

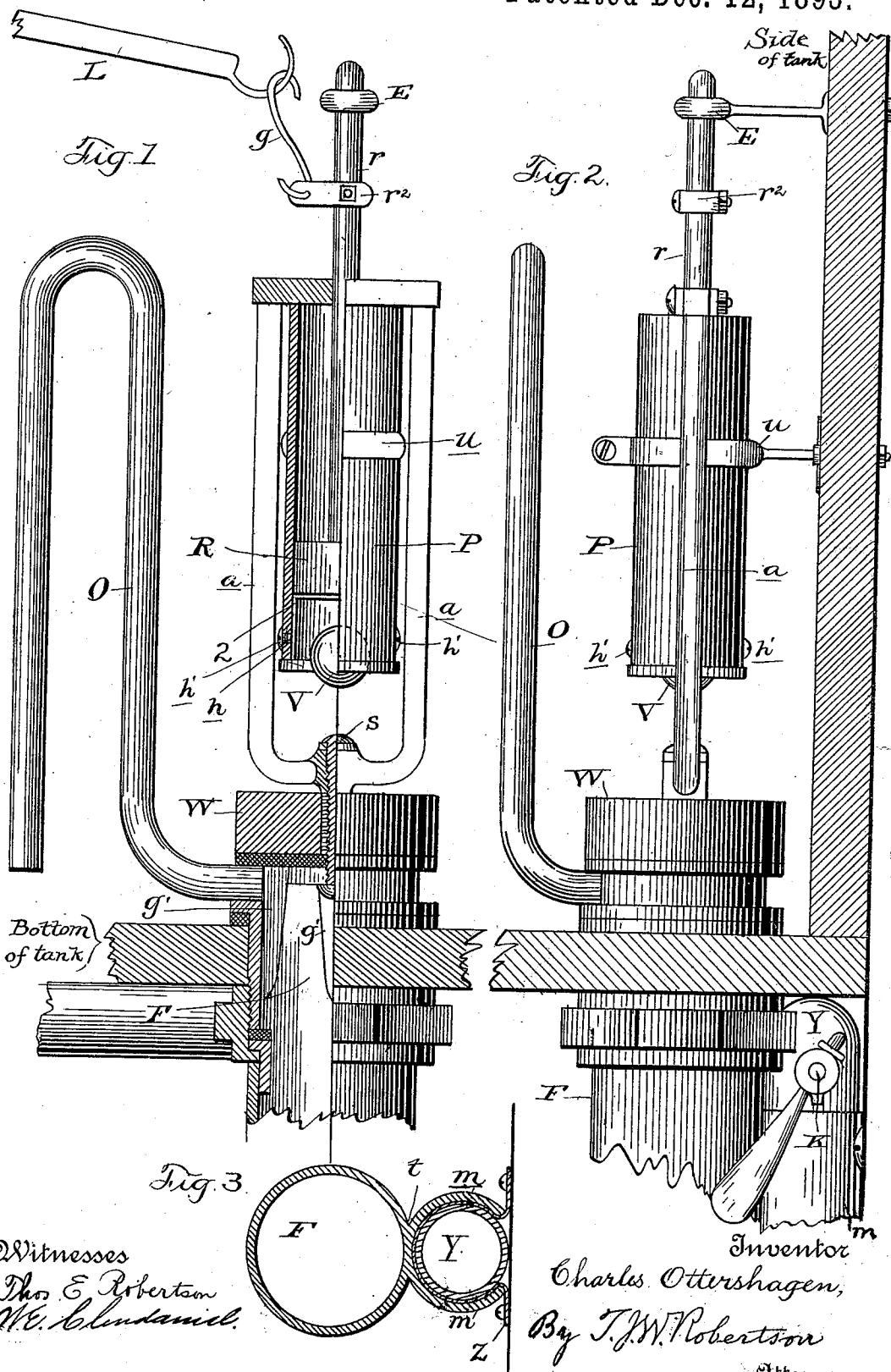
(No Model.)

C. OTTERSHAGEN.

ADJUSTABLE COMBINATION FLUSH AND SUPPLY FOR CLOSET TANKS.

No. 510,649.

Patented Dec. 12, 1893.



Witnesses
Thos E. Robertson
W. E. Glendaniel.

Inventor
Charles Ottershagen,
By T. W. Robertson
Attorney

UNITED STATES PATENT OFFICE.

CHARLES OTTERSHAGEN, OF PORTLAND, OREGON.

ADJUSTABLE COMBINATION FLUSH AND SUPPLY FOR CLOSET-TANKS.

SPECIFICATION forming part of Letters Patent No. 510,649, dated December 12, 1893.

Application filed October 6, 1892. Serial No. 448,025. (No model.)

