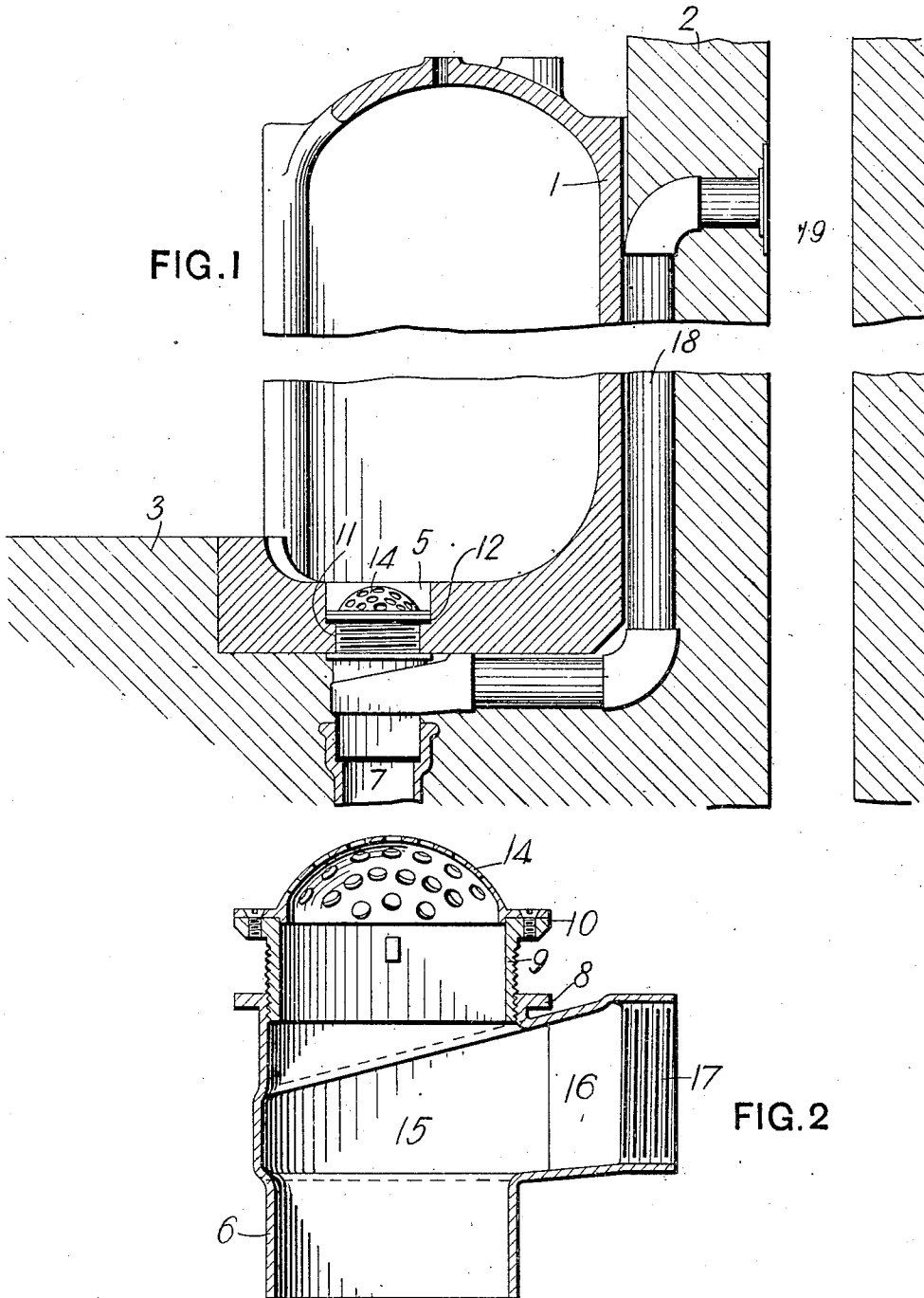


J. M. YOUNG.
VENTILATING FITTING FOR URINALS, &c.
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954,558.

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WITNESSES.

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VENTILATING-FITTING FOR URINALS, &c.

954,558.

Specification of Letters Patent.

Patented Apr. 12, 1910.

