

(No Model.)

H. B. GREENLEAF.

SEWER TRAP.

No. 260,563.

Patented July 4, 1882.

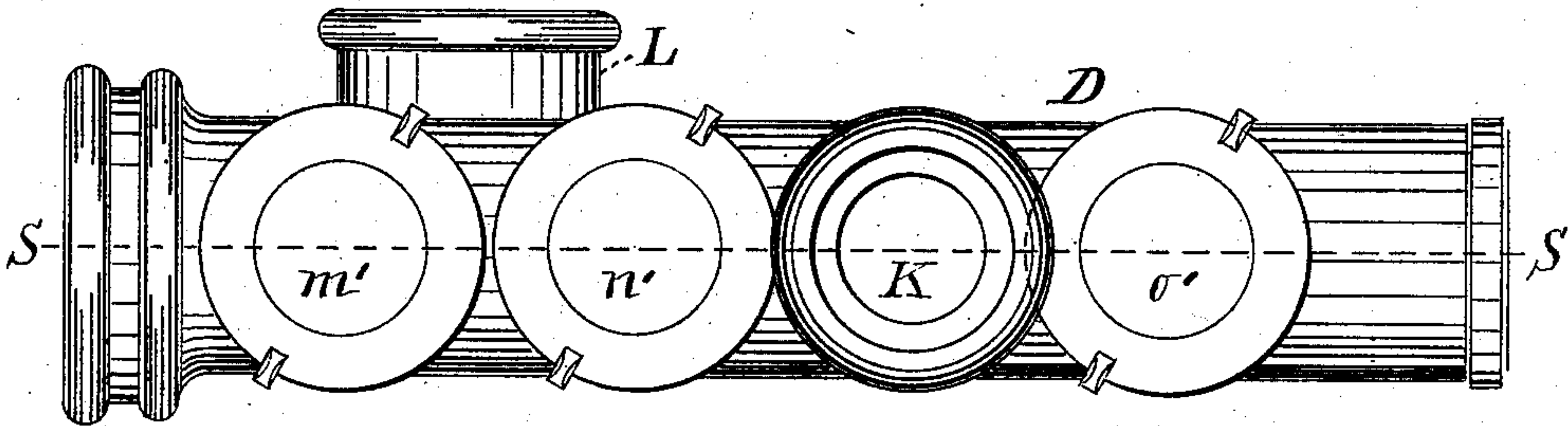


Fig. 1.

