

J. Silsby

Sewer.

N^o 97,447.

Patented Nov. 30, 1869.

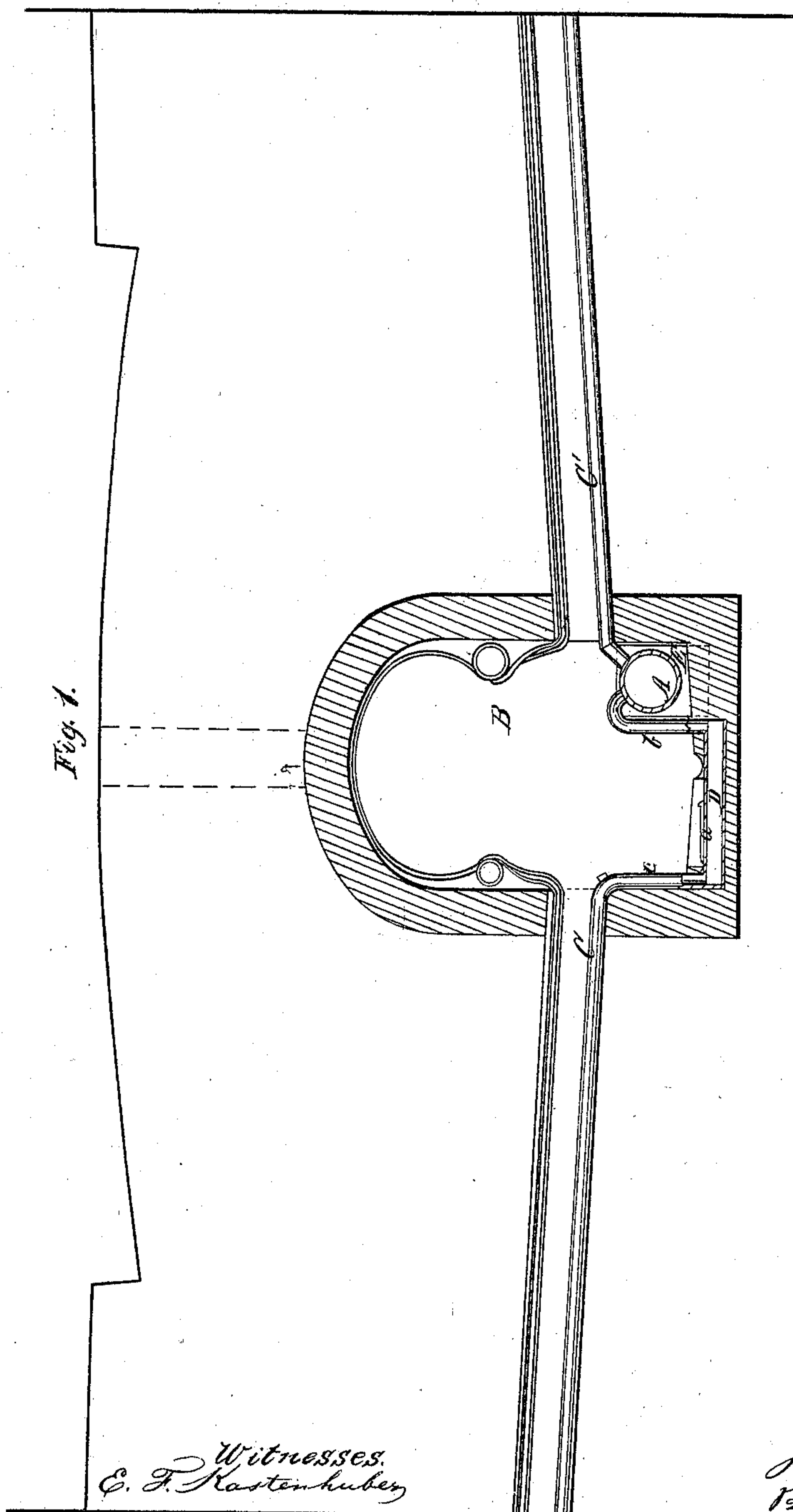


Fig. 3.

