

(No Model.)

S. G. McFARLAND.
Bath Waste and Overflow.

No. 229,627.

Patented July 6, 1880.

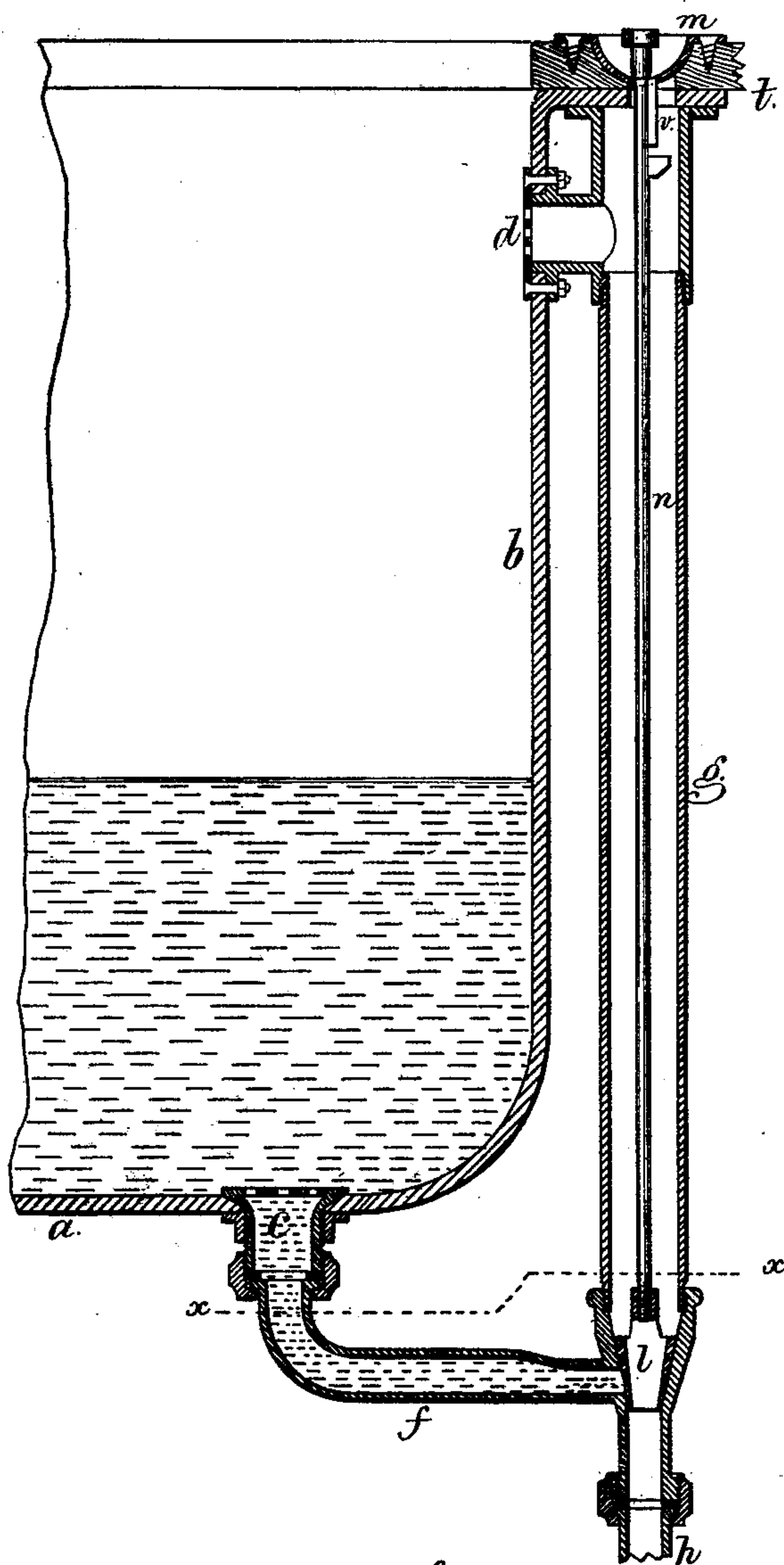


Fig. 1

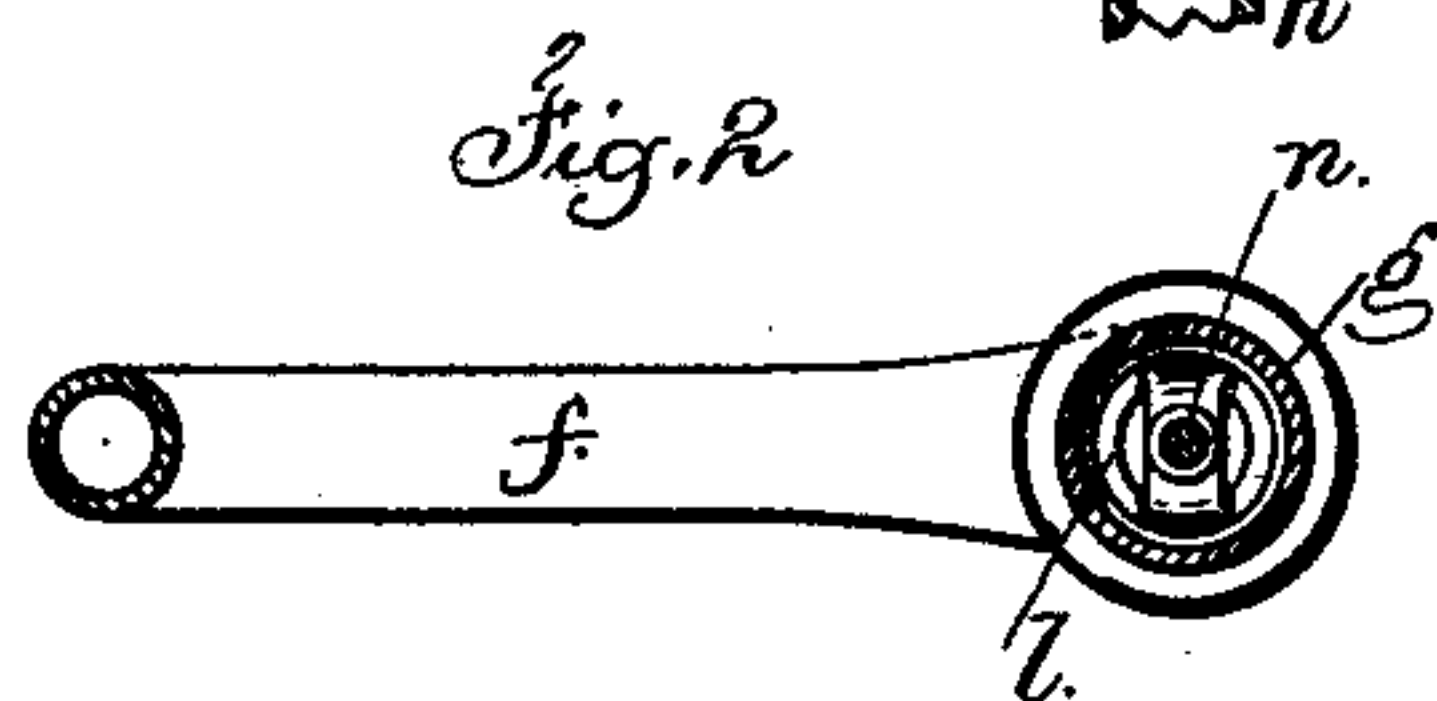


Fig. 2

Witnesses

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UNITED STATES PATENT OFFICE.

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BATH WASTE AND OVERFLOW.

SPECIFICATION forming part of Letters Patent No. 229,627, dated July 6, 1880.

Application filed May 7, 1880. (No model.)

To all whom it may concern:

Be it known that I, SAMUEL G. McFARLAND, of Newton, in the county of Middlesex and State of Massachusetts, have invented an
5 Improvement in Bath Wastes and Overflows, of which the following is a specification.

Before my invention basin and bath overflows and waste-pipes had been joined and a valve made use of in the vertical portion of the
10 tubes. Such valve, however, was at the bottom of a long tube that retained the water and below the entrance of the bath waste-pipe, and any overflow passed down through this tube, forming at the bottom the valve. In
15 this case the dirty water rose in the vertical tube and around the tube of the valve, and soapy matter deposited upon the surfaces and became offensive.

My present invention is for the purpose of
20 preventing the rise of the dirty water in the vertical pipe without interfering with the overflow of surplus water whenever the water rises sufficiently high.

In the drawings, Figure 1 is a vertical section of the waste and overflow pipes, and Fig.
25 2 is a plan below the line *x x*.

a represents the bottom, and *b* the end or side, of any ordinary bath tub or basin. *c* is the waste or discharge pipe from the bottom, and *d* is the overflow-opening in the side or
30 end of the tub at the place where the limit is set for the bath to be filled. It is to be borne in mind that the water very seldom is allowed to rise to this level, and the overflow is only
35 required to prevent the tub becoming too full through neglect to shut off the water.

The horizontal tube *f* unites with the vertical tube *g*, and these are connected, respectively, at *c* and *d* with the bath-tub; and *h* is
