

(No Model.)

2 Sheets—Sheet 1.

P. WOLFF.
Closure for Sewer Pits.

No. 233,454.

Patented Oct. 19, 1880.

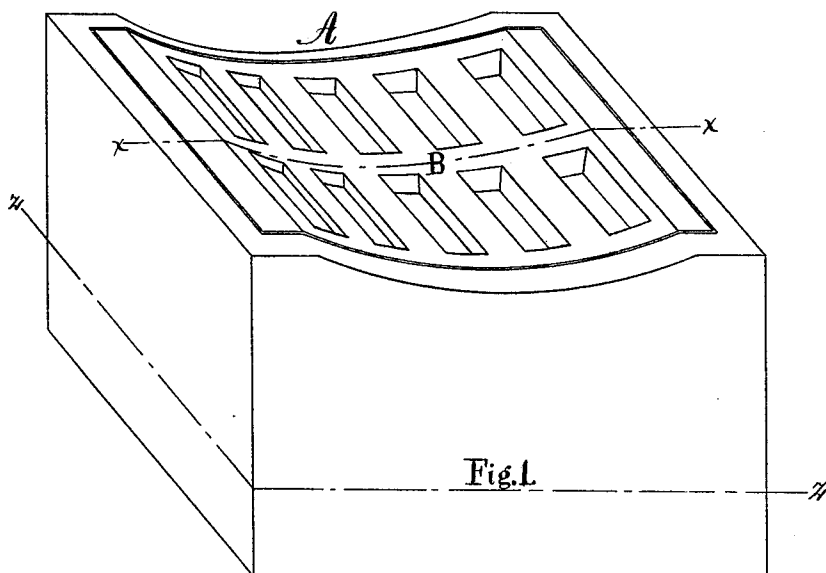


Fig.6.

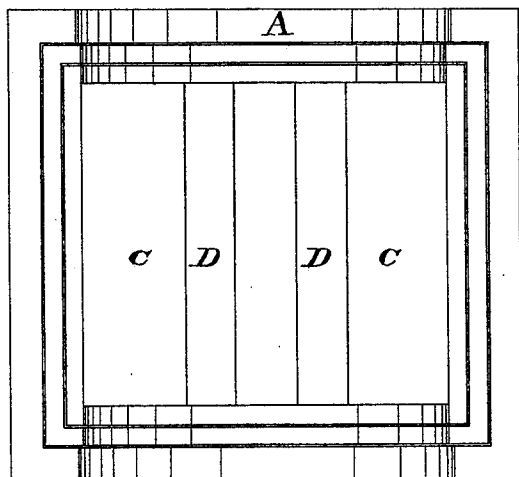
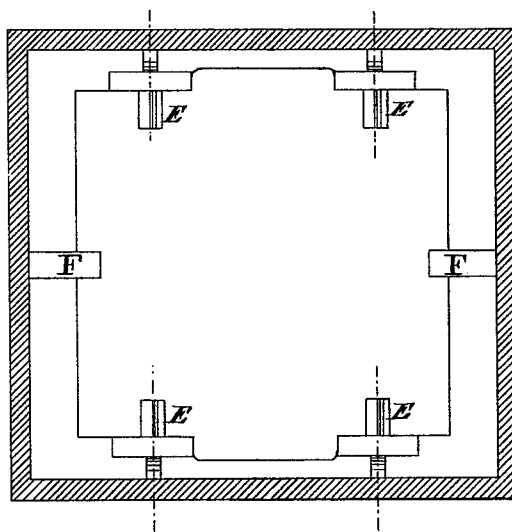


Fig.7.



Witnesses:

A. P. Grant,
W. F. Archer

Inventor:

Inventor:
Peter Hoff,
by John A. Diedersheim
attys.

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2 Sheets—Sheet 2.

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Fig.2.

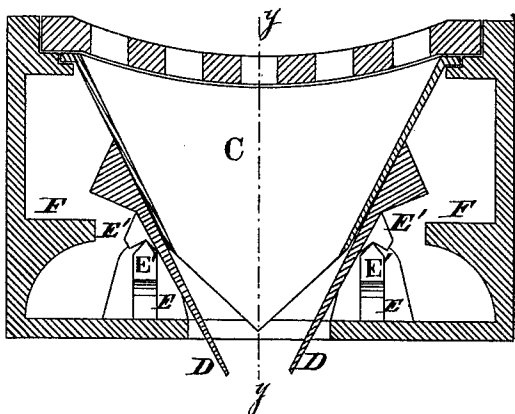


Fig.3.

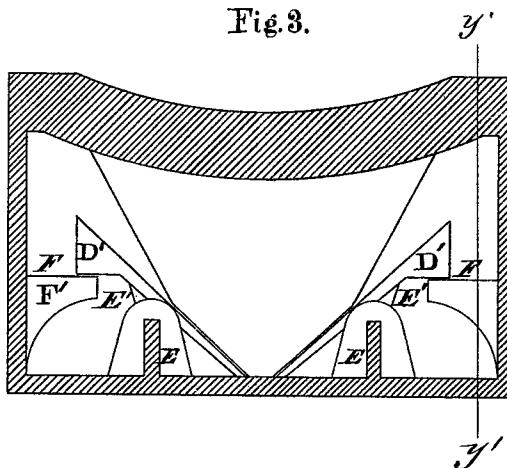


Fig.4.

