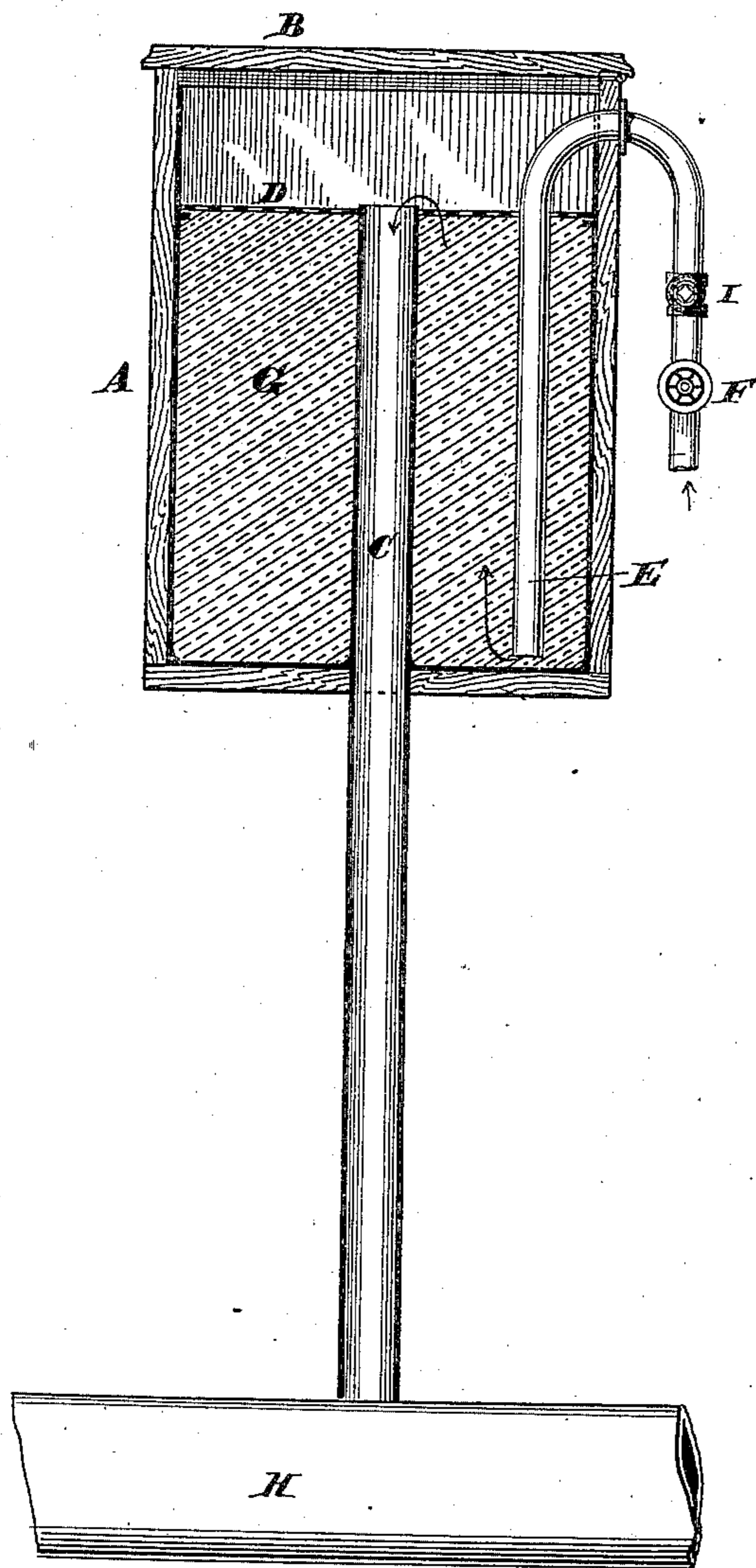


(No Model.)

R. THAYER.
DISINFECTING APPARATUS.

No. 311,271.

Patented Jan. 27, 1885.



Attest
Harry R. Schafer.
George E. Hummel.

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Russell Thayer
By *[Signature]*

UNITED STATES PATENT OFFICE.

RUSSELL THAYER, OF PHILADELPHIA, PENNSYLVANIA.

DISINFECTING APPARATUS.

SPECIFICATION forming part of Letters Patent No. 311,271, dated January 27, 1885.

Application filed May 22, 1884. (No model.)

To all whom it may concern:

Be it known that I, RUSSELL THAYER, of the city and county of Philadelphia, and State of Pennsylvania, have invented new and useful Improvements in Disinfecting Apparatus, of which the following is a specification.

My invention has reference to disinfecting apparatus or hygienators; and it consists in a receptacle containing a disinfecting substance, and having an overflow-pipe connecting with the sewer or waste pipe to be disinfected, and an inlet-pipe to admit water slowly into the said receptacle and cause it to flow through disinfecting material, and in details of construction, all of which is fully set forth in the following specification and shown in the accompanying drawing, which forms part thereof.

The object of this invention is to disinfect water-closets, waste and sewer pipes about houses or other places, and at the same time provide apparatus to accomplish said result which shall be compact, efficient, and cheap to construct, and adapted to be used continuously or intermittently.

In the drawing is shown a sectional elevation of my improved disinfecting apparatus or hygienator.

A is a box, preferably lined with lead, but may be made of glass or any other suitable substance and of any desired form.

B is a lid or cover, which is adapted to be locked.

C is an overflow-pipe, preferably of lead, and extends up through center of the box A and terminates near the top; or it may enter the box at the side, if desired. This pipe connects with the water-closet or pipe H to be disinfected.

D is a perforated or gauze diaphragm, and is supported in the box on a level with the pipe C, and is adapted to prevent the disinfecting material, G, placed within the box from being shifted or clogging the pipe C, but might be dispensed with, if desired.

E is a goose-neck water-supply pipe, and is provided with a valve, F, the said pipe extending into the box A and terminating near its bottom. If desired, this pipe might en-

ter the bottom directly; but the construction shown is probably the cheapest to make, as no soldered joints are required.

I is a check-valve.

The operation is as follows: Water is allowed to flow through pipe E and circulates up through the disinfecting material G, becoming impregnated therewith by the time it reaches the top, and passes above the diaphragm and flows into the overflow C, and is conveyed to the place to be disinfected. The box A remains full of water constantly, and as the flow is very slow the water has much time in which to become impregnated with the disinfecting and deodorizing substance before escaping. By stopping the flow of water the apparatus is practically put out of action, and by turning the water on full it may be washed out.

In place of solid material a disinfecting-fluid might be used; but it would require refilling more often than when solids are used.

While I prefer the construction shown, I do not limit myself thereto, as the details of construction may be modified without departing from my invention.

I am aware of the patents to Howard, No. 183,264, of 1876, Brown, No. 131,422, of 1872, and Pike, No. 270,111, of 1883, and claim nothing therein set forth or shown.

Having now described my invention, what I claim as new, and desire to secure by Letters Patent, is—

In a disinfecting apparatus, the combination of a box, A, having the central overflow-pipe, C, the supply-pipe E, extending close to the bottom of the box and connected with the water-main, a valve, F, to regulate the flow of water through said pipe, and a check-valve, I, to prevent siphoning of the disinfectant liquid from said tank, substantially as and for the purpose specified.

In testimony of which invention I hereunto set my hand.

RUSSELL THAYER.

Witnesses:

R. M. HUNTER,

FRANCIS S. BROWN.