J. NAUGHTEN.

Sewer-Trap.

No. 164,024. Patented June 1, 1875.

FIG. 1.

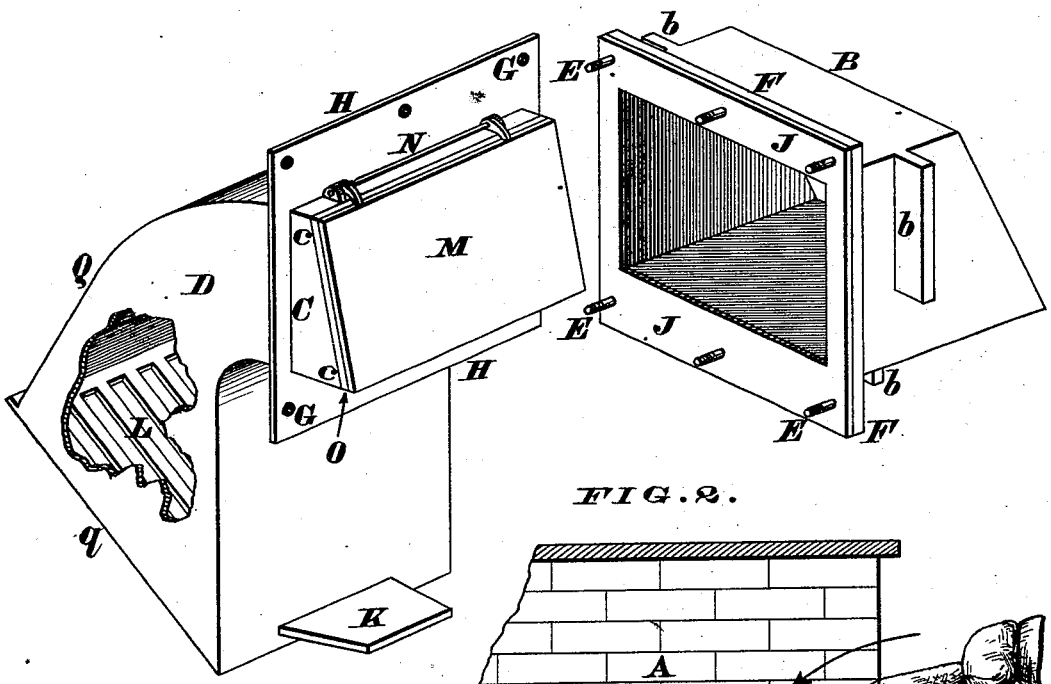


FIG. 2.

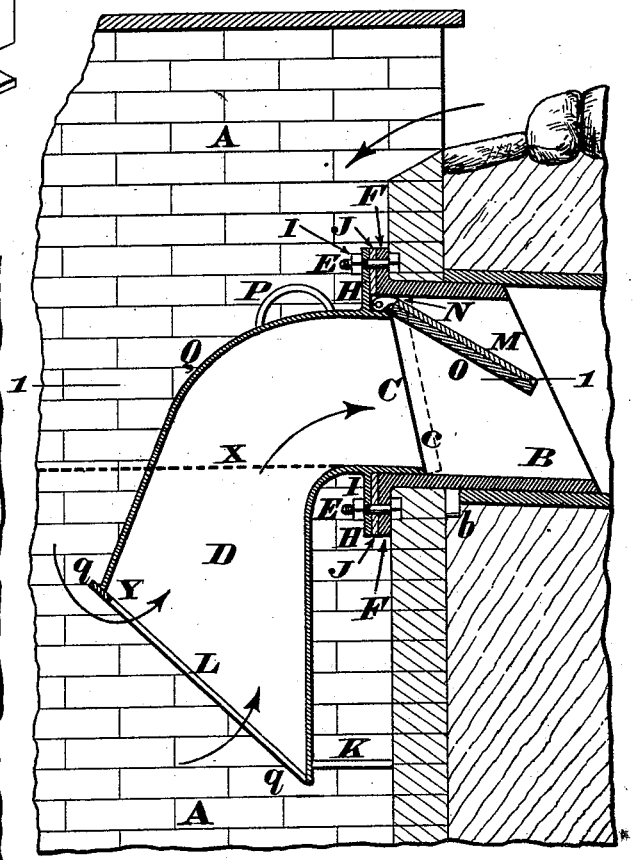
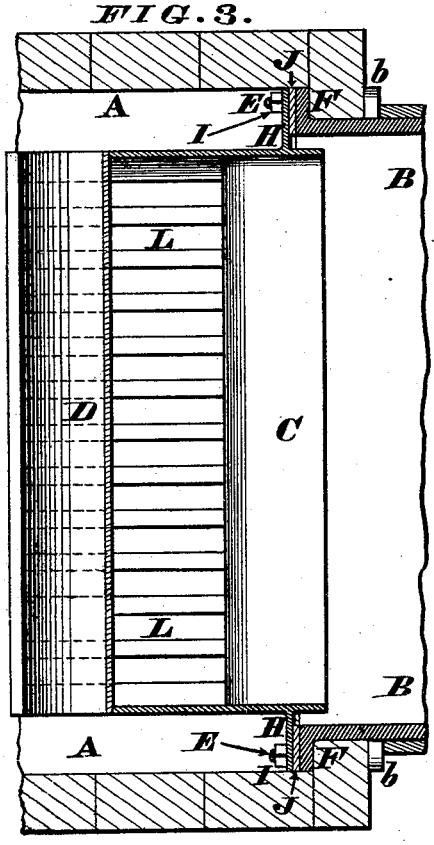


