

(No Model.)

E. Z. COLLINGS & C. F. PIKE.

SEWER INLET.

No. 274,465.

Patented Mar. 27, 1883.

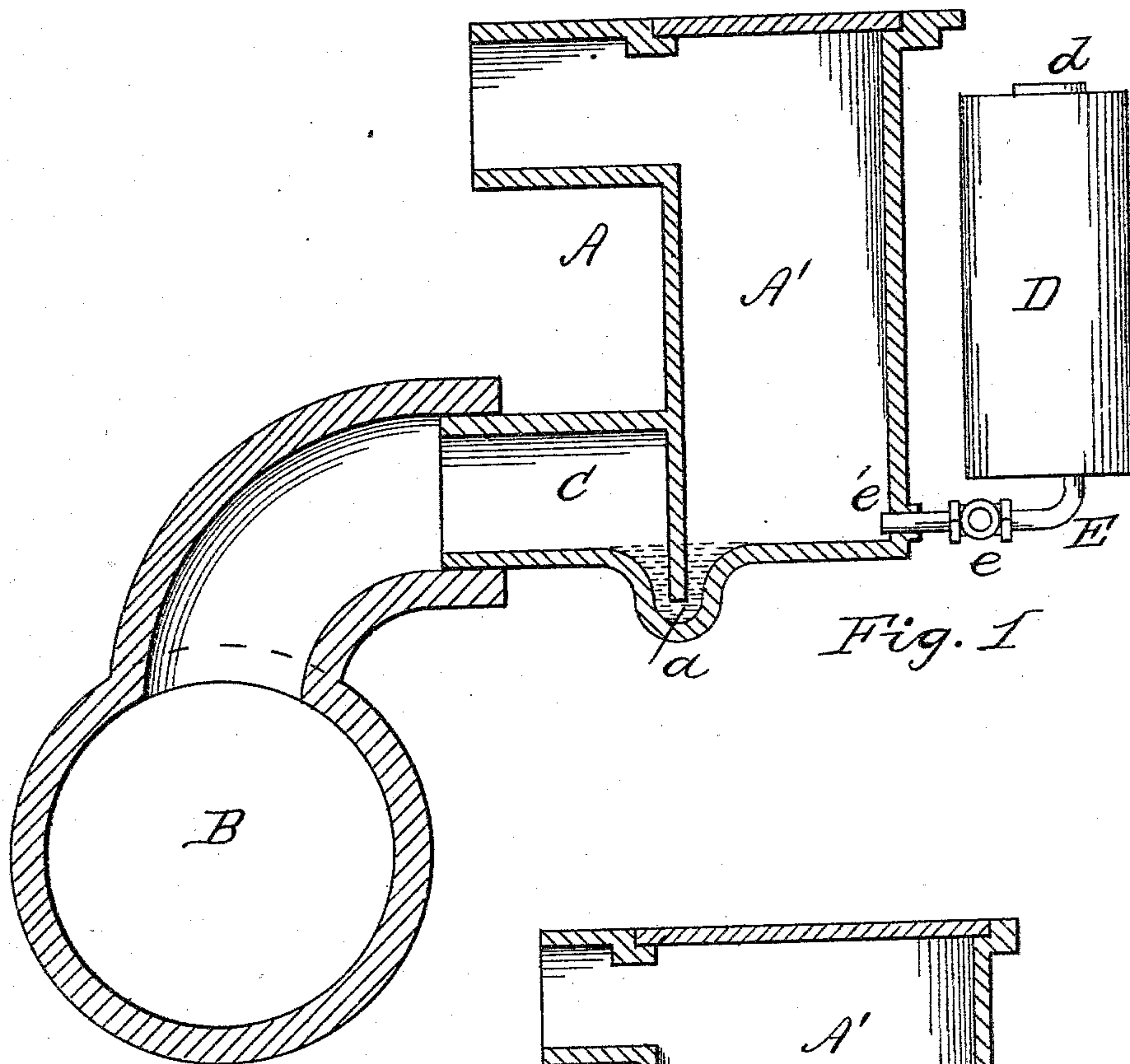


Fig. 1

