

(No Model.)

S. LANE, Jr.

OVERFLOW TRAP FOR WASH BASINS, BATH TUBS, &c.

No. 332,911.

Patented Dec. 22, 1885.

Fig. 1.

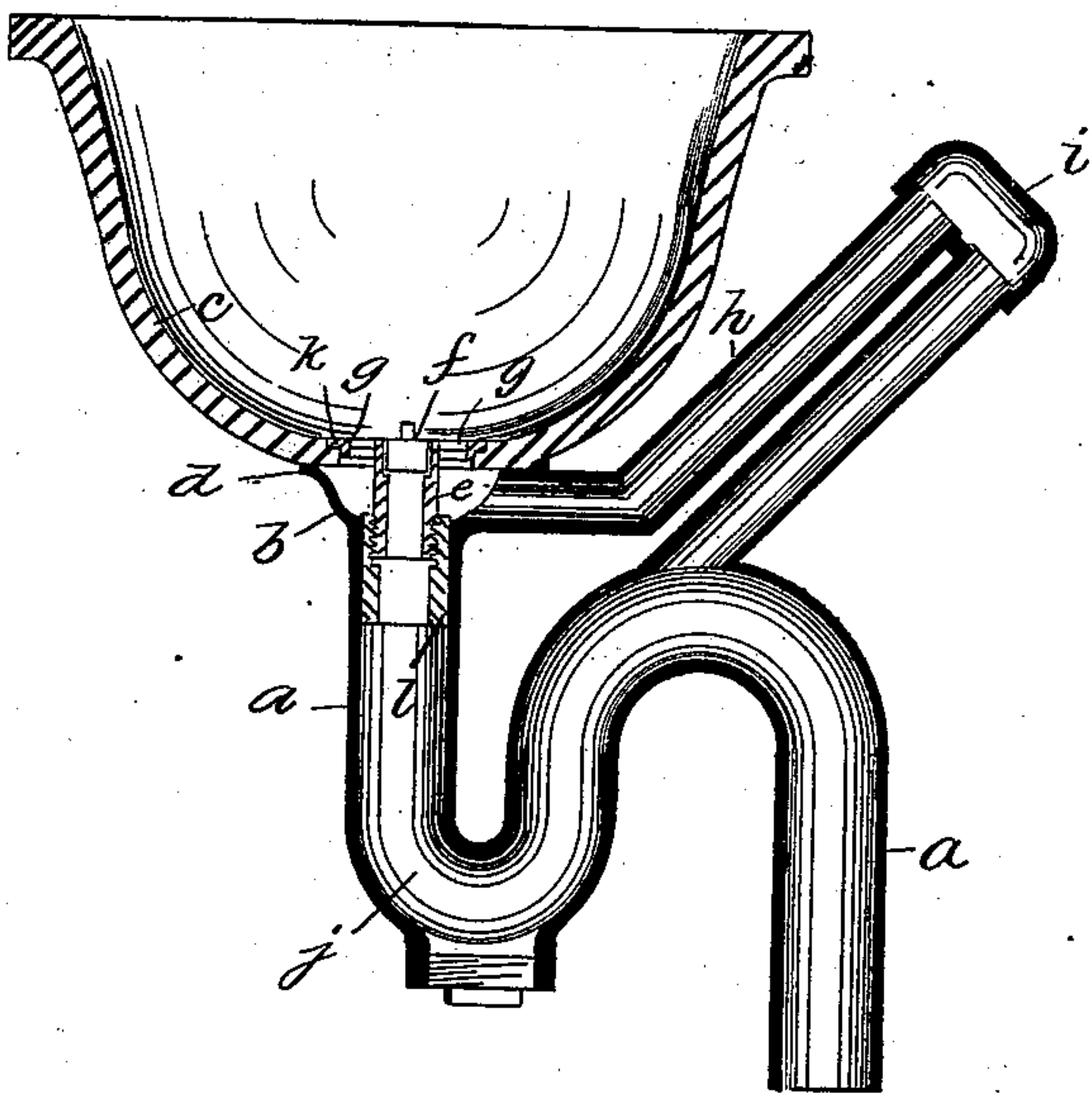
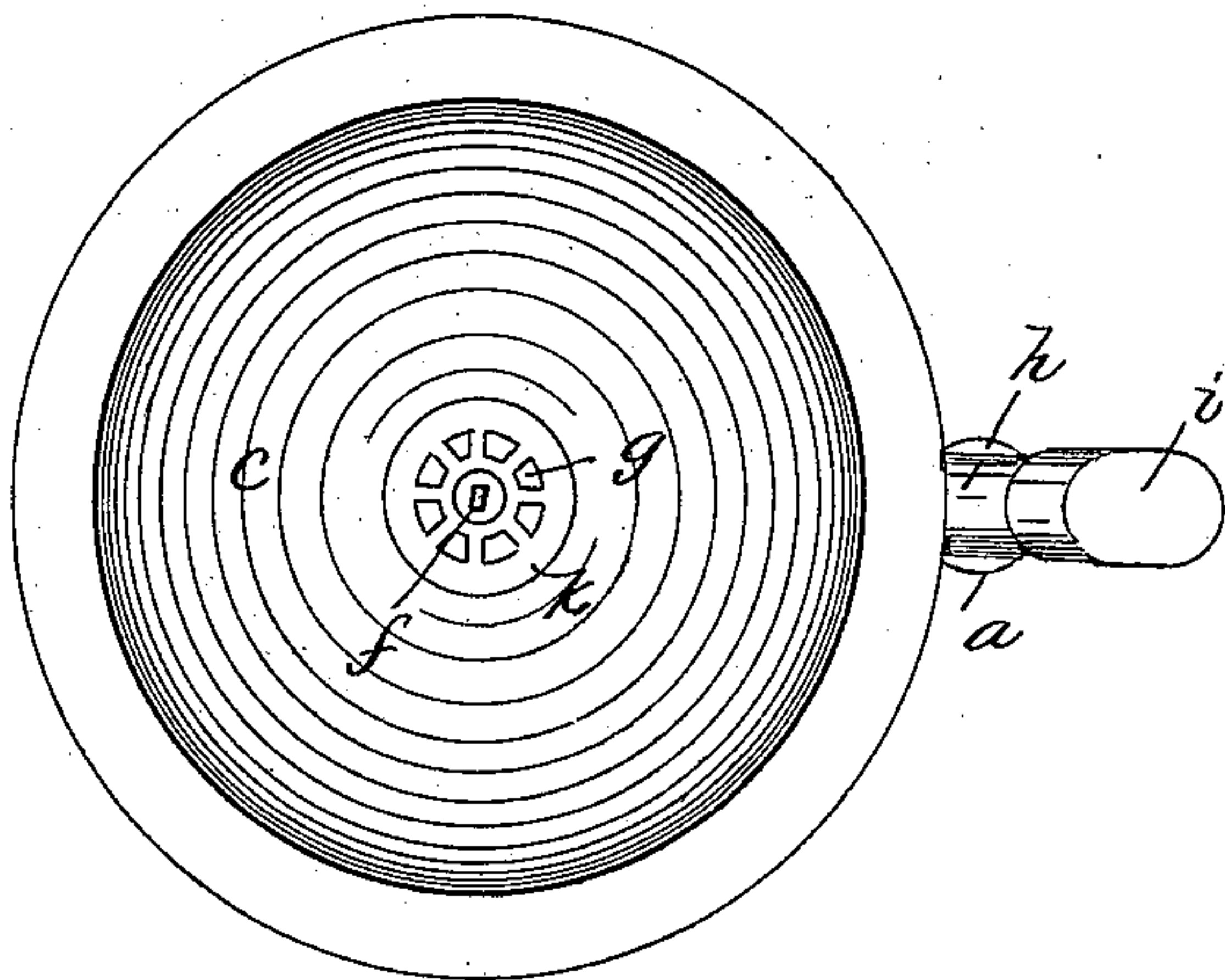