FIG. 3.



Attest.
Chas. N. Layman.
Henry Sanders

James Naughten
By Knight Bros
Att'ys.

UNITED STATES PATENT OFFICE.

JAMES NAUGHTEN, OF CINCINNATI, OHIO.

IMPROVEMENT IN SEWER-TRAPS.

Specification forming part of Letters Patent No. **164,024**, dated June 1, 1875; application filed April 28, 1875.

To all whom it may concern:

Be it known that I, JAMES NAUGHTEN, of Cincinnati, Hamilton county, Ohio, have invented a new and useful Sewer-Trap, of which the following is a specification:

My improvement relates to a combined water and stench trap and strainer for the outlets of sewer catch-basins, as hereinafter described.

In the accompanying drawing, Figure 1 is a perspective view of my trap and its receiving-thimble, separated from each other and from the catch-basin, a portion of the trap-wall being broken away to expose the strainer. Fig. 2 is a vertical section in the line of discharge. Fig. 3 is a section at the line 1 1.

A represents a sewer catch-basin; B, a thimble, built into a wall of said basin, to receive the neck C of tube or body D of my trap. Bolts E, which project from flange F of thimble B, enter corresponding orifices G in flange H of body D, and receive nuts I, which serve to hold the trap firmly in place in the thimble. A gasket, J, between the said flanges prevents any leakage. This gasket may be of uniform thickness, as shown, or may be of wedge form, tapering either upward or downward, for a purpose to be presently explained. A lug, K, that projects horizontally from the body and rests against one wall of the basin, serves to hold the trap in position. From the flange H the inlet or receiving end of the trap-body curves downward, in the represented flaring form Q, and terminates with an oblique entrance, *q*, guarded by a grating or strainer, L. The neck or discharging portion of the trap-body terminates obliquely, *c*, to afford seat for a flap-valve, M, hinged, N, by its upper edge, to the trap-body, or to the neck C or flange H. An india-rubber or other pad, O, insures the air and gas tight fitting of the valve M upon its seat.

The trap-body may have an eye or loop, P, to enable it to be easily lifted into and out of the basin.

All parts of the described trap and thimble may be of either cast or wrought iron, and may have a surface projection of zinc, tin, enamel, or paint.

The pad and gasket are of india-rubber or other suitable material.

The weight and area of the valve M, the obliquity of its seat, and the height of the discharge-level X above the top Y of the grated inlet L, should be severally adapted to the requirements of the location and sewage; but it may be remarked that, without other changes, the discharge of sewage may be facilitated by the use of a wedge-formed gasket, whose thick edge is presented downward, or retarded by a reverse arrangement of such gasket. To either modification it will be necessary to so adapt the basin-wall as to afford the proper support to the lug K.

It will be seen that when the basin is flushed with sewage matter the portion of it which occupies the tube between the levels X and Y serves as a water-trap, which effectually seals the sewer and prevents the escape of fetid exhalations, while the down-turned grating L prevents the passage of bodies large enough to clog the valve H or obstruct the sewer; and that on the other hand, when the sewage sinks below Y, the closure of the valve M also precludes escape of such exhalations.

It is apparent that my trap proper is complete in itself, and that it is capable of ready application to or removal from the basin, without any disturbance of the latter, through the customary man-hole, all the members of the trap being included in the same body, and removable with it.

I claim as new and of my invention—

The trunk, tube, or body D, having the flanged discharging-neck C, terminating with oblique seat *c* for flap-valve M, and having the down-turned flaring inlet Q, whose oblique inlet *q* is protected by strainer L, as and for the purpose set forth.

In testimony of which invention I hereunto set my hand.

JAS. NAUGHTEN.

Attest—

GEO. H. KNIGHT,
JAMES H. LAYMAN.