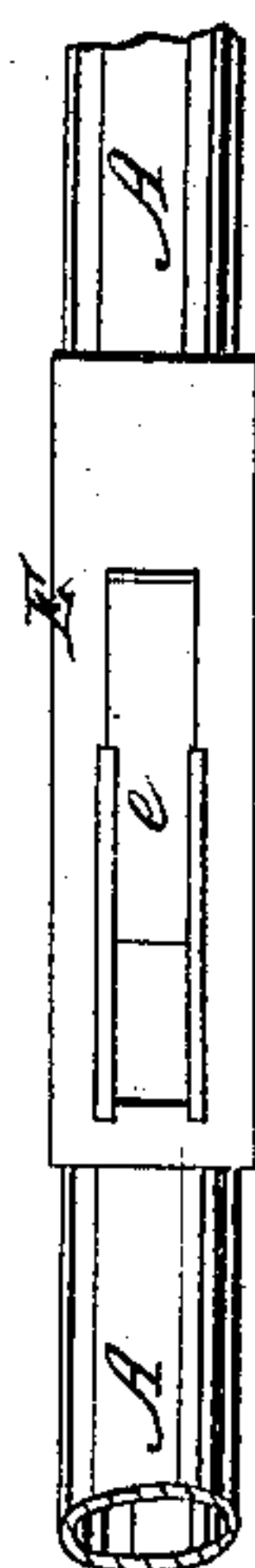


Fig. 4.

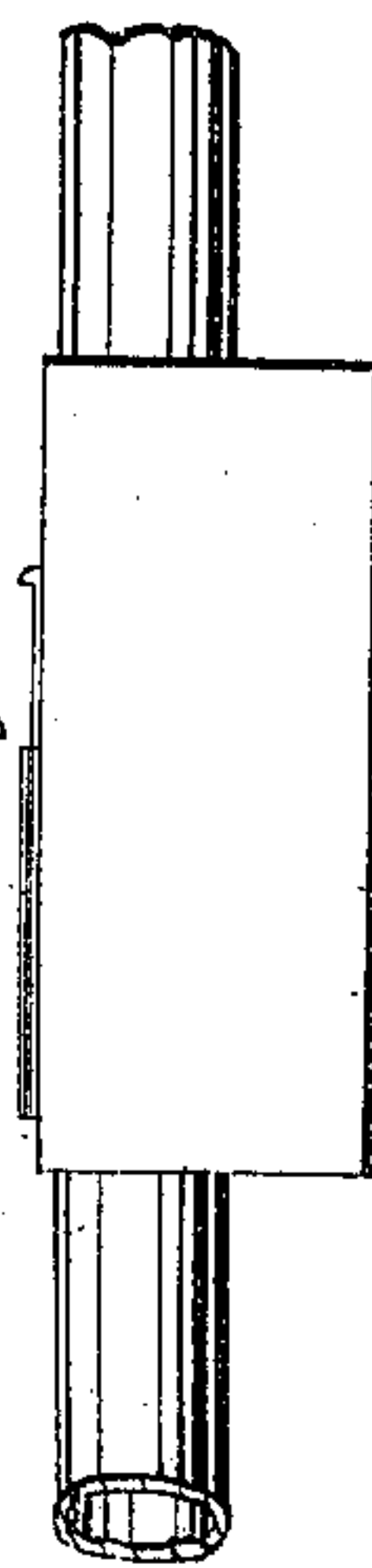
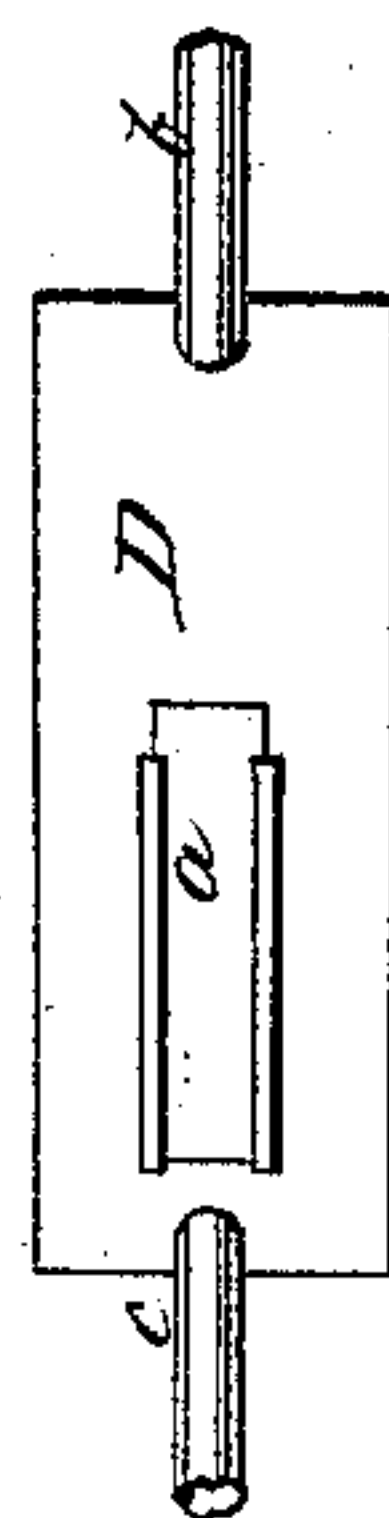


Fig. 2.



