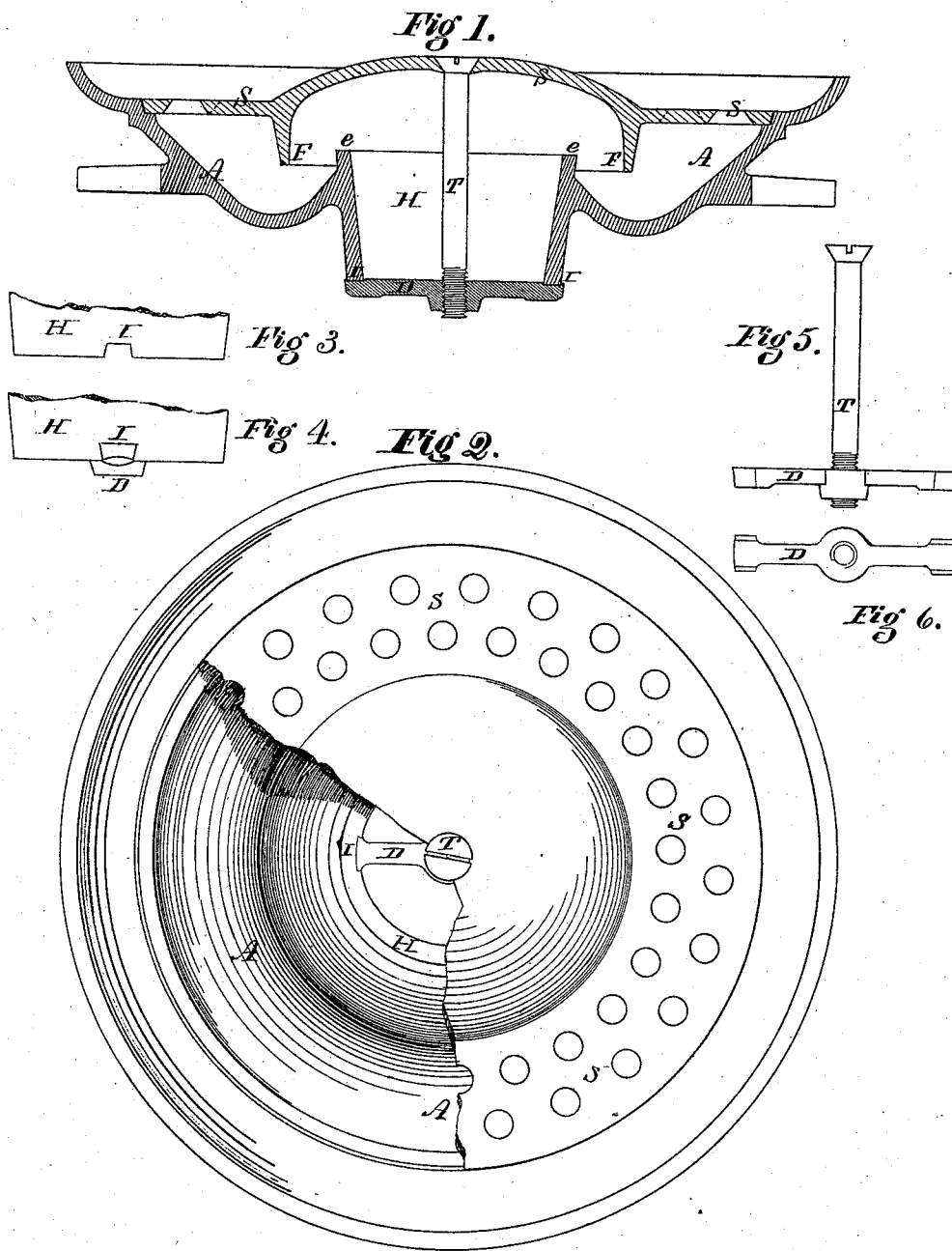


J. LEWIS.
Outlets for Sinks, &c.

No. 149,489.

Patented April 7, 1874.



