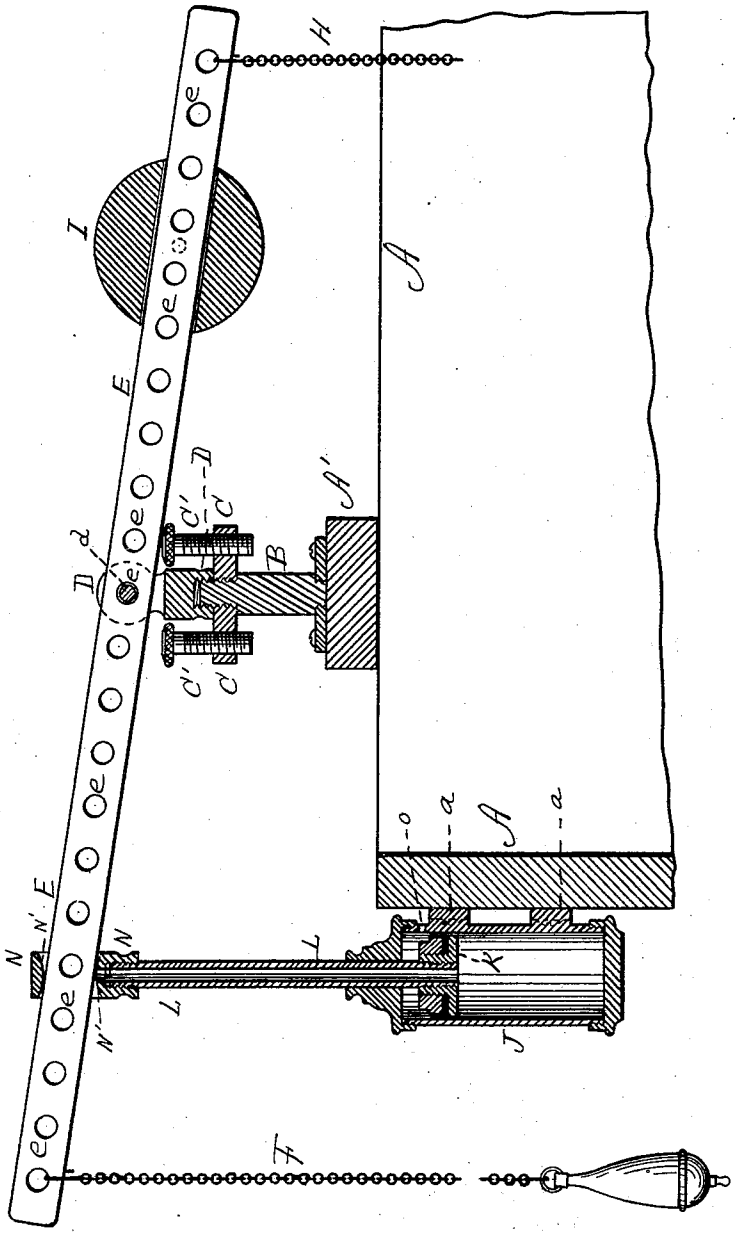
(No Model.)

G. V. ELDRIDGE.

WATER CLOSET ATTACHMENT.

No. 407,397. Patented July 23, 1889.



WITNESSES.

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UNITED STATES PATENT OFFICE.

GEORGE VAUGHN ELDRIDGE, OF SOMERVILLE, MASSACHUSETTS.

WATER-CLOSET ATTACHMENT.

SPECIFICATION forming part of Letters Patent No. 407,397, dated July 23, 1889.

Application filed March 29, 1889. Serial No. 305,315. (No model.)

To all whom it may concern:

Be it known that I, GEORGE VAUGHN ELDRIDGE, of Somerville, in the county of Middlesex and State of Massachusetts, have invented a new and useful Improvement in Water-Closet Attachments, of which the following is a specification.

This invention relates to the mechanism whereby the water in the tank is supplied to the bowl when desired by the user; and it consists in the novel combination and arrangement of parts below described, whereby a long "wash" is produced and "hammering" or "pounding" is prevented when the pull-chain is released.

The accompanying drawing shows a view, principally in vertical section, of my improvement.

A represents a portion of the supply-tank, which is constructed in the ordinary manner.

B is a post supported by the tank—in this instance by a cross-bar A′, resting thereon. This post B supports a horizontal bar C, which is bored and threaded near its ends to receive the vertical screws C′.

D is a bifurcated post screwing down upon the post B above the bar C, and forming, by means of the pivot-pin *d*, a fulcrum for the lever E. This lever is preferably provided with numerous perforations *e*, through one of which the pivot *d* extends, whereby said lever is rendered horizontally adjustable.

F is the pull-chain, and H the valve-chain, secured in suitable perforations near the opposite ends of the lever.

I is an adjustable weight adapted to slide on the lever and be secured by a screw at any desired point thereon. The movement of the lever E is adjustably limited by the screws C′, above named, and the chains thus kept taut.

J is a cylinder secured by means of brackets *a* to the tank A.

K is a piston suitably packed and placed in the cylinder, as shown.

L is a tubular piston-rod extending through the top J′ of the cylinder, and provided with a slotted head N, through which the lever E extends. The upper and lower edges of the slot are preferably curved at N′ to accommodate the motion of the lever and prevent friction. One end of this tube L opens in the cylinder and the other in the slot in the head N. The cylinder is provided with an air-hole *o* near its upper end above the piston K.

In practical operation, the chain F is pulled to let on the water, the air leaving the cylinder through the tubular rod L as the piston descends. When the chain F is released, the weighted end of the lever moves down slowly as the air in the cylinder above the piston passes out through the perforation *o*, allowing the piston to rise slowly, thus preventing a sudden shutting off of the water, and the consequent hammering or pounding, and at the same time providing a longer wash. Of course the weight is adjusted so as to produce the exact speed desired in the return of the lever to its normal position.

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

1. In a water-closet attachment, the combination, with the lever E, adjustably weighted, as shown, and provided with the pull-chain F and valve-chain H, of the cylinder J, perforated at *o*, piston or plunger K, tubular rod L, open at its ends, and slotted head N, substantially as and for the purpose set forth.

2. In a water-closet attachment, the combination, with the lever E, adjustably weighted, as shown, and provided with the pull-chain F and valve-chain H, of the cylinder J, perforated at *o*, piston or plunger K, tubular rod L, open at its ends, and slotted head N, having the upper and lower edges of the slot convex at N′, substantially as and for the purpose described.

GEORGE VAUGHN ELDRIDGE.

Witnesses:

HENRY W. WILLIAMS,

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