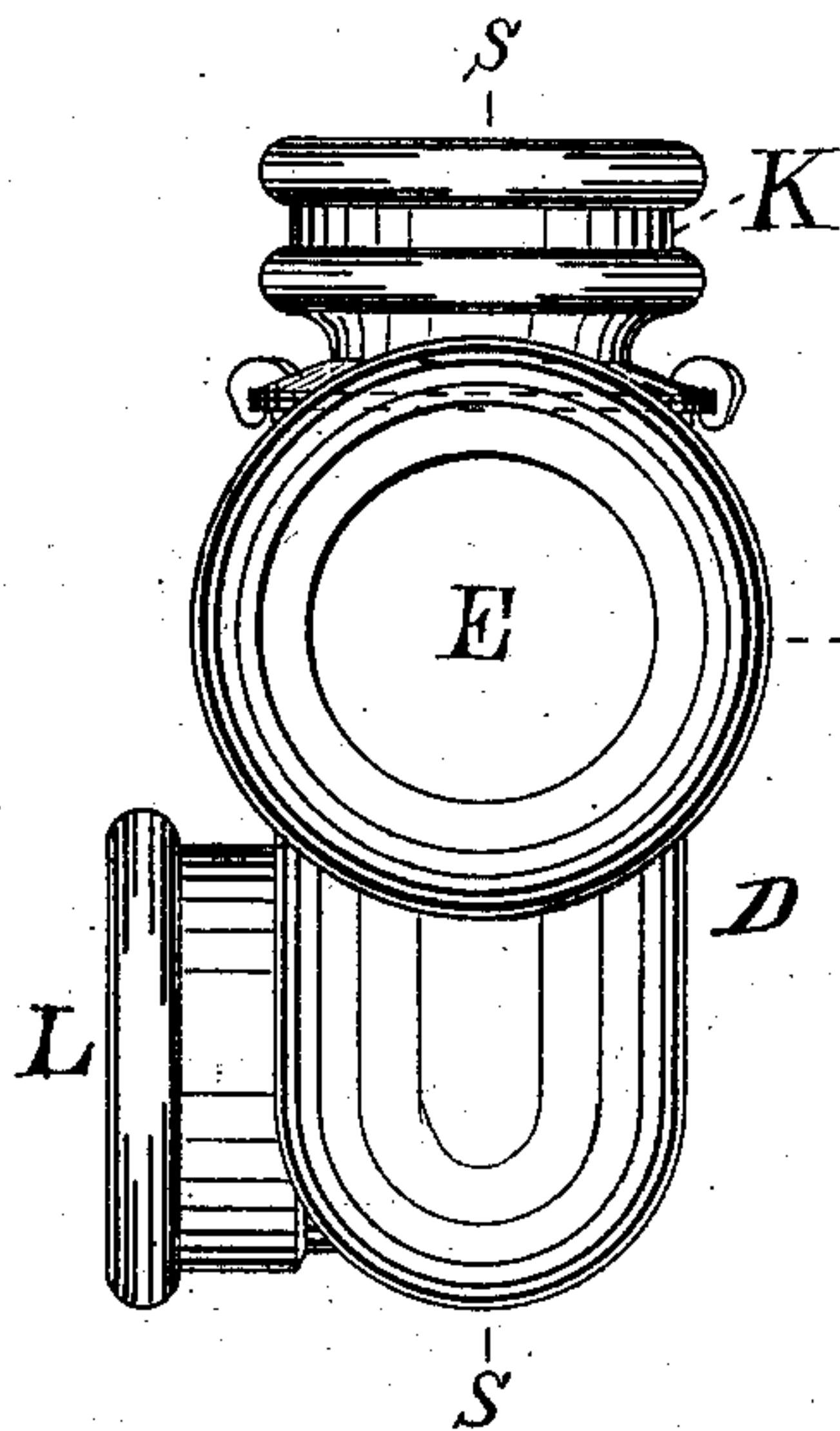


Fig. 2.

