(No Model.)

T. BUTLER.

BATH WASTE AND OVERFLOW.

No. 346,579. Patented Aug. 3, 1886.

Fig. 1.

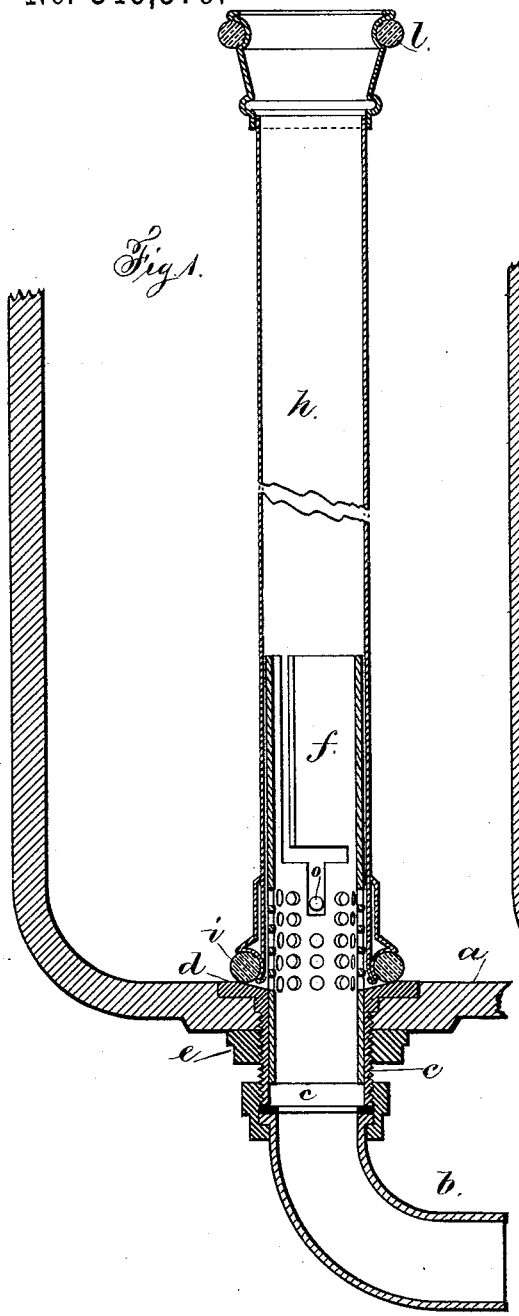


Fig. 3.

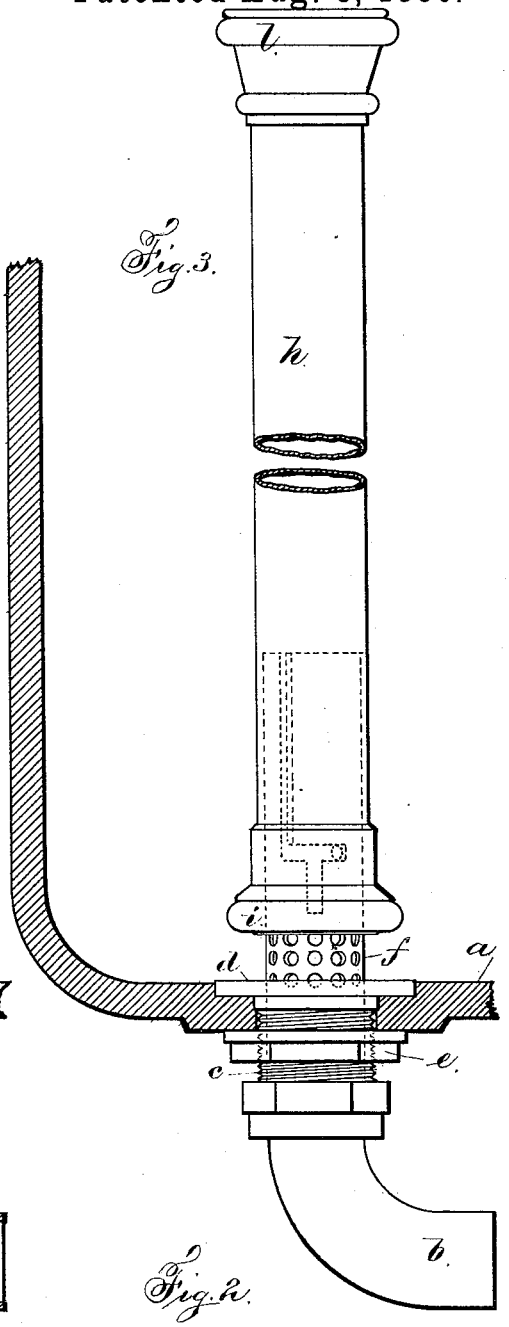
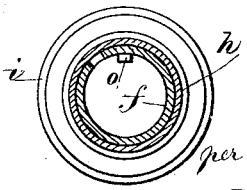


Fig. 2.