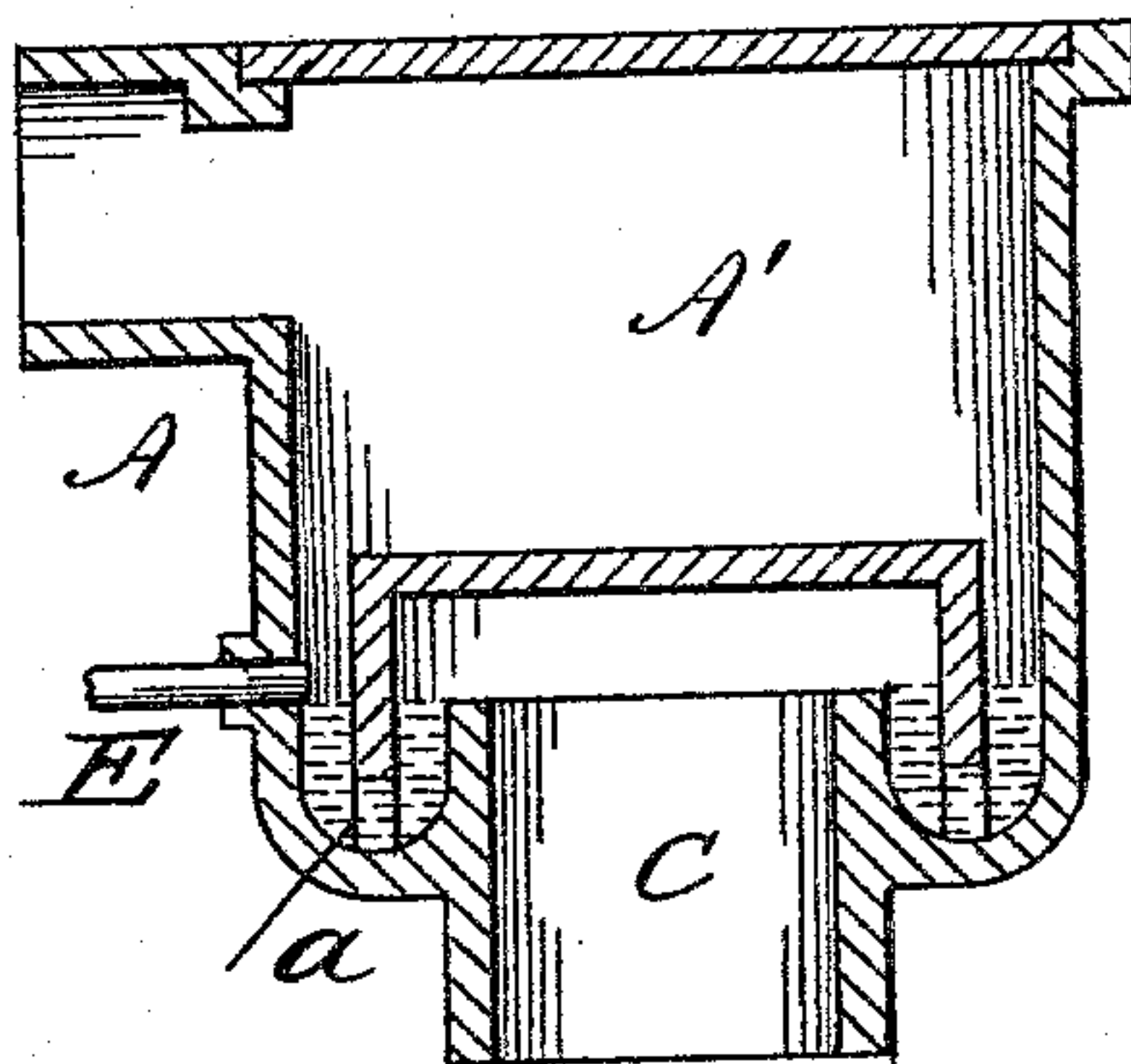


Fig. 2

Witnesses:

Chas F. Van Stavorren  
Edwin Paramore

Inventors,  
Edward Z. Collings  
Charles F. Pike

By S. F. Van Stavorren  
attorney.



