

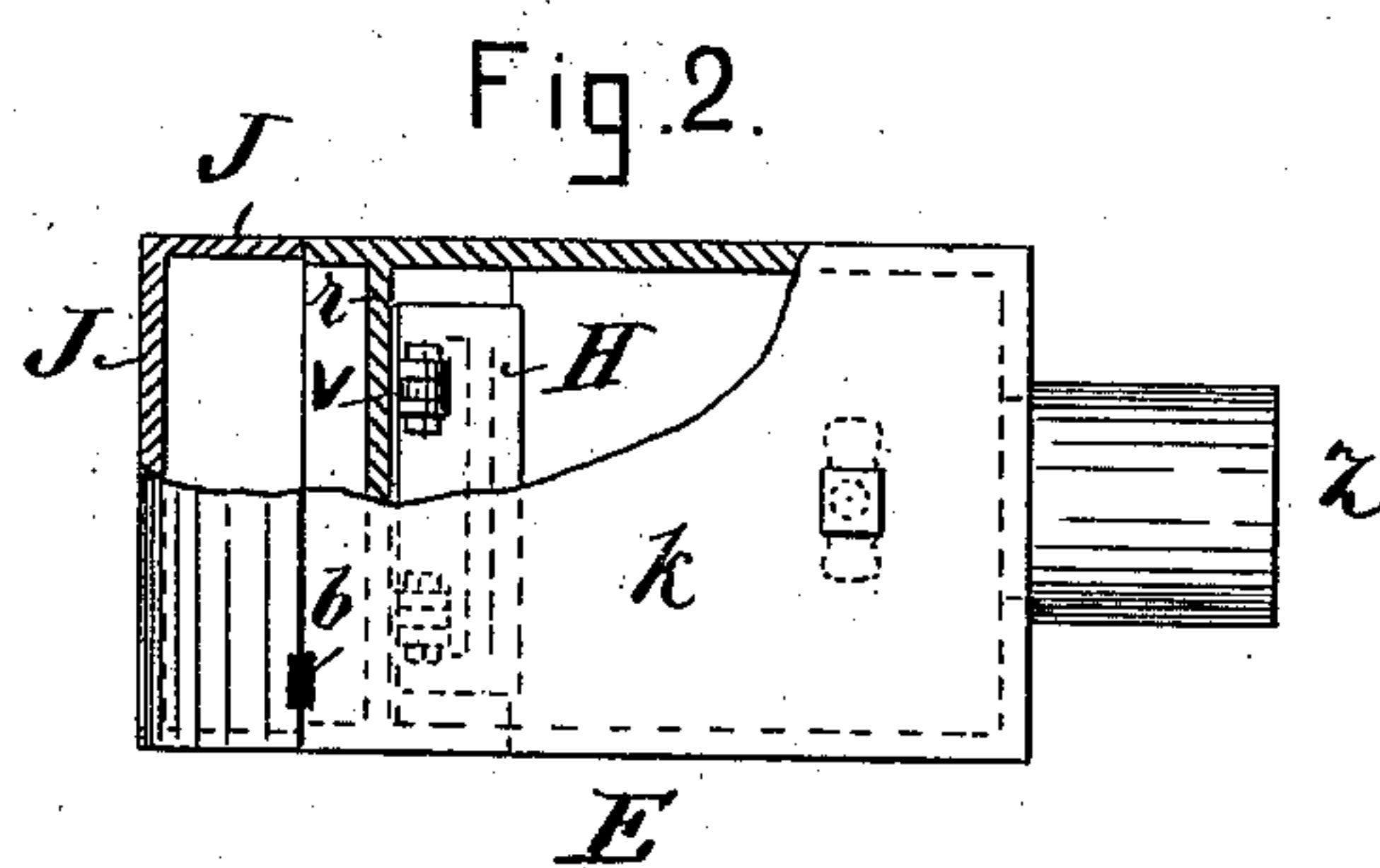
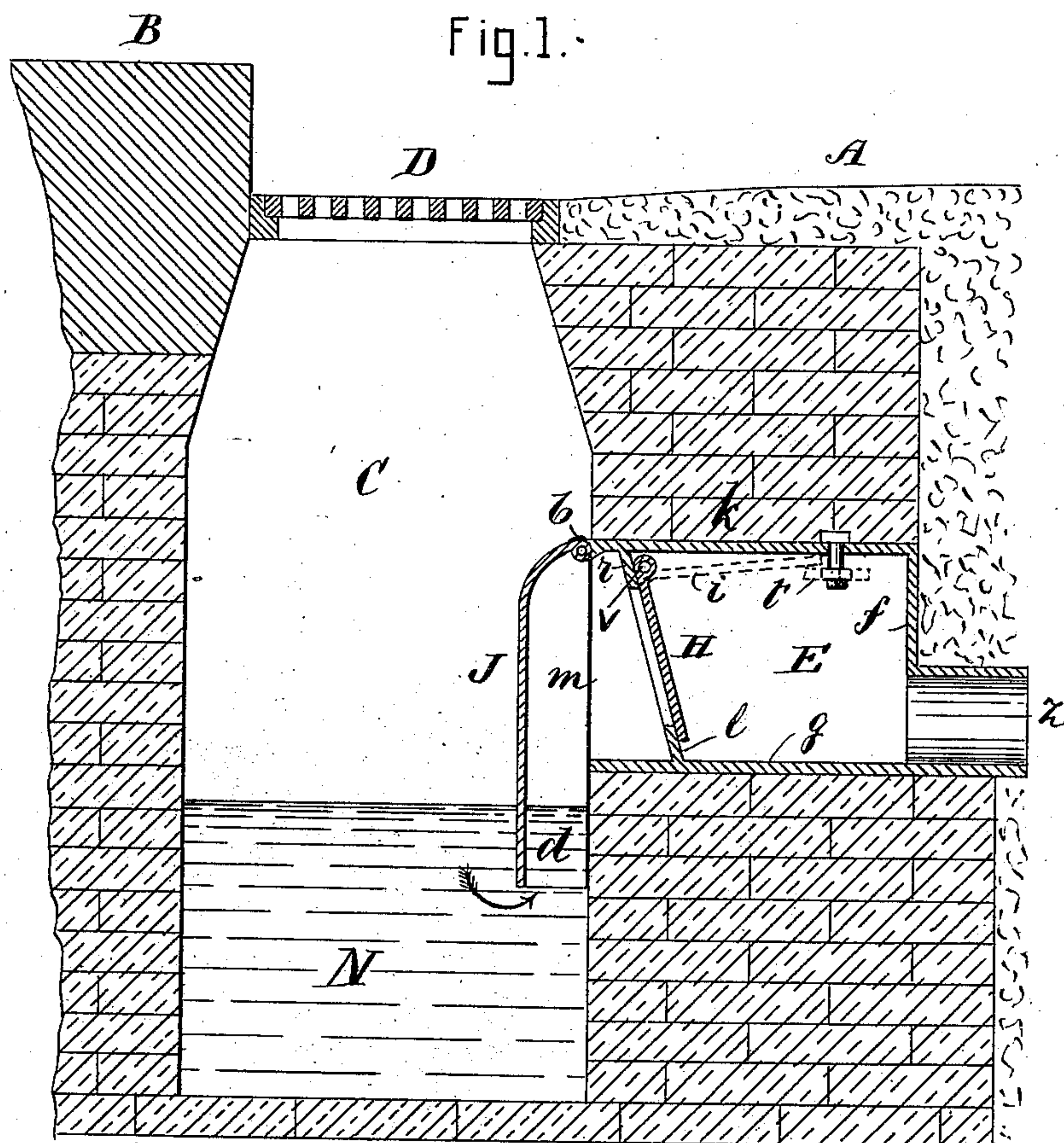
(No Model.)

