

*J. J. Lyon,*

*Catch Basin for Sewers.*

*No. 96019.*

*Patented Oct. 19, 1869.*

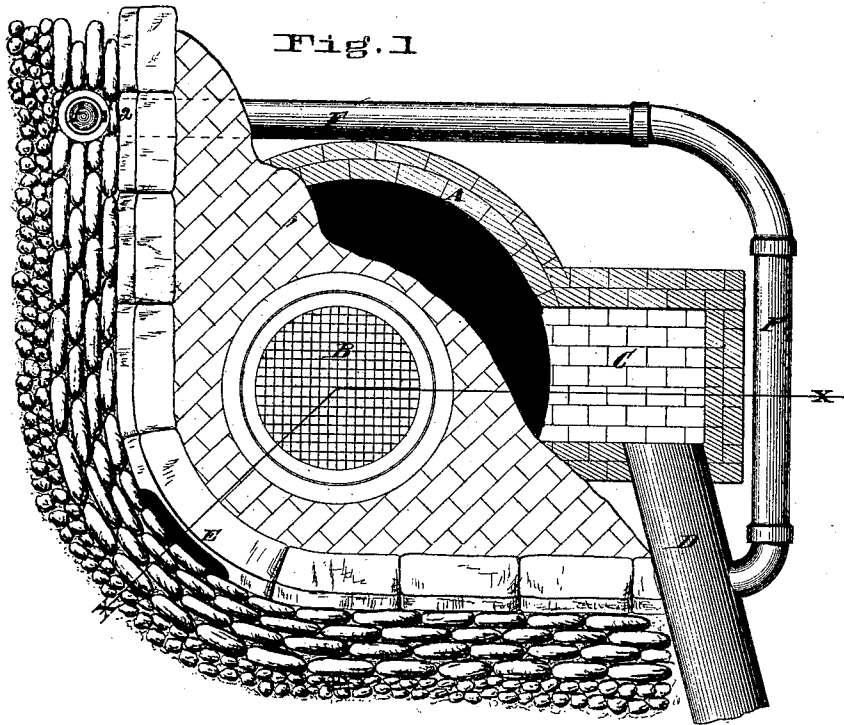
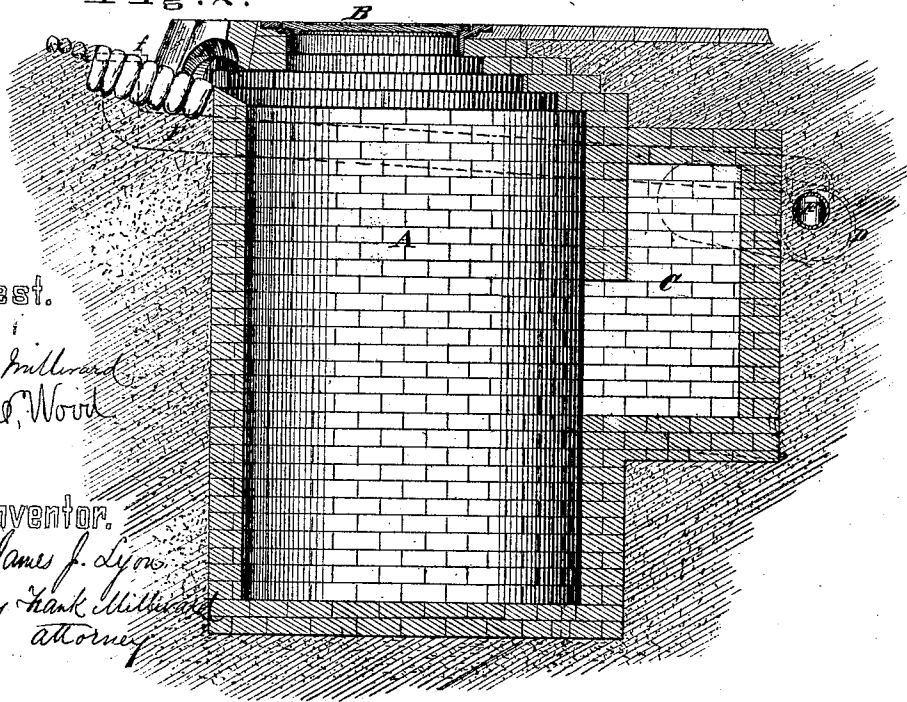


Fig. 2.



Attest.

*Henry Miller and  
C. C. Wood*

Inventor.

*James J. Lyon  
By Frank Miller and  
Attorney*

# United States Patent Office.

JAMES J. LYON, OF CINCINNATI, OHIO.

Letters Patent No. 96,019, dated October 19, 1869.

## IMPROVED CATCH-BASIN FOR SEWERS.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, JAMES J. LYON, of Cincinnati, Hamilton county, State of Ohio, have invented a certain new and useful Improvement in Catch-Basins for Sewers; and I do hereby declare the following to be a sufficiently full, clear, and exact description thereof, to enable one skilled in the art to which my invention appertains, to make and use it, reference being had to the accompanying drawings, making part of this specification.

My invention consists in the provision and attachment of a discharge or drain-pipe to the street-gutter at a short distance from the mouth of the catch-basin, which pipe communicates with the discharge of the catch-basin trap, for the purpose of forming a direct communication between the gutter and sewer during the time the catch-basin is being cleaned; and no water permitted to enter. The provision of the said pipe, the cap of which is opened at this time and closed at all others, thus preventing the necessity of damming the gutters or otherwise stopping or diverting the current before the basin can be cleaned.

In the accompanying drawings—

Figure 1 is a plan, partly in section, of a street-corner "catch-basin" and connections, embodying my invention.

Figure 2 is a vertical section of the same through line X X, fig. 1.

A is an ordinary catch-basin, of which B is the cap of the opening, through which it is cleaned;

C, the "trap;"

D, the discharge-pipe leading to the main sewer; and

E, the inlet or mouth of the basin.

When desirable to clean the basin, which is very frequent, it is necessary that no water be permitted

to flow in during the time it is being cleaned. In order to divert the current of water in the gutters during this time, it has always been customary to dam the gutter on each side of the basin, the dams being built of dirt, &c., half way across the street, and serving to direct the current to the opposite side. This has, of course, been found very objectionable, inasmuch as it obstructs street travel, floods the street and sidewalks, and always accumulates filth by stagnation.

To remedy this, I provide and attach a drain-pipe, F, which connects with the gutter near the mouth of the basin, in the manner shown at *a*, and communicates with the discharge from the catch-basin, the connection being made (in order to avoid unnecessary expense) to the pipe D, as shown, close to the trap C, thus forming a direct communication between the gutter and the sewer.

The pipe F is fitted with a cap or cover, *f*, hinged or otherwise, which is only opened when the basin is being cleaned. To prevent water flowing into the mouth of the basin while cleaning, a board is placed before the opening and plastered up with a handful or two of dirt.

I claim herein as new, and of my invention—

In connection with a sewer "catch-basin," constructed substantially as described, the provision and attachment of the pipe F *f*, arranged and operating as and for the purpose described.

In testimony of which invention, I hereunto set my hand.

JAMES J. LYON.

Witnesses:

WM. B. FOLGER,  
FRANK MILLWARD.