40 the pipe leading to the sewer.

At the junction of the tubes *f*, *g*, and *h* a conical valve-seat is constructed, and the horizontal pipe *f* enters at about the middle of this conical valve-seat, and the tubular conical valve *l* is ground at its upper and lower
45 end to fit the conical seat, and said valve is

cut away in the center to lessen friction, and as it extends both above and below the tube *f* the water from the bath-tub is retained by such valve, and cannot pass up into the tube *g* 50 or down into the tube *h*, and at the same time the tube of the valve forms a passage for water from *g* to *h*, should the water accumulate in the bath-tub and pass the overflow *d*.

The tube *g* extends upwardly and opens 55 through the coping *t* of the bath, and there is a removable cup, *m*, over such opening.

The stem *n* of the tubular valve *l* passes up through the cup and terminates with a handle, so that the valve can be raised when the 60 water is to be discharged from the bath-tub; and I make use of a key or feather, *v*, at one side of the valve-stem and slot the cup for its passage, so that when the valve has been raised it can be supported by the lower end of 65 the key within the cup, the valve-stem being partially rotated to turn the key aside from the slot in the cup.

When the valve or pipe requires to be cleaned the cup can be removed and the valve 70 drawn up, and free access is given to the valve-seat. Under ordinary circumstances this will not require to be done, because the water passes off below the valve, and there is nothing that is likely to become clogged or soiled. 75

I claim as my invention—

The combination, with the pipes *f* and *g*, connected, respectively, to the overflow *d* and waste *c*, of the tubular valve and the valve-seat, that extend both above and below the 80 intersection of the pipe *f*, so as to close the same, but allow the passage from the overflow *d* *g* to remain open through the tubular valve *l* to the sewer *h*, substantially as set forth. 85

Signed by me this 4th day of May, A. D. 1880.

SAMUEL G. McFARLAND.

Witnesses:

GEO. T. PINCKNEY,
CHAS. H. SMITH.