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To all whom it may concern:

Be it known that I, JAMES M. YOUNG, a resident of Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented a new and useful Improvement in Ventilating-Fittings for Urinals, &c., of which the following is a specification.

This invention relates to a flushing and ventilating fitting for urinals, bowls, sinks and hoppers and other fixtures.

The object of the invention is to provide a flushing fitting having a ventilating connection, which fitting is compact and of short length so that it can be conveniently placed in floors of standard thickness.

The invention comprises a fitting such as hereinafter described and claimed.

In the accompanying drawings Figure 1 is a vertical section, through a fixture having my invention applied thereto showing the fitting in side view; and Fig. 2 is a vertical section through the fitting on an enlarged scale.

My fitting is designed particularly for flushing and ventilating such fixtures as are usually set on the floor and in which the flushing fitting is embedded in the floor.

In the drawing the fixture is shown as the standard form of urinal 1 whose back is set up against wall 2 and base is set into the floor 3. This fixture in its bottom is provided with a flushing outlet 5. My improved fitting is secured in the flushing outlet and comprises a suitable tubular body 6 open at its lower end for connection to pipe 7 leading to the sewer and being internally threaded at its upper end and provided with flange 8. This body is secured in the outlet of the fixture by means of sleeve 9 threaded externally and engaging the internal threads of body 6, sleeve 9 being provided with flange 10. The flanges 8 and 10 are clamped respectively against the bottom face of the fixture and the top face of an inwardly projecting portion 11 thereof, as shown in Fig. 1. A packing washer or gasket 12 is placed underneath the flange 10 to form a water-tight connection. A strainer 14 of suitable construction is secured to sleeve 9.

The fixture so far described is not new. My improvement consists in combining the same with a ventilating connection and so arranged as not to materially extend the length of the fitting. To this end the body

6 of the fitting is provided with an internal annular enlargement 15 which communicates with a side opening 16 in the side outlet-connection 17 which is internally threaded to receive the ventilating pipe 18 which leads backwardly and thence upwardly and is connected to a suitable stack or ventilating flue 19. The internal enlargement 15 is formed eccentric to the axis of the body 6 and also flares vertically toward the side outlet side, so that it increases in size toward the outlet opening 16, in order that the gases and odors to be conveyed away may separate from the stream of water and escape through the side outlet. The side outlet-connection 17 is cast integral with the body 6 and the bottom thereof preferably slopes toward the flushing outlet so that if any water should back up into the ventilating pipe it will run out and not stand therein and foul the fitting.

The fitting described is of simple construction and can be applied by any apprentice. It provides an effective ventilation of the fixture and does not make the outlet fitting so long that it cannot be readily placed in a floor of usual thickness.

What I claim is:

1. A flushing and ventilating fitting comprising a tubular member having its upper end arranged for detachable connection to the outlet of the fixture to be flushed and provided with an internal circumferential enlargement connecting laterally with the passage through said tubular member entirely around the same and leading to a side ventilating outlet-connection integral with said tubular member.

2. A flushing and ventilating fitting comprising a tubular member having its upper end arranged for detachable connection to the outlet of the fixture to be flushed and provided with an internal circumferential enlargement connecting laterally with the passage through said tubular member entirely around the same and leading to a side ventilating outlet-connection integral with said tubular member, said circumferential enlargement increasing in size toward the side ventilating outlet.

3. A flushing and ventilating fitting comprising a tubular body having its upper end arranged for detachable connection to the outlet of the fixture to be flushed and provided with an internal circumferential en-

largement connecting laterally with the passage through said tubular member entirely around the same and leading to a side ventilating outlet-connection integral with
5 said tubular member, the lower wall of said side outlet-connection sloping toward the body.

4. A flushing and ventilating fitting comprising a tubular member flanged and internally threaded at its upper end and being
10 open at its lower end and provided with an internal circumferential enlargement connecting laterally with the passage through

said tubular member entirely around the same and leading to a side ventilating outlet connection integral therewith, and an externally threaded sleeve fitting the upper
15 end of said tubular member and being provided with a flange at its upper end.

In testimony whereof, I have hereunto set
20 my hand.

JAMES M. YOUNG.

Witnesses:

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