D. HIGGINS.

SEWER TRAP.

No. 334,378.

Patented Jan. 12, 1886.



Witnesses.

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UNITED STATES PATENT OFFICE.

DANIEL HIGGINS, OF BOSTON, MASSACHUSETTS.

SEWER-TRAP.

SPECIFICATION forming part of Letters Patent No. 334,378, dated January 12, 1886.

Application filed August 22, 1885. Serial No. 175,034. (No model.)

To all whom it may concern:

Be it known that I, DANIEL HIGGINS, of Boston, in the county of Suffolk, State of Massachusetts, have invented a certain new and useful Improvement in Sewer-Traps, of which the following is a description sufficiently full, clear, and exact to enable any person skilled in the art or science to which said invention appertains to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a vertical longitudinal section of my improved trap, and also a section of the street and sidewalk; and Fig. 2 a top plan view of the trap proper.

Like letters of reference indicate corresponding parts in the different figures of the drawings.

My invention relates more especially to that class of sewer-traps which are designed to be used in street-sewers, drains, &c.; and it consists in a novel construction and arrangement of parts, as hereinafter more fully set forth and claimed, by which a more desirable and effective device of this character is produced than is now in ordinary use.

The nature and operation of the improvement will be readily understood by all conversant with such matters from the following explanation, its extreme simplicity rendering an elaborate description unnecessary.

In the drawings, A represents the street or road; B, the sidewalk; C, the cesspool, and D the grate or strainer.

The sewer-trap proper consists of the rectangular case or body E, valve H, and cowl or guard J. The body may be of any suitable size, and composed of iron or any other suitable materials. The outer end, *m*, of the body is open, but its inner end is closed by the wall *f*, through which the drain-pipe *z* opens. The valve H is hinged at *v* to a downwardly-projecting flange, *r*, on the inner side of the top *k* of the body E and opens inwardly, its lower edge resting on the stop *l* when it is closed. A button or hasp, *t*, is also secured to the in-

ner side of the top *k*, to enable the valve H to be secured in an elevated position when desired, as shown by the dotted lines *i*. The cowl or guard J is hinged at *b* to the front end of the top *k* of the body E, and its mouth *d*, which is open, extends below the plane of the bottom *g* of said body. The object of the cowl is to prevent chips, sticks, &c., which pass through the grate or strainer and float on the water N in the cesspool C, from being carried into the trap, the mouth of the cowl being submerged.

Whenever it is necessary to gain access to the body of the trap to cleanse or repair the same, the cowl may be raised and propped up or otherwise secured in an elevated position, and the valve H elevated and secured by the hasp or button *t*. The object of the valve H is to prevent the sewer-gas from passing through the trap into the cesspool, and thence through the grate D. The valve also prevents the water from returning through the pipe *z* into the cesspool, as sometimes occurs where the tide-water flows back through the drain-pipe or sewer or when the pipes become flooded.

I do not confine myself to locating the grate or strainer D and cesspool C in the street or the body E beneath the street, as they may be disposed in any convenient and suitable position, or in accordance with the circumstances under which the trap is employed.

Having thus explained my invention, what I claim is—

1. The improved sewer-trap herein described, the same consisting of the body E, valve H, and cowl J, constructed, combined, and arranged to operate substantially as described.

2. The body E, provided with the valve H and cowl J, in combination with the pipe *z*, cesspool C, and grate or strainer D, substantially as set forth.

DANIEL HIGGINS.

Witnesses:

C. A. SHAW,
L. J. WHITE.