Witnesses.
E. F. Kastenhuber

C. Wahlers.

Inventor

J. Silsby
By Paul Anthony Hauff
his Atty

United States Patent Office.

JOHN SILSBY, OF NEW YORK, N. Y.

Letters Patent No. 97,447, dated November 30, 1869.

IMPROVEMENT IN 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, JOHN SILSBY, of the city, county, and State of New York, have invented a new and useful Improvement in Sewers; and I do hereby declare the following to be a full, clear, and exact description thereof, which will enable those skilled in the art to make and use the same, reference being had to the accompanying drawing, forming part of this specification, in which drawing—

Figure 1 represents a transverse section of a sewer, with its connections, constructed according to my invention.

Figure 2 is a detached plan or top view of the mud-box, inserted into the house-connection of the sewer-pipe.

Figure 3 is a detached plan or top view of the mud-box, attached to or inserted into the main sewer-pipe.

Figure 4 is a side elevation of the same.

Similar letters indicate corresponding parts.

The principal object of this improvement is to facilitate the operation of cleaning such sewer-pipes, which are enclosed in a tunnel, through which the workmen engaged in cleaning said pipes can pass.

In the bottom of this tunnel is embedded a mud-box, provided with a lid or cover, and forming an integral part of the house-connection of the sewer-pipe, in such a manner that said house-connection does not obstruct the passage through the tunnel, and, at the same time, ready access can be had to the interior of said mud-box for the purpose of removing the dirt.

Similar mud-boxes are inserted into the main sewer-pipe, at suitable distances apart, and of such a form that they project below the bottom surface of the sewer-pipe, and that the mud, which is mixed with the water passing through said sewer-pipe, and liable to clog the same up at shorter or longer intervals, will settle in the mud-boxes, whence it can be readily removed without interrupting the operation of the sewer-pipe.

In the drawing—

The letter A designates a main sewer-pipe, which is situated in a tunnel, B, built under the middle of the street, as indicated in red outlines in fig. 1 of the drawing.

Said main sewer-pipe is intended to be situated close to one side of the tunnel, and it connects with the houses on the opposite sides of the street, by branch-pipes C C'.

The pipe C', which extends out through that side of the tunnel, close to which the main sewer-pipe is situated, does not obstruct the passage through the

tunnel, but the other branch-pipe C, if run in a direct course from the main sewer-pipe to the house, would seriously interfere with the passage through the tunnel, and with the operation of cleaning out the sewer-pipe, or of making any repairs on the pipes enclosed in said tunnel.

To obviate this difficulty, I sink into the floor of the tunnel a box, D, which is provided with a lid or cover, *a*, and connects at one end by means of a pipe, *b*, with the main sewer-pipe, and at its opposite end by means of a pipe, *c*, with the house-connection or branch-pipe C.

This pipe *c* is intended to run up close to the side of the tunnel, so that it does not materially obstruct the passage through the tunnel, and the cover *a* is so situated that it can be easily reached and opened from the interior of the tunnel, and that the mud, which is liable to accumulate in the box D, can be readily removed.

The mud, which is liable to accumulate in the main sewer-pipe, must also be removed from time to time, and, with the ordinary construction of the sewer-pipes, this operation can only be performed with great difficulty.

In order to facilitate this operation, I insert into the main sewer-pipe, at suitable distances apart, a series of mud-boxes, E, a detached plan of one of which is shown in fig. 3.

These mud-boxes project below the bottom surface of the sewer-pipe, (see fig. 1,) so that the mud settles down in the same, without obstructing the passage of the water through the pipe, and each mud-box is provided with a lid or cover, *e*, which can be easily opened, and gives free access to the interior of the mud-box, so as to enable the workman to remove the mud with great ease, and without disturbing the ordinary function of the sewer-pipe.

Having thus described my invention,

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

1. The mud-box D, sunk into the bottom of the tunnel B, and connecting at one end with the main sewer-pipe A, and at the opposite end with the house-connection C, substantially as shown and described.

2. The mud-box E, in combination with the main sewer-pipe A, substantially as set forth.

JNO. SILSBY.

Witnesses:

W. HAUFF,

C. WAHLERS.