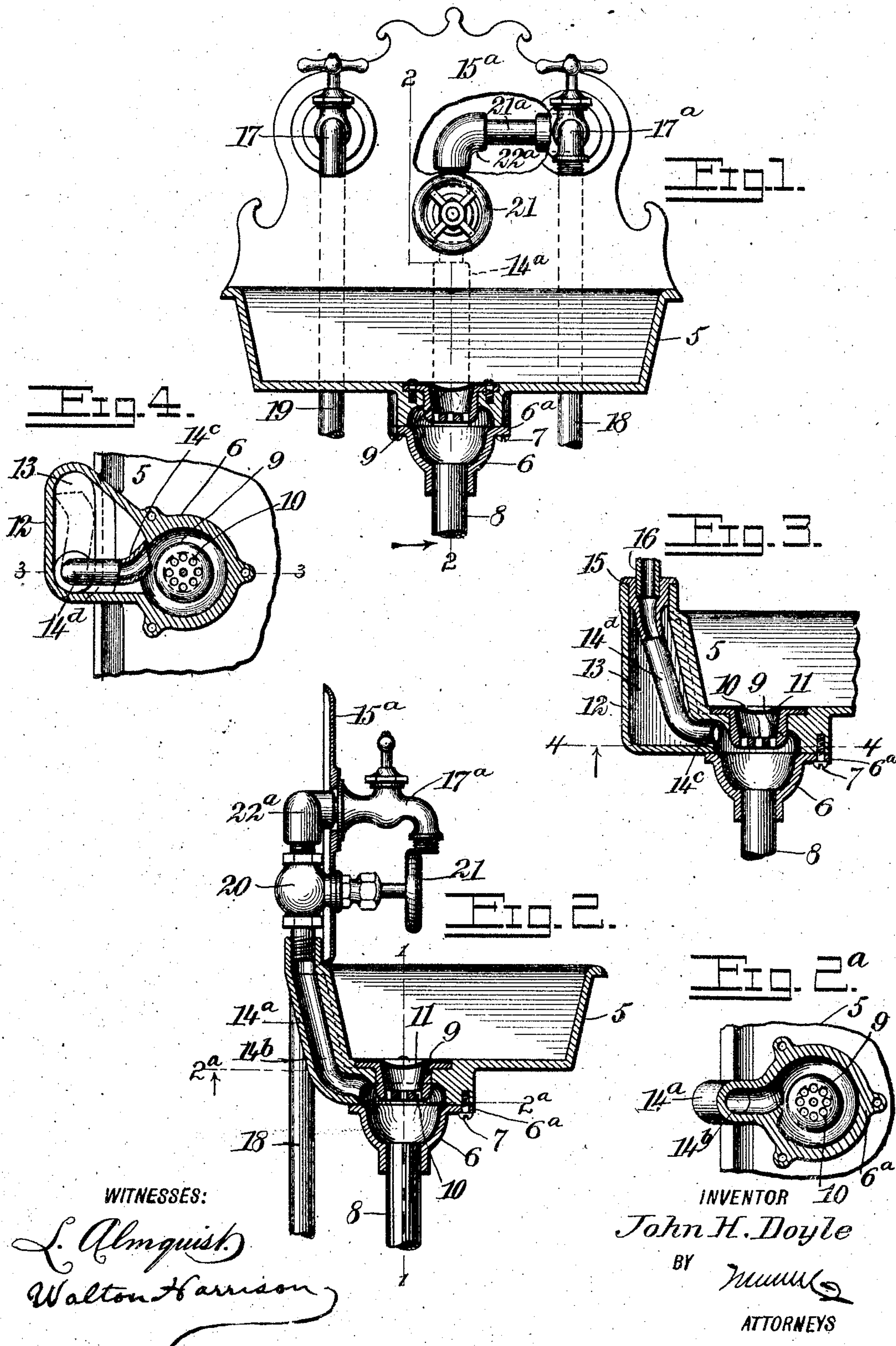


No. 786,738.

PATENTED APR. 4, 1905.

J. H. DOYLE.  
DOMESTIC SINK.

APPLICATION FILED SEPT. 22, 1904.





## UNITED STATES PATENT OFFICE.

JOHN HENRY DOYLE, OF NEW ORLEANS, LOUISIANA.

## DOMESTIC SINK.

SPECIFICATION forming part of Letters Patent No. 786,738, dated April 4, 1905.

Application filed September 22, 1904. Serial No. 225,466.

*To all whom it may concern:*

Be it known that I, JOHN HENRY DOYLE, a citizen of the United States, and a resident of New Orleans, in the parish of Orleans and State of Louisiana, have invented a new and Improved Domestic Sink, of which the following is a full, clear, and exact description.

