

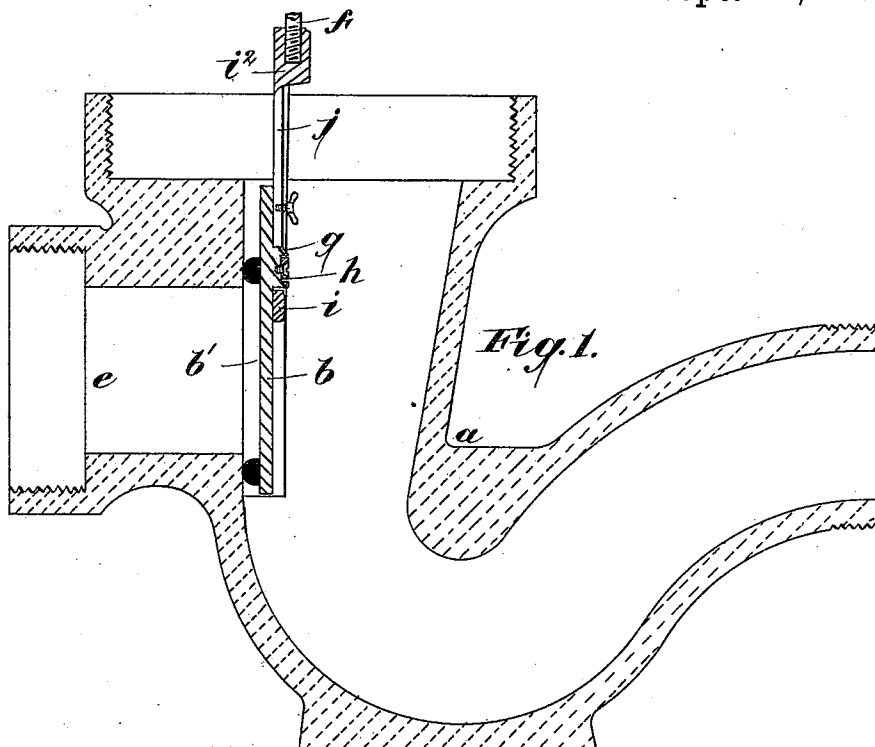
(No Model.)

W. KEITH.

TESTING AND FLUSHING DRAIN PIPES, &c.

No. 546,766.

Patented Sept. 24, 1895.



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# UNITED STATES PATENT OFFICE.

WILLIAM KEITH, OF ALLOA, SCOTLAND.

## TESTING AND FLUSHING DRAIN-PIPES, &c.

SPECIFICATION forming part of Letters Patent No. 546,766, dated September 24, 1895.

Application filed October 10, 1894. Serial No. 525,458. (No model.) Patented in England November 10, 1893, No. 21,394.

*To all whom it may concern:*

Be it known that I, WILLIAM KEITH, a subject of the Queen of Great Britain, and a resident of the town of Alloa, Clackmannanshire, Scotland, have invented certain new and useful Improvements in and Relating to the Testing and Flushing of Drain-Pipes, Soil-Pipes, and Such Like, (for which I have obtained Letters Patent in Great Britain November 10, 1893, No. 21,394,) of which the following is a specification.

In the drawings, Figure 1 is a longitudinal section of a drain-trap having a slide-valve fitted therein. Fig. 2 is a part plan of the drain-trap. Fig. 3 is a side view, and Fig. 4 a back view, of the valve.

A metal slide-valve *b*, having a rubber ring *b'* on its face, is fitted in the earthenware drain-trap *a*. This valve can be worked up and down in the vertical grooves *c c'* made in the sides of the trap, so as to open and close the passage-way *e*. Secured to the back of the valve by means of a projection *g*, cast on the valve, and a catch or button *h*, screwed to the projection, is a wedge-plate *i*, having a vertical slot *j* in it. The part of the plate *i* may be made thinner and be countersunk at *i'* in order to save metal and decrease the weight. As will be seen, the handle *f* is fitted in the socket *i<sup>2</sup>* of the wedge-plate *i*. The arrangement is such that when it is desired to water-test or flush the drain the valve-plate *b* is lowered into the grooves *c c'* of the trap, so as to seal up or close the passage-way *e* and prevent water passing through it. By pressing down the wedge-plate *i* in the grooves *c c'* the rubber face-ring *b'* is pressed very tightly

against the face of the passage-way *e* and a thorough water-tight closure is thus effected. The drain and soil pipes leading to the house can now be filled with water and thoroughly tested. When the testing is finished the valve *i* may be drawn up out of place and the water allowed to rush down to the sewer and thoroughly flush and scour out the pipes and drain.

The slot *j* and projection *g* guide the wedge-plate *i* in its up and down movements. The valve *i* may be kept in the house and only used when desired, or it may be kept in the manhole above the trap.

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

1. A trap having a discharge *e* and a manhole, a plate-valve, the grooves *c, c'*, arranged to receive the plate valve inserted through the manhole to cover the discharge *e* and a wedge also adapted to said grooves *c, c'*, and arranged to be operated through the manhole, substantially as described.

2. In combination, the trap having the opening *e* and the manhole, the grooves adjacent to the opening, the plate valve arranged in said grooves and having a boss *g*, and the slotted wedge plate adapted to said grooves and boss, substantially as described.

Signed at Glasgow, Scotland, this 24th day of September, A. D. 1894.

WILLIAM KEITH.

Witnesses:

HUGH FITZPATRICK,  
WILLIAM FLEMING.