# UNITED STATES PATENT OFFICE.

EDWARD Z. COLLINGS, OF CAMDEN, NEW JERSEY, AND CHARLES F. PIKE,  
OF PHILADELPHIA, PENNSYLVANIA.

## SEWER-INLET.

SPECIFICATION forming part of Letters Patent No. 274,465, dated March 27, 1883.

Application filed August 10, 1882. (No model.)

*To all whom it may concern:*

Be it known that we, EDWARD Z. COLLINGS, of Camden, in the county of Camden and State of New Jersey, and CHARLES F. PIKE, residing at Philadelphia, in the county of Philadelphia and State of Pennsylvania, citizens of the United States, have invented certain new and useful Improvements in Sewer-Inlets, of which the following is a specification, reference being had therein to the accompanying drawings, wherein—

Figure 1 is a transverse vertical section of a sewer and inlet with disinfecting appliances, the latter being represented in elevation. Fig. 2 is a like view of modified form of inlet.

Our invention has relation to sewer-inlets, and has for its object the provision of means for disinfecting the inlet and sewer, and to prevent the escape of sewer or other gases therefrom.

Our invention accordingly consists of a sewer and inlet, a reservoir or tank in which is placed a disinfectant liquid, and a pipe or connection provided with a cock or valve between said reservoir and inlet, whereby a flow of liquid is caused to pass to the inlet and to the sewer to disinfect the same, and provide a seal of like material for the inlet-trap to prevent the passage of sewer-gas therethrough.

Referring to the accompanying drawings, A represents an inlet, and B the sewer, of any suitable or desired form, having a connecting pipe or conduit, C, and a trap, *a*. The latter may be a partition-trap, as shown in Fig. 1; or it may be constructed as shown in Fig. 2, or in any other suitable manner.

D represents a reservoir located beneath the surface of the pavement, or in a building adjoining the inlet, and is provided with a pipe, E, having a valve or cock, *e*. Said pipe is connected to the inlet at *e'*, or at any other suitable or desired point. Through the stopple *d* of tank D the disinfectant is passed to fill the same when said tank is so located that access is readily obtained thereto. When, however, it is buried beneath the sidewalk, a pipe is used in lieu of the stopple, said pipe extending up to the surface of the sidewalk, and is provided with a suitable cap or cover. The cock *e* is opened to any desired extent to regulate the volume of the flow of disinfectant

from reservoir D to inlet A. As such liquid enters and passes through inlet-chamber A', trap *a*, and the sewer B, said parts are disinfected and rendered pure and wholesome. Such liquid also forms a disinfecting-seal for the trap *a*, and sewer-gas or other odors seeking to pass therethrough are at once absorbed and killed or neutralized by such liquid. The cock *e* may be so regulated that the fluid in reservoir D will continuously flow therefrom in a small stream during the intervals between the successive fillings of the tank D; or it may be so regulated to pass or flush a large volume of disinfectants into the inlet at certain determined intervals. Such flushings may be made at stated times, or whenever it is desirable, or when necessitated by the condition of the sewer and inlet.

If desired, the valve *e* may be dispensed with and the pipe E constructed with a bore of a size just sufficient to permit the desired volume of flow to pass therethrough.

What we claim as our invention is—

1. A sewer-inlet provided with a seal, and means, substantially as shown and described, for passing a stream or flow of disinfecting-fluid to said parts, substantially as set forth.

2. A sewer-inlet provided with a trap, in combination with a tank for holding a disinfectant, and a pipe or connection between said inlet and tank, substantially as shown and described.

3. The combination of inlet A, provided with a trap, *a*, sewer B, reservoir D, and pipe-connection E between said reservoir and inlet, substantially as shown and described.

4. The combination of inlet A, having trap *a*, the reservoir D, adapted to form a disinfectant-holding chamber, and a pipe, E, having a valve, *e*, for regulating the flow of disinfecting-liquid to the inlet, substantially as set forth.

5. The combination of inlet A, having trap *a*, and valved pipe E, substantially as set forth.

In testimony whereof we affix our signatures in presence of two witnesses.

EDWARD Z. COLLINGS.  
CHARLES F. PIKE.

Witnesses:

S. J. VAN STAVOREN,  
CHAS. F. VAN HORN.