My invention relates to domestic sinks, basins, and the like, my more particular object being to provide means for flushing the drain-pipe without the necessity of passing water through the sink, basin, or analogous utensil.

My invention further relates to certain improvements in the construction of domestic sinks and the like, substantially as described below and defined in the appended claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the figures.

Figure 1 is a front elevation, partly in section, on the line 1 1 of Fig. 2, showing one form of my device as applied to a sink or analogous domestic utensil. Fig. 2 is a vertical section through the same upon the line 2 2 of Fig. 1 looking in the direction of the arrow. Fig. 2<sup>a</sup> is a fragmentary section upon the line 2<sup>a</sup> 2<sup>a</sup> of Fig. 2 looking in the direction of the arrow and showing means for producing a spiral spray within the funnel of the device. Fig. 3 is a fragmentary section somewhat similar to Fig. 2 and on the line 3 3 of Fig. 4, but showing another form of mechanism for producing the whirling jet; and Fig. 4 is a horizontal section upon the line 4 4 of Fig. 3 looking in the direction of the arrow and showing the pipe for producing a whirling spray and also indicating how the pipe is placed in position.

A receptacle 5, such as a sink or basin, is provided at its bottom with a funnel 6, having a flange 6<sup>a</sup> integral therewith, this flange being provided with screws 7 or other fastenings whereby the funnel is held in position below the sink or basin 5. The drain-pipe is shown at 8 and is connected with the funnel 6. A pocket 9, having, preferably, a cup-like form, as indicated, and provided with perforations 10, is covered by a screen 11, made, preferably, concave and perforated, as

shown. A casing 12, preferably integral with the body portion 5 of the sink or basin, is provided with a chamber 13, through which passes a pipe 14, provided at its upper end with a flange 15 and connected with a water-pipe 16. A splash-board 15<sup>a</sup> is mounted at the back of the sink or basin 5 and may be integral therewith, as indicated. Spigots are shown at 17 17<sup>a</sup> and are connected with the pipes 19 18 in the usual manner. Leading upward from a globe-valve 20 and in communication therewith is an elbow-joint 22<sup>a</sup>, connected by a straight joint 21<sup>a</sup> with the pipe 18.

In the construction shown in Figs. 1, 2, and 2<sup>a</sup> the globe-valve 20 is in communication with an annulus 14<sup>a</sup>, integral with the body portion 5 of the sink or basin, this annulus being provided with a passage 14<sup>b</sup>, cored through the solid metal and bent laterally, as indicated in Fig. 2<sup>a</sup>. This cored passage 14<sup>b</sup> admits the water to the funnel 6 in the form of a whirling jet, the admission of the water being controllable by a hand-valve 21.

The construction shown in Figs. 3 and 4 differs from that shown in the other figures in having the casing 12, provided with the chamber 13, made comparatively large, as indicated, and in having a pipe 14<sup>d</sup>, provided with a spout 14<sup>e</sup>, bent laterally, as indicated, the position of this pipe being such that it directs a jet of water laterally, so as to strike the funnel 6 at an angle, thus producing a whirling jet. The chamber 13 is given the shape indicated in Fig. 4 in order to allow for the introduction of the pipe 14<sup>d</sup> and to permit the same to be adjusted before being firmly secured in position. The manner of introducing this pipe is indicated by dotted lines in Fig. 4. The pipe being once in position and firmly secured is no longer movable.

It will be noted that in both forms above described the pipe 14 or the cored passage 14<sup>b</sup> is on the outside of the body portion of the sink or basin 5, so that the interior thereof is not marred or distorted in the least.

I do not limit myself to the exact details of the construction above described, as various changes may be made in the construction without departing from the spirit of my invention.



Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. The combination of a basin provided at its bottom with an aperture, a pocket connected  
5 with said basin and projecting through said aperture, said pocket being provided with perforations, and means for directing a stream of water tangentially against the exterior of said pocket.
- 10 2. The combination of a basin provided with a perforated pocket depending therefrom, and means for directing a stream of water tangentially upon the outer surface of said pocket.
- 15 3. The combination of a basin provided with a perforated pocket depending therefrom, and also provided with a screen covering said pocket, and means for directing a stream of water tangentially against the exterior of said pocket.

4. The combination of a basin provided with a perforated pocket depending therefrom, and means for directing a stream of water tangentially against the outer surface of said pocket. 20

5. The combination of a basin provided with a pocket depending therefrom for discharging  
25 a liquid, a funnel disposed adjacent to said pocket and encircling the same, and means for directing a stream of water tangentially into the space intermediate of said pocket and said funnel. 30

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

JOHN HENRY DOYLE.

Witnesses:

WALTON HARRISON,  
EVERARD BOLTON MARSHALL.