Witnesses
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UNITED STATES PATENT OFFICE.

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BATH WASTE AND OVERFLOW.

SPECIFICATION forming part of Letters Patent No. 346,579, dated August 3, 1886.

Application filed April 17, 1886. Serial No. 199,171. (No model.)

To all whom it may concern:

Be it known that I, THEODORE BUTLER, of the city and State of New York, have invented an Improvement in Bath Wastes and Overflows, of which the following is a specification.

Bath overflow-pipes have been removable from the end of the fixed waste-pipe at the bottom of the bath, but the same is very liable to injure the metal lining of the bath-tub by being carelessly laid down or dropped into such bath-tub.

My present improvement relates to the overflow-pipe and the tubular perforated standing waste-pipe for the same, the movable overflow-pipe being provided with annular elastic buffers at the ends, by which injury to the bath-tub is prevented if the said pipe is laid down carelessly or falls within the bath-tub. One of these annular elastic buffers forms a valve when the overflow-pipe is upon the tubular perforated standing waste, and when the overflow-pipe is lifted it can be supported by a bayonet-lock, to allow the water to pass off through the perforations in the standing waste.

In the drawings, Figure 1 is a vertical section of the waste and overflow. Fig. 2 is a sectional plan of the same, and Fig. 3 is an elevation.

The bottom *a* of the bath-tub is provided with a fixed waste-pipe, *b*, of any usual character. Preferably the said pipe is connected to the lower end of the coupling *c*, and at the upper end of the coupling is the valve-seat *d*, around which the sheet-metal lining of the bath-tub is soldered; or, in cases where this improvement is applied to a porcelain or cast-iron bath-tub, the seat is received into a recess in the bottom of the tub, the nut *e* being used to clamp the parts in place.

Within and secured to the waste-pipe, and rising above it, is the standing waste-pipe *f*, that is of sheet-metal and perforated with numerous holes, through which the water can escape freely. The movable overflow-pipe *h* is of a size to pass freely over the stand-pipe *f*, and it is of a length that allows the water to flow over the top when the maximum height of water has been attained in the bath-tub. At the lower end of this overflow-pipe *h* is a valve, *i*, resting upon the seat *d*, and forming a water-tight joint. This valve is preferably a ring of india-rubber, that is sprung into an annular groove around the lower end of the stand-pipe. This overflow-pipe can be raised up to allow the water to escape through the perforations of the stand-pipe, and for the purpose of sustaining the overflow-pipe any suitable means may be made use of. I have shown a stud, *o*, projecting inwardly from the overflow-pipe and passing into a slot in the stand-pipe *f*. This slot is made with horizontal branch slots similar to bayonet-lock slots, so that the overflow-pipe can be lifted, and then sustained by turning the pipe in either direction to bring the stud into one of the horizontal branch slots, or the overflow-pipe can be lifted entirely off the stand-pipe.

To protect the bath from injury if the overflow-pipe is allowed to drop, I place a second elastic ring, *l*, around the same at or near the upper end, and projecting sufficiently to form an annular elastic buffer. The lower ring, *i*, also forms an annular elastic buffer, and it is shown as also forming the valve. If both ends of the overflow-pipe are made alike, the same may be placed over the stand-pipe *f*, with either end downwardly.

I claim as my invention—

1. The combination, with the bath-tub and the perforated standing waste-pipe rising above the bottom thereof, of a removable overflow-pipe passing over the standing waste-pipe, and having a rubber ring around the lower end resting upon a seat around the waste-pipe and forming a valve to the overflow-pipe, substantially as set forth.

2. The combination, with the stationary tubular perforated standing waste-pipe *f*, and a seat around the exterior surface of the same, of a removable overflow-pipe, an annular elastic valve around the same, and a stud within said overflow-pipe and passing into a bayonet-slot in the standing waste-pipe for sustaining the overflow-pipe when raised, and for allowing said overflow-pipe to be removed, substantially as set forth.

Signed by me this 12th day of April, A. D. 1886.

THEODORE BUTLER.

Witnesses:
WM. A. CAULFIELD,
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