

A. H. LOWELL.
Sewer-Trap.

No. 196,368.

Patented Oct. 23, 1877.

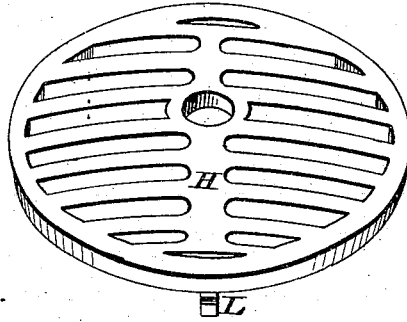


Fig. 1.

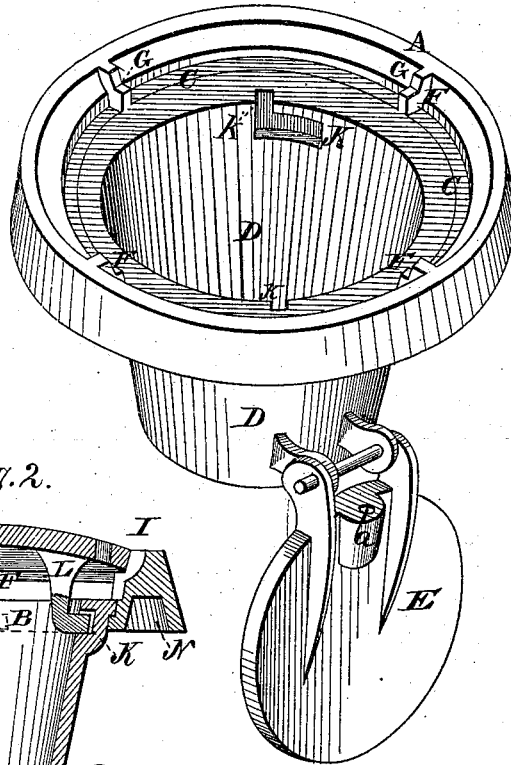
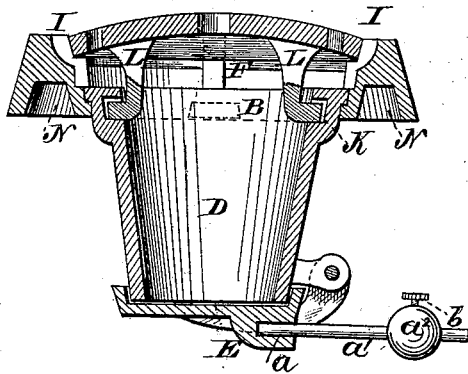


Fig. 2.



WITNESSES
Frank L. Curand
W. H. Norris

A. Henry Lowell
INVENTOR
By James L. Norris.
ATTORNEY

UNITED STATES PATENT OFFICE.

A. HENRY LOWELL, OF MANCHESTER, NEW HAMPSHIRE.

IMPROVEMENT IN SEWER-TRAPS.

Specification forming part of Letters Patent No. **196,368**, dated October 23, 1877; application filed September 14, 1877.

To all whom it may concern:

Be it known that I, A. HENRY LOWELL, of Manchester, in the county of Hillsborough and State of New Hampshire, have invented certain new and useful Improvements in Sewer-Traps, of which the following is a specification:

This invention relates to certain improvements in the construction of traps for sewers, cess-pools, and other like purposes, its object being to provide a simple and efficient means of securing the trap-shell and grating to the annular rim usually employed at the mouth or opening of the sewer or cess-pool; and to this end my invention consists in the combination, with the trap-shell, supported by means of lugs in said annular rim, of a grating supported upon lugs on the upper face of said rim, and provided with hooked hangers, which engage and lock in suitable recess formed in the upper part of the trap-shell, as more fully hereinafter set forth.

In the drawings, Figure 1 represents a perspective view of the annular rim and trap-shell with the grate removed; and Fig. 2, a sectional view of the annular ring, trap-shell, and grate, showing the parts in their proper relative positions.

The letter A represents an annular rim constructed, preferably, of cast-iron, as usual, and adapted to fit upon and be secured to the masonry at the mouth or opening of a sewer or cess-pool. Said rim is provided, on its interior lower edge, with a series of lugs, B, or an annular shoulder, which serves as a support for the annular shoulder C, around the outside of the trap-shell D, at its upper edge. Said trap-shell is in the form of an inverted hollow frustum of a cone, or other convenient shape, and at its lower end is provided with a valve or door, E, or other means for closing the opening therein.

The upper face of the annular rim is provided with a series of lugs, F, which are formed with shoulders G, for the reception of the grate H, said lugs supporting the grate at a slight distance away from the curved or molded face I of the rim, to afford a passage-way for water between said rim and grate, the edges of the rim being extended upward so as to be about flush with the edges of the grating, to prevent the grating from forming an obstruction to vehicles when employed for street-sewers.

The interior of the trap-shell, near its up-

per edge, is provided on opposite sides with recesses K, with slots or openings *k* at one end, extending to the upper edge of said trap-shell. These recesses are for the reception of the lower hooked ends of the hangers L, secured to the lower side of the grating.

In use the annular rim is secured to the masonry at the mouth of the sewer or cess-pool, an annular recess, N, being formed on the lower face of said rim, which sets over the edge of said masonry.

After the rim is properly secured in place the trap-shell is secured in said rim, being supported therein by the lugs or shoulders, which form a seat for the annular shoulder at the upper edge of said trap. The grating is then placed upon the seat formed by the lugs upon the upper face of the rim, in such position that the hooked ends of the hangers L will extend through the slots *k* into the recesses K in the trap-shell, when, by turning the grating in the proper direction, said hooked ends can be fastened in the recesses K, thereby securing the grate in position.

The valve or door E is provided with a socket, *a*, in which is set a stem, *a'*, on which is a weight, *a''*. The weight is held on the stem by a set-screw, *b*, by which means the weight can be adjusted to regulate and control the valve or door.

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

1. In combination with the annular rim, provided with lugs or a shoulder on its interior, the trap-shell provided with a shoulder at its upper edge, adapted to rest upon the lugs or shoulder of the rim and support the trap-shell in place, substantially as set forth.

2. In combination with the annular rim, provided with lugs or a shoulder on its interior, and the trap-shell provided with a shoulder at its upper edge, adapted to rest upon the lugs or shoulder of the rim, the grating supported upon lugs on the upper face of said rim, and provided with hooked hangers, to engage in recesses in the walls of the trap-shell, whereby the grating is secured in place, substantially as set forth.

In testimony that I claim the foregoing I have hereunto set my hand in the presence of the subscribing witnesses.

A. HENRY LOWELL.

Witnesses:

R. J. P. GOODWIN,

F. C. MIVILLE.