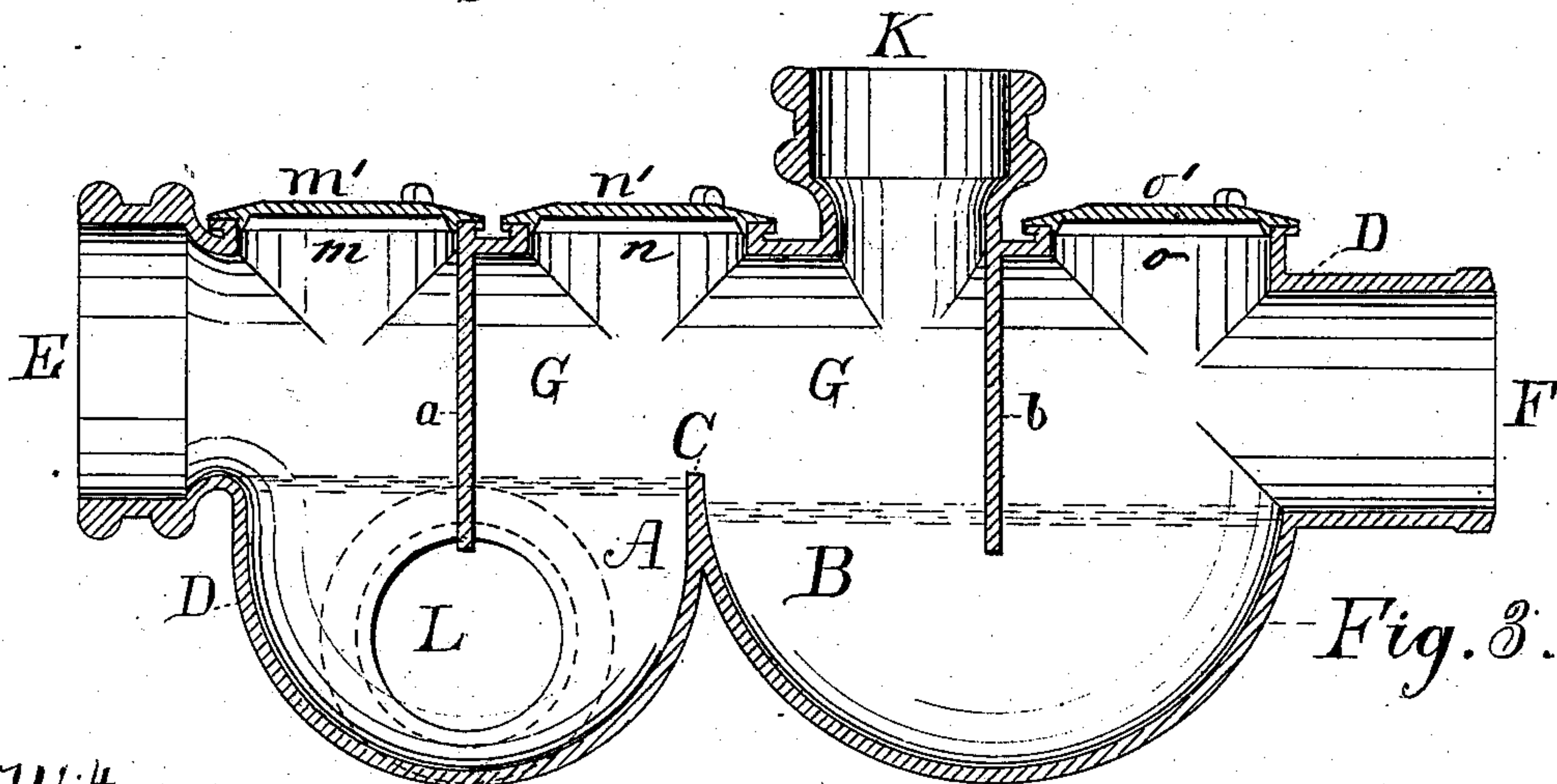


Fig. 3.

Witnesses

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UNITED STATES PATENT OFFICE.

HENRY B. GREENLEAF, OF BOSTON, MASSACHUSETTS.

SEWER-TRAP.

SPECIFICATION forming part of Letters Patent No. 260,563, dated July 4, 1882.

Application filed April 10, 1882. (No model.)

To all whom it may concern:

Be it known that I, HENRY B. GREENLEAF, of Boston, in the county of Suffolk and State of Massachusetts, have invented certain new and useful Improvements in Sewer-Traps; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification, and in which—

Figure is plan or top view. Fig. 2 is an end elevation, and Fig. 3 is a longitudinal vertical section through the line *s s*.

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

My invention has relation to traps for house drains and sewers; and it consists in the improved construction of the same, hereinafter more fully described and claimed, having for its object to provide a perfectly sealed and at the same time a thoroughly ventilated trap, which will effectually prevent gases and foul odors from the drains or sewers from entering the building to which it is applied.

My improved sewer-trap is composed of a shell, D, which may be of iron, stoneware, or other suitable material, having the inlet E and outlet F. This shell contains two chambers or basins, A and B, which are separated by a bridge-wall, C, that extends upward from the bottom of the shell D to the same level as the inlet E, which is on a somewhat higher level than the outlet F.

Above the basins A and B is a chamber, G, formed by the parallel curtains or diaphragms *a* and *b*, which extend downward from the upper part of the trap to a sufficient depth to form, in connection with the bridge-wall C, a perfect water seal in either of the two basins, A and B, thus forming substantially a double trap, with the water in the inner basin, A, higher than that in the outer basin, B, caused by placing the outlet F at a lower level than the inlet E.

Chamber G has a hub or opening, K, in the top of the trap, to which a ventilating pipe or flue (not shown in the drawings) is to be attached. This flue should be carried to such

a height that will secure free ventilation of chamber G, and it may for this purpose be connected with the roof-conductors, or with ventilating-pipes where such exist, or with the flues or chimneys of the building. There is also a hub on the side of the trap, as shown at L in Figs. 2 and 3, which opens into the inner basin, A, below the water-line, and may be connected, if desired, by suitable piping with the yard-cesspool.

Hub L may, of course, be placed on either side of shell D, so as to form a right or left hand trap.

In the top of the shell are three openings, *m*, *n*, and *o*, which are closed respectively by tightly-fitting removable covers *m'*, *n'*, and *o'*. These are for the purpose of cleansing the trap when required, as they give access to all its parts. By removing the cover *m'* and applying a hose to the opening the trap can be flushed without breaking the water-seal in the inner basin, A, and by replacing cover *m'* and removing *n'* and *o'* the sediment may be removed from both basins without any gas or odor escaping through the drain.

The central ventilated chamber, G, effectually prevents "siphoning" of the trap, and also carries off the gases which emanate from the water in the outer basin, B, which are carried off through the ventilating-tube attached to the opening K.

Having thus fully described my invention, I claim and desire to secure by Letters Patent of the United States—

The sewer-trap herein shown and described, composed of an outer shell or casing, D, having the inlet E on a higher level than the outlet F, and provided with the basins A B, bridge-wall C, curtains *a b*, forming the chamber G, hubs K and L, apertures *m*, *n*, and *o*, and covers *m'*, *n'*, and *o'*, all constructed and arranged substantially as and for the purpose shown and specified.

In testimony that I claim the foregoing as my own I have hereunto affixed my signature in presence of two witnesses.

HENRY B. GREENLEAF.

Witnesses:

JOEL F. BROWN,
GEO. H. SPRAGUE.