Fig. 2.



WITNESSES=

W. J. Morgan,
S. J. Morgan

INVENTOR=

Stephen Lane, Jr.
By A. P. Thayer
att'y

UNITED STATES PATENT OFFICE.

STEPHEN LANE, JR., OF NEW YORK, N. Y.

OVERFLOW-TRAP FOR WASH-BASINS, BATH-TUBS, &c.

SPECIFICATION forming part of Letters Patent No. 332,911, dated December 22, 1885.

Application filed June 10, 1885. Serial No. 168,213. (No model.)

To all whom it may concern:

Be it known that I, STEPHEN LANE, Jr., a citizen of the United States, residing at New York city, in the county and State of New York, have invented new and useful Improvements in Overflow-Traps for Wash-Basins, Bath-Tubs, Sinks, &c., of which the following is a specification.

My invention consists of an overflow attachment for wash-basins, bath-tubs, &c., of novel, simple, and efficient contrivance, that connects with the basin at the bottom of the same by a trap, so that while it maintains the water at the proper level when the waste-pipe plug stops the waste-pipe the basin will empty all the same when the plug is withdrawn, but the overflow will be sealed with water remaining in the trap, which prevents the escape of foul odors, so common from the deposits bodying in the overflow-passage, all as hereinafter fully described, reference being made to the accompanying drawings, in which—

Figure 1 represents a sectional elevation of a wash-basin having my improved overflow-trap. Fig. 2 is a detail in plan view.

Instead of attaching the upper end of the waste-pipe *a* directly to the basin, I form on or attach to said pipe *a* a cup, *b*, adapted to be attached to the bottom of the basin *c* in any approved way, so as to make a water-tight joint, *d*, with lead or packing, and through the center of this cup I make an extension, *e*, of the waste-pipe up through the bottom of the basin for the escape of the water, and for receiving the plug *f*, for retaining the water in the basin. In the bottom of the basin *c*, and surrounding the waste-pipe extension *e*, I make a series of holes, *g*, communicating with cup *b*, and into one side of said cup I connect one end of an overflow-pipe, *h*, rising as high as it is desired to maintain the water in the basin, and returning by the bend *i* to the waste-pipe *a*, with which it connects by its other end, below the trap *j*, for discharging therein.

When the waste-pipe is stopped by the plug *f*, the pipe *h* allows free escape of the water into the waste-pipe after the proper level has been reached in the basin, and when the plug is removed the escape of foul odors from the overflow is trapped by the water remaining in the cup *b*, as will be clearly seen.

The overflow *h* may connect with the waste-pipe above or below the trap *j*, as preferred, and the vent-pipe sometimes used to conduct the gases from the waste-pipe up through the top of the house may connect either with the waste-pipe *a* or the overflow *h*, as preferred.

For a simple method of connecting the waste-pipe *a* and the cup *b* to the basin I utilize the extension *e* for a screw to bind them together, by constructing it with a head, *k*, at the upper end and fitting the lower portion to screw into the upper end of pipe *a*, or into a nipple, *l*, of the bottom of the cup in case pipe *a* connects to said cup by a nipple, as I have represented it in this case.

The basin is properly recessed in the bottom for the head *k* to set in flush with the surface of the basin, and the passages *g*, connecting the overflow-trap and the basin, are made in the head, which is made sufficiently large for the purpose. The holes also serve for the application of a spanner for turning the screw.

I am aware that it is not new, broadly, to trap the gas in the overflow-passages, as devices for that purpose are represented in the English Patent No. 2,787 of 1855, and the United States Patents to Craigie, December 7, 1869, No. 97,482, and Jackson, August 22, 1882, No. 263,180; and

What I claim, and desire to secure by Letters Patent, is—

The improved overflow-trap consisting of the combined basin having a series of holes through it surrounding the waste-pipe connection, the cup *b*, attached to the upper end of the waste-pipe *a*, and adapted to be attached to the bottom of the basin and to receive the water through the holes aforesaid, the overflow-pipe *h*, attached to the cup and to the waste-pipe, and the headed and screw-threaded extension-joint *e* of the waste-pipe, passing through and connecting the cup and the basin, and forming a separate waste-passage through the cup, substantially as described.

In witness whereof I have hereunto signed my name in the presence of two subscribing witnesses.

STEPHEN LANE, JR.

Witnesses:

W. J. MORGAN,
S. H. MORGAN.