Witnesses. *Sam A. Brumell* Inventor. *Jason Lewis*
David Wheaton

UNITED STATES PATENT OFFICE.

JASON LEWIS, OF PROVIDENCE, RHODE ISLAND, ASSIGNOR TO CYRUS BUTLER, OF SAME PLACE.

IMPROVEMENT IN OUTLETS FOR SINKS, &c.

Specification forming part of Letters Patent No. **149,489**, dated April 7, 1874; application filed March 6, 1874.

To all whom it may concern:

Be it known that I, JASON LEWIS, of Providence, in the county of Providence and State of Rhode Island, have invented a new and useful Improvement in the Outlet of Sinks, &c., of which the following is a specification, referring to the accompanying drawing making part of the same, in which—

Figure 1 is a vertical section of a trap-outlet of a sink with my said improvement. Fig. 2 is a plan or top view of the same, with part of the strainer broken away to give an unobstructed view of the parts beneath it. Figs. 3 and 4 are details of the application of my improvement to the nozzle H, hereinafter fully explained. Figs. 5 and 6 are details of the screw and cross-bar, also herein fully explained.

Similar letters mark like parts in all the figures.

My invention relates to the means for fastening the strainer over the outlet of the sink in a simple, cheap, and effective manner; and consists of a screw passing through the center of the strainer, and screwing into the middle of a removable cross-bar extending across the outlet, the object being to secure the strainer in its place, so that it may be readily removed for clearing the trap and outlet of any obstructions, but in a manner that requires no drilling or tapping of holes into the cast-iron sink or outlet, so that all difficult handling of the heavy sink for such purpose is avoided, and that requires no change in the construction of the parts, except two slight notches in the outlet, whereby all difficulty of casting and imperfection of the same are entirely avoided.

In the drawing, H is the outlet, and A is the surrounding basin, of a cast-iron sink, forming part of the cast-iron bottom of the same. S is the strainer, having a dome above, and a flange, F, beneath, extending below the upper edge *e* of the nozzle or outlet H, into the said basin A, to form a stench-trap, in a manner well known, besides stiffening the strainer to resist blows and pressure upon it.

In order that the strainer shall exclude obstructions and the trap offensive smells, it must be secured in its place over the outlet. This has been done in a number of ways heretofore, but none of which, so far as I am aware, without some kind of objection, most

of which by this invention of mine I have been able to overcome or avoid altogether. This is accomplished by providing a cross-bar, D, across the outlet H, which is made separately from the sink casting, and preferably of brass or incorrodible metal, and is held by its ends in two dovetail notches, I, in the lower edge of the outlet H, as shown in Figs. 1 and 4. These notches are first cast in the form shown in Fig. 3, so as to readily draw from the mold, and are afterward filed into the dovetail form; and after the cross-bar D is inserted therein it may be permanently secured in its place by spreading the ends of the cross-bar by hammering it. In the middle of the cross-bar a hole is drilled and tapped, into which the single screw T, which passes through the center of the strainer, is screwed, the head of the screw being countersunk in the strainer, and by setting up the screw the strainer is secured in its place.

This device is extremely simple, but its utility will be fully understood and appreciated when it is considered that it is almost impossible to cast a cross-bar like D across the nozzle, owing to its liability to come imperfect, and thus spoil the whole sink; and even if these could be cast perfect, the whole sink would have to be lifted and handled and properly mounted to drill and tap the hole in the cross-bar for the screw T, which in the separate cross-bar is entirely avoided, and the work is greatly simplified and cheapened without necessity of changing the construction of the sink's pattern, except in the matter of the notches, whereby it is readily applied to any sink nozzle or outlet.

The waste-pipe is secured upon the outside of the nozzle H to lugs provided for the purpose, or in any well-known and effective manner.

Having described my invention, I claim—

The screw T and cross-bar D, in combination with the strainer and outlet of the sink, as described, when arranged and applied thereto substantially in the manner and to effect the purpose specified.

JASON LEWIS.

Witnesses:

ISAAC A. BROWNELL,
DAVID HEATON.