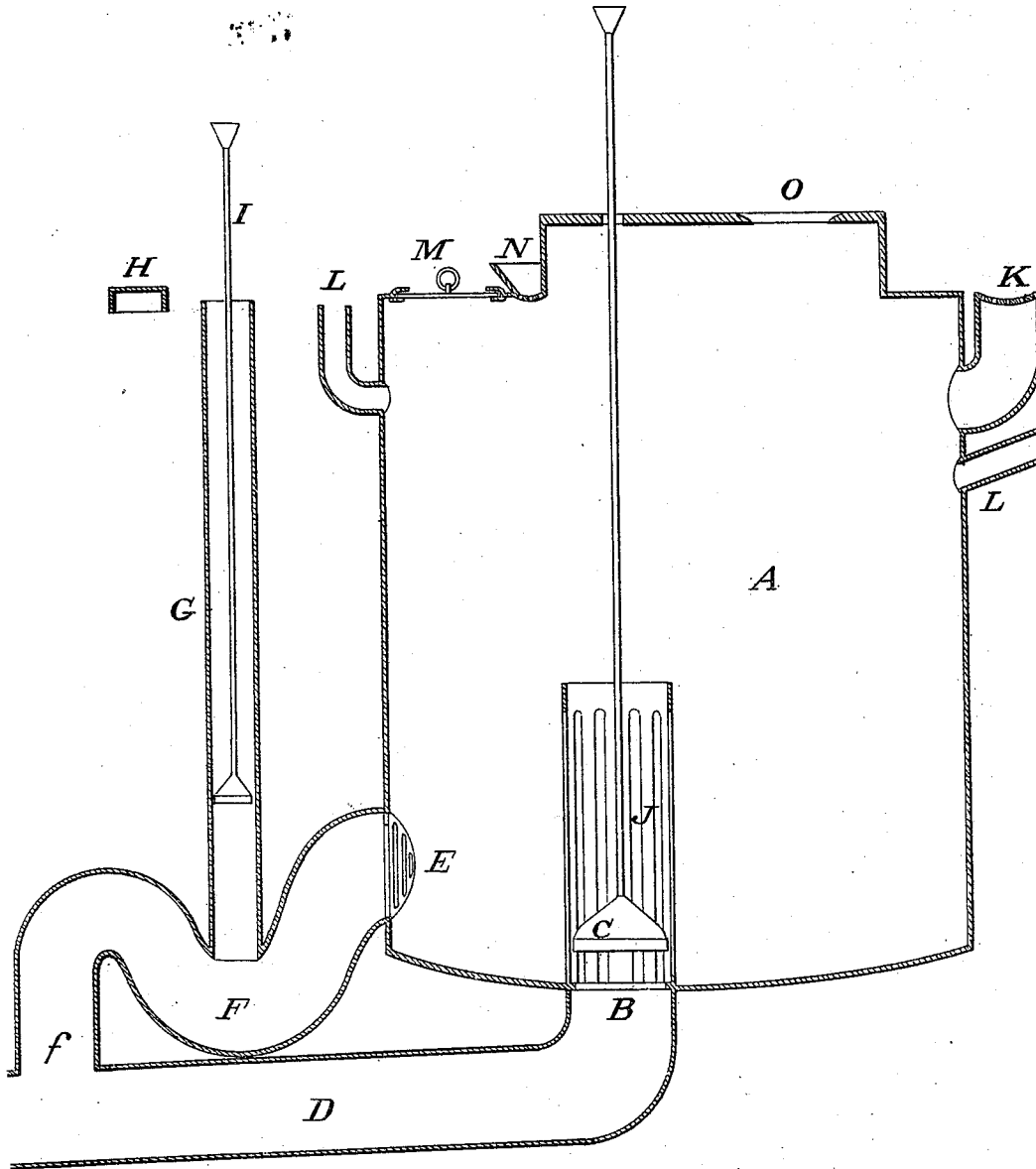


H. FRANK.
CATCH-BASIN.

No. 181,931.

Patented Sept. 5, 1876.



Attest.

Harry E. Knight
Hubert Knight

H. Frank
By Knight Bros. Atty.

UNITED STATES PATENT OFFICE.

HENRY FRANK, OF CINCINNATI, OHIO.

IMPROVEMENT IN CATCH-BASINS.

Specification forming part of Letters Patent No. **181,931**, dated September 5, 1876; application filed July 27, 1876.

To all whom it may concern:

Be it known that I, HENRY FRANK, of Cincinnati, Hamilton county, Ohio, have invented a new and useful Improvement in Catch-Basins, of which the following is a specification:

I have selected to illustrate my improvements a catch-basin adapted for use in conjunction with a water-closet, provisions being also shown for the discharge into it of the various household and gutter pipes.

My invention chiefly relates to a peculiar arrangement of water-traps and main discharge-pipes, and the combination therewith of means of clearing the same of sediment.

The accompanying drawing is a vertical section of a catch-basin proper, and its appurtenances embodying my improvements.

A represents the basin proper. B represents an opening in the basin-floor, by which, whenever the plunger C is lifted, the contents escape into the discharge-pipe D. J is a cage or grated stand-pipe to guide the plunger. Grated opening E in the basin-wall, or near its bottom, communicates with an inverted siphon or stink-trap, F, which discharges into the pipe D at *f*. A tube, G, which rises from the elbow of siphon F, is ordinarily closed by cap H, but is capable of receiving a plunger, I, by means of which any sediment that may collect in the lowest part of the siphon may be removed. K shows a common gutter

sink or grating. L are house-pipes; M, man-hole; N, urinal; O, seat.

It is manifest that the catch-basin may, at any moment, be completely emptied by elevation of the plunger C, whose closure at all other times prevents the ascent of any mephitic gases.

Should the basin, after night or during a storm, for example, become flooded, its contents escape automatically by the trap F.

The above members may be of any suitable materials. I use, however, and recommend, for the basin proper, brick-work lined with hydraulic cement; for the top portions, oak or other suitable wood; and for the various pipes, spouts, and gratings, galvanized iron.

I claim as new and of my invention—

1. The main discharge-pipe D and inverted siphon F, in the described combination with a catch-basin, A, stand-pipes J and G, and plungers C and I, for the purposes set forth.

2. The pipe G, extending upward from the middle of the inverted siphon F, and provided with suitable plunger I, for the purpose explained.

In testimony of which invention I hereunto set my hand.

HENRY FRANK.

Attest:

GEO. H. KNIGHT,
HARRY E. KNIGHT.