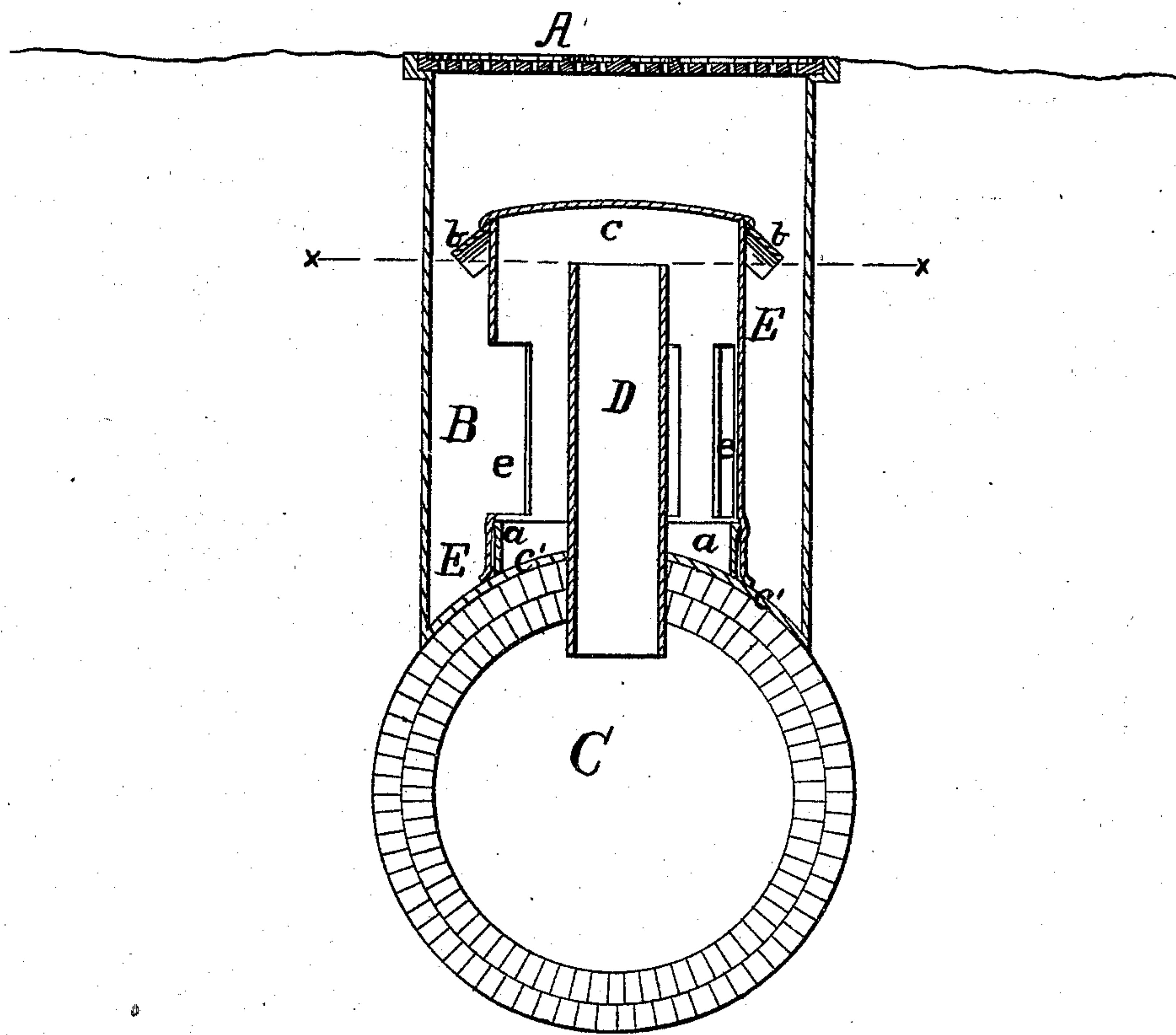


T. KNIGHT & P. L. GUILLEMIN.
Stench-Traps.

No. 150,659.

Patented May 5, 1874.



WITNESSES

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UNITED STATES PATENT OFFICE.

THOMAS KNIGHT AND PETER L. GUILLEMIN, OF CHARLESTON, S. C.

IMPROVEMENT IN STENCH-TRAPS.

Specification forming part of Letters Patent No. **150,659**, dated May 5, 1874; application filed September 20, 1873.

To all whom it may concern:

Be it known that we, THOMAS KNIGHT and PETER L. GUILLEMIN, of Charleston, in the county of Charleston and State of South Carolina, have invented a new and valuable Improvement in Stench-Traps; and we do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of a vertical section of our stench-trap.

This invention relates to an improvement in stench-traps for preventing foul gases escaping from sinks and sewers. It consists in a casing having a removable sewer-plate and a laterally-perforated tube inclosing a vertical overflow-pipe, which latter communicates with the sewer-pipe, in combination with a bottom to said casing, which is concave, and adapted to lie snugly, and to afford a support upon the masonry constituting the said sewer-pipe, and to serve, in conjunction with the overflow-pipe, to establish a firm connection of the trap therewith, as will be hereinafter more fully described.

The following is a description of our improvement:

In the annexed drawings, A represents a grating, which is embedded into the pavement of the gutter, and which is removable. B is a casing constituting the man-hole, which leads into the sewer pipe or arch C by means of a vertical pipe, D, that rises from this pipe or arch any suitable height, and is surrounded at its base by means of a stationary collar, *a*. E represents a valve-box, which is closed at the top and secured in place around the collar

a, so that it can be removed at pleasure from the man-hole, for which purpose it is provided with handles *b b*. Below the dotted line *x x*, which indicates the water-line, openings *e e* are made through the vertical wall of the valve-box E, for the purpose of allowing fluids which enter the man-hole to flow off through the pipe D. When the man-hole or well is filled to the water-level *x x* there will be a space, *c*, between it and the closed top of the valve-box E, in which the foul gases will be trapped and prevented from escaping into the street, and all fluids which rise above said level will pass off through the overflow-pipe, while the more solid matters will fall to the bottom of the man-hole. When the accumulation of solid matter in the man-hole becomes too great the valve-box E is taken out and such matter removed. The casing A is constructed with a concave bottom, *c'*, adapted to fit over and lie snugly upon the masonry of the sewer-pipe, and to serve, in connection with the overflow-pipe D, to form a firm connection of the trap, and also to strengthen the same.

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

The casing A, having the concave bottom *c'* attached thereto, the removable sewer-plate A, laterally-perforated tube E, inclosing the vertical overflow-pipe D, which latter communicates with the sewer-pipe, substantially as and for the purpose set forth.

In testimony that we claim the above we have hereunto subscribed our names in the presence of two witnesses.

THOMAS KNIGHT.

PETER LOUIS GUILLEMIN.

Witnesses:

A. P. GRAY,

D. RAVENEL, Jr.