To all whom it may concern:

Be it known that I, CHARLES OTTERSHAGEN, a citizen of the United States of America, residing at Portland, Multnomah county, State of Oregon, have invented certain new and useful Improvements in an Adjustable Combination Flush and Supply for Closet-Tanks, of which the following is a specification, reference being had therein to the accompanying drawings.

My invention relates to improvements in flush-tanks for water-closets, in which a pump is to be used for raising the plug or weight which closes the flush-pipe, and the flush and supply-pipe are so arranged that the two pipes are under one cover or mantle resembling but one pipe, instead of two as heretofore. I attain these objects by the mechanism illustrated in the accompanying drawings, in which—

Figure 1, is a section and front-view of the same. Fig. 2, is a side-view of same, showing the fastening to the back-wall of the tank. Fig. 3, is a vertical-section of the flush-pipe and of the supply-pipe, showing the mantle covering the supply-pipe which cover is made of overlaps of the material of the flush pipe.

Similar letters refer to similar parts of the views.

When lever "L" is pulled, being connected by means of an S shaped wire or chain "g" with the piston-rod "r," the piston head "R" on piston-rod "r" is raised, sucking the water of the tank into the pump-cylinder "P," raising the arms "a" to which the plug or weight "W" is fastened and thus opening the flush-pipe "F" letting the contents, or part of the contents, of the tank escape through the flush-pipe "F." This pump "P" which is fastened to the wall of the tank by clamp "u" has at its bottom as an inlet for the water a ball-valve "V" which ball is prevented from rising too high by cross-wires "Q." Three or more holes "h" are bored into the cylinder of the pump "P" near the bottom of the same, which may be closed by screws "h'" as shown, and by removing one or more of the screws "h'," the piston-head "R" can be adjusted to drop faster or slower respect-

ively, and consequently the "flush-pipe" "F" can be closed by weight or plug "W" quicker or slower, as the water in the pump "P" may be discharged and hereby regulating the flush-water used for flushing the bowl below. Plug "W" is held in position by means of guides "g'" as used for such purposes. These guides "g'" are connected with the plug "W" and arms "a" by a screw-rivet "s," so that when lever "L" is pulled the weight "W" is raised uncovering the mouth of the flush-pipe "F," and as soon as lever "L" reverses the weight "W" pulls down the piston-head "R" and closes the mouth of the flush pipe "F." The screw-eye "E" holding piston-rod "r" in position, is placed so that lever-holder "r'" must strike against the same, thus preventing the piston-head "R" from leaving the pump-cylinder "P."

The flush-pipe "F" is made of such material that after the same is bent to its proper size, and soldered or fastened together at "t," sufficient material is left on both sides of pipe "F" to form with these overlaps a cover or mantle "m" for the supply-pipe "Y" which is placed directly behind the flush-pipe "F" thus leaving to the eye only one pipe instead of two separated pipes on the wall as heretofore. This flush-pipe "F" with its overlaps or mantle "m" can be made of plated material or lackered to suit, and may be connected with any flush-tank now in use.

To hold flush-pipe "F" with its mantle "m" in position, rings "Z" are soldered or fastened inside of the mantle "m" to the mantle at certain distances, and screwed to the wall of the closet as shown in Fig. 3.

The supply-pipe "Y" is bent under the bottom of the tank or inside of the same and connected with a copper swimmer in the same manner as heretofore in use, and a stop-cock "K" may be placed where shown to shut-off the water when necessary.

To prevent the tank from overflowing, a goose-neck over-flow-pipe "O" is connected with the head of the flush-pipe "F," below the upper rim of the same as shown in Figs. 1 and 2.

I am aware that prior to my invention flush-

tanks for water-closets and other purposes have been made with flush and supply-pipes, and weights for closing the mouth of the flush-pipe. I therefore do not claim such a combination broadly, but

What I do claim as my invention, and desire to secure by Letters Patent, is—

1. In a flush tank, a flush-pipe F, a weight W closing said pipe, a cylinder P above said pipe and weight having valve V and outlet *h* therein, a piston R working in said cylinder, a piston rod for said piston, and a yoke *a* extending down on each side and under said cylinder and connecting the piston rod with the weight W underneath said piston and above the weight and adapted to lift the valve V

if said valve fails to act, substantially as described.

2. In a flush tank, supply pipe Y, flush-pipe F provided with the overlaps *m* adapted to partially surround said supply pipe Y, and a ring *z*, between said overlaps *m* and supply pipe, adapted to be secured to a wall, substantially as described.

In testimony whereof I affix my signature, in presence of two witnesses, this 30th day of June, 1892.

CHARLES OTTERSHAGEN.

Witnesses:

A. OHLHOFF,
H. SALDERN.