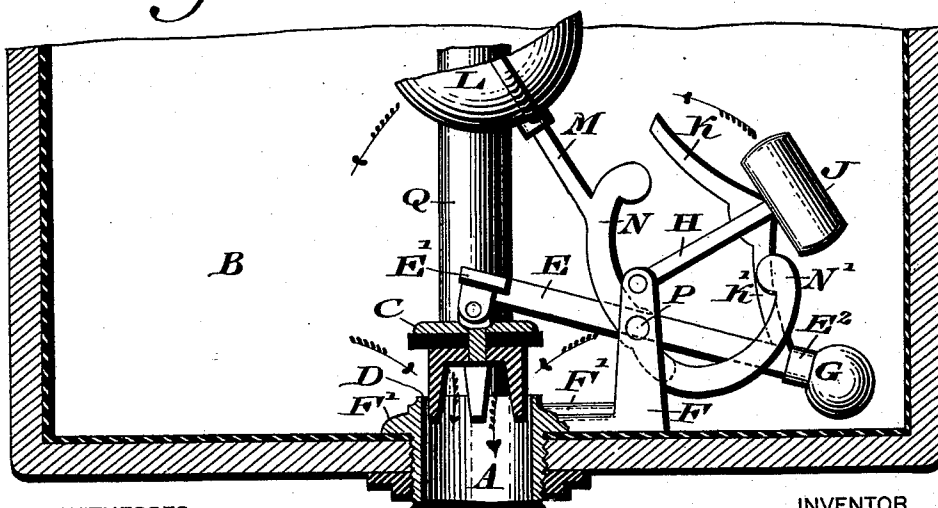


Fig. 2.



WITNESSES:

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CHARLES A. BLESSING, OF PHILADELPHIA, PENNSYLVANIA.

FLUSH-TANK.

SPECIFICATION forming part of Letters Patent No. 578,506, dated March 9, 1897.

Application filed March 15, 1895. Serial No. 541,947. (No model.)

To all whom it may concern:

Be it known that I, CHARLES A. BLESSING, a citizen of the United States, residing in the city and county of Philadelphia, State of Pennsylvania, have invented a new and useful Improvement in Flush-Tanks, which improvement is fully set forth in the following specification and accompanying drawings.

My invention consists of a flush-tank adapted to flush a urinal, water-closet bowl, &c., automatically at intervals, the construction and operation being hereinafter set forth.

Figure 1 represents a partial vertical section and side elevation of a flush-tank embodying my invention, the valve being closed. Fig. 2 represents a similar view of the same, the valve being open.

Similar letters of reference indicate corresponding parts in both figures.

Referring to the drawings, A designates the valve-outlet of a flushing-tank B, and C designates a valve whose seat D is at top of said outlet within said tank.

E designates a swinging or rocking beam which is mounted on the bracket F, rising from the collar F' on the bottom of said tank, one end E' of said beam being pivotally connected with said valve C and the other end E² being weighted or having the counterbalance G thereon.

H designates a swinging arm having its lower end mounted on the bracket F and provided at top with the weight J. Projecting from said arm are branches or wings K K', which are adapted to engage with the opposite ends of the beam E.

L designates a float or ball which is connected with the lever M, the latter being mounted on the bracket F and having fingers N N' projecting upwardly from opposite sides of the axis P of said lever, so as to strike the swinging arm H.

The operation is as follows: The valve being primarily closed and the water entering the tank and gradually raising the float, when the finger N reaches the arm H it strikes the latter and raises the same. As soon as the arm passes the center it drops or overturns, in the present case to the right, whereby the branch K' falls on the end E² of

the beam E, thus quickly opening the valve C and allowing the water to flush a urinal, bowl, &c. As the float lowers, the finger N' rises and strikes the arm H, thus gradually raising said arm until it passes the center, when it drops or overturns to the left, and the branch K falls on the end E' of the beam E, thus quickly closing the valve, the tank now being empty. The inflowing water again gradually elevates the float, the subsequent operations being similar to those hereinbefore stated, it being evident that the valve is alternately opened and closed by the operations of the weighted arm H, due to the rise and fall of the float, and thus the flushing may be automatically accomplished at intervals in an effective and reliable manner.

The supply-cock employed may be regulated to cause the flushing to be accomplished at less or greater intervals, as may be required for the article to be flushed.

The tank is provided with an overflow Q, which communicates with the discharge-pipe, for evident purposes.

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

1. A flushing-tank, having a discharge-pipe with a rising-and-falling valve therein, a weighted rocking beam having a suitable bracket on the floor of said tank, a weighted arm or hammer pivoted to said standard and provided with wings adapted to engage opposite ends of said beam and a float with a pivoted lever having fingers on opposite sides of its axis adapted to engage said weighted arm.

2. The valve-outlet A having a collar with the bracket F thereon, the rising-and-falling valve C in said outlet the rocking beam E pivoted at one end, the weighted arm H with wings K, K' adapted to engage portions of said beam opposite the pivot, and a float having a lever pivoted to said bracket and having fingers adapted to engage opposite sides of said weighted arm.

CHARLES A. BLESSING.

Witnesses:

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