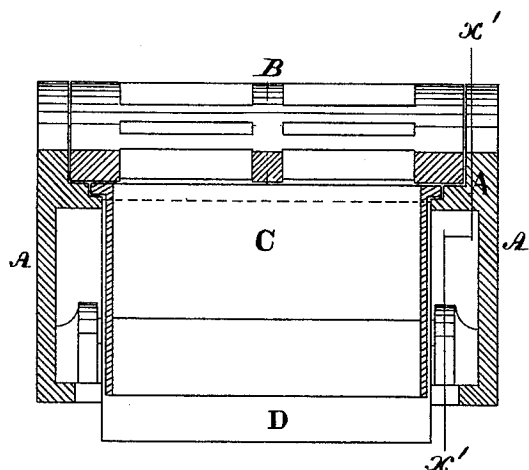
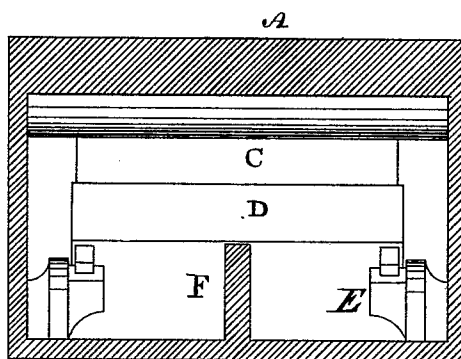


Fig.5



Witnesses:

W. P. Grant
H. F. Fischer

Inventor:
Peter Wolff,
by John A. Biederhagen
att'y.

UNITED STATES PATENT OFFICE.

PETER WOLFF, OF AACHEN, PRUSSIA, GERMANY.

CLOSURE FOR SEWER-PITS.

SPECIFICATION forming part of Letters Patent No. 233,454, dated October 19, 1880.

Application filed July 8, 1880. (No model.) Patented in Belgium August 16, 1879.

To all whom it may concern:

Be it known that I, PETER WOLFF, a subject of Prussia, Empire of Germany, residing at Aachen, or Aix la Chapelle, in the Kingdom of Prussia, have invented a new and useful Improvement in Sewer-Traps, which improvement is fully set forth in the following specification and accompanying drawings, in which—

Figure 1 is a perspective view of the sewer-trap embodying my invention. Fig. 2 is a longitudinal vertical section in line $x x$, Fig. 1. Fig. 3 is a vertical section in line $x' x'$, Fig. 4. Fig. 4 is a transverse vertical section in line $y y$, Fig. 2. Fig. 5 is a transverse vertical section in line $y' y'$, Fig. 3. Fig. 6 is a top view thereof, the grating being removed. Fig. 7 is a horizontal section in line $z z$, Fig. 1.

Similar letters of reference indicate corresponding parts in the several figures.

My invention consists of a sewer-trap the valves whereof operate automatically, and are easily removed and applied, and have their bearings inaccessible to the matters entering the trap, so that rust and clogging of said bearings are prevented. The valves are likewise properly limited in their opening and closing motions.

Referring to the drawings, A represents a box, which is properly supported adjacent to the sewer, and communicates therewith, and is adapted to receive matters directed to the sewer, the same entering the top of the box through the grating B thereof, and guided through the loosely-suspended hopper C of the box to the bottom thereof, where they are brought in contact with valves D D, which consist of flat plates adapted to close against the tapering side edge of the hopper C, as seen in Fig. 3, and having on their backs grooved bearings E', which rest loosely on studs or pointed standards E, rising from the bottom of the box, the valves being mounted eccentric or weighted—say at their upper ends, D'—so that when they are closed they are in their normal positions. Projecting horizontally from opposite inner faces of the sides of the box are studs F, against which the upper ends

of the valves come in contact when the valves are closed, (see Fig. 3,) thus limiting the closing movements of the valves and preventing any lifting action of the valves on the hopper.

It will be seen that when dirt and other matters enter the box they overcome the balance of the valves, which then open and allow the matters to drop into the sewer, said valves immediately thereafter closing and preventing the return of sewer-gas and other odors.

It will also be seen that as the bearings of the valves are on the backs thereof, they are protected from rust and prevented from clogging by the matters entering the sewer, owing to their inaccessible position. Furthermore, their bearings require no lubrication, and, being loose, may be readily removed and applied. Backing of sewage more tightly closes the valves, and prevents return thereof through the box.

When the valves open to full extent they are limited by the tapering sides of the hopper, against which they abut. (See Fig. 2.)

The grate, hopper, and valves may be easily removed, and the box is then in condition to be effectively washed, disinfected, &c.

The entire device may be made of cast-iron. Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The box A, provided with the hopper C, in combination with the valves D, provided with the bearings E' on their backs, substantially as and for the purpose set forth.

2. The box A, with standards E and studs F, in combination with the automatic-acting valves D D, provided with bearings E', substantially as and for the purpose set forth.

3. The removable valves D and removable hopper C, in combination with the box A, provided with studs F and standards E, substantially as and for the purpose set forth.

PETER WOLFF.

Witnesses:

H. J. MAILLARD,
J. LEKEU.