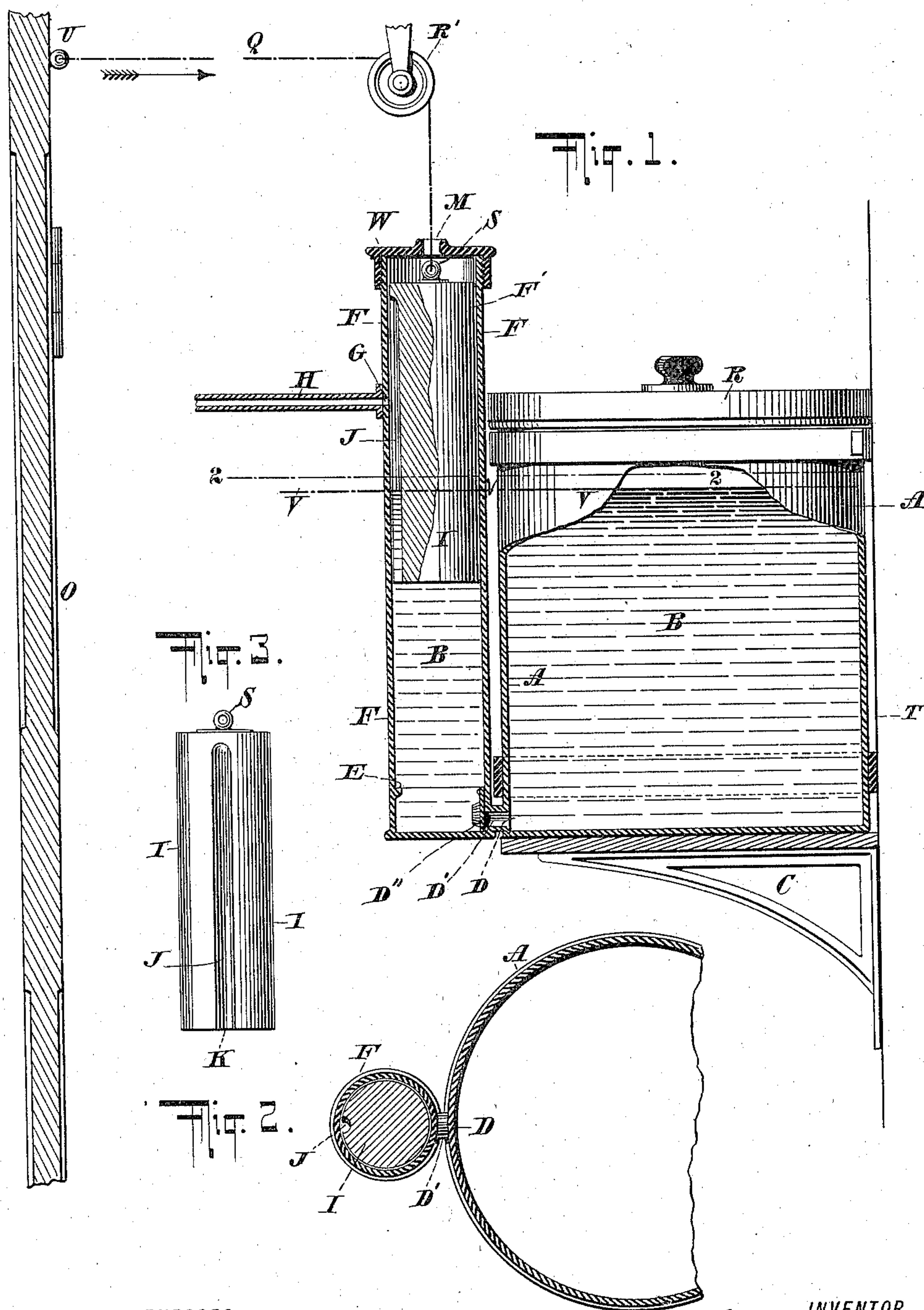


(No Model.)

H. MAYER.
DISINFECTING APPARATUS.

No. 575,364.

Patented Jan. 19, 1897.



WITNESSES:

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UNITED STATES PATENT OFFICE.

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DISINFECTING APPARATUS.

SPECIFICATION forming part of Letters Patent No. 575,364, dated January 19, 1897.

Application filed August 15, 1896. Serial No. 602,839. (No model.)

To all whom it may concern:

Be it known that I, HERMAN MAYER, of the city, county, and State of New York, have invented a certain new and useful Improvement in Disinfecting-Machines, of which the following is a specification and description.

The object of this invention is to provide a simple device to compel a disinfecting fluid to flow at intervals when necessary and in ample quantities into the area to be influenced thereby.

In the accompanying drawings similar letters refer to identical parts in the various figures, of which—

Figure 1 shows a sectional view of the apparatus. Fig. 2 is a plan view of Fig. 1 on the lines 2-2. Fig. 3 shows in detail the weight shown in Fig. 1.

A is a vessel containing a quantity of disinfecting fluid B, which is placed in said vessel A in any convenient way, preferably through an opening in the top thereof, in the drawings shown closed by the cover R. Said vessel A rests on a bracket or other support C, fastened to the wall T.

Near the bottom of the vessel A is an opening D, connecting by means of the conduit-pipe D' with the opening D'' in the vessel F, adjacent to and connected with the vessel A.

I is a weight fitting snugly into the vessel F, so that its periphery will be contiguous with the wall F' of the vessel F. J is a groove in said weight I, commencing at the bottom K of said weight I and running up to within a short distance from the top of said weight I. G is an opening in said vessel F on the side and on that part of the wall F' along which runs the groove J in the weight I, connecting with a pipe H, which said opening G is made in said vessel F at a point above the top of the vessel A, but so placed that the top of the said groove J will in all events be some distance above the opening G.

O is a door or other opening device from which at U a rope, chain, rod, or other connecting medium Q passes over the roller or support R' and connects, through the opening M in the cap W of the vessel F, with the eye S of the weight I.

The operation of the device is as follows: The drawing Fig. 1 shows the apparatus at rest, with the door O closed. The liquid B

has passed, through the openings D, pipe D', and opening D'', from the vessel A into the vessel F and risen through the groove J in the weight I to the level-line V' V. When the door O is opened, the weight I will drop and its pressure upon the liquid B will force the said liquid B up through the groove J in the weight I and out of the opening G into the pipe H to its sphere of activity. The plug E must be so arranged that it is above the opening D'' in the vessel F and up so far that when the weight I rests upon said plug E part of the groove J will be kept before the opening G. The liquid B will thus continue to flow into the vessel F and rise through the groove J as long as the weight I rests upon the plug E. When the door O is closed, the weight I will rise to the position shown in Fig. 1, and the pressure of the weight I being removed the disinfectant B, while continuing to flow from the reservoir A into the vessel F, will not, in said vessel F, rise to a point higher than the top of the disinfectant B in the reservoir A.

Whereas the apparatus here shown and the means employed to produce the effects here described are preferably used by me, I do not limit myself thereto, but intend to claim the use of the mechanical equivalents of any of the devices here shown.

Having thus described my invention, what I desire to procure by Letters Patent and claim is as follows:

1. The combination of a reservoir having an outlet, with another vessel into which said outlet opens, a weight in said second vessel so arranged that it may be raised and lowered as desired, said weight fitting snugly into said second vessel, and provided with a groove running along the side thereof from the bottom of said weight, almost to the top thereof, an outlet-pipe placed on the side of said vessel, along which said groove runs in said weight and above the highest point of the contents in the reservoir; and a device for maintaining said weight above the said outlet-opening into the second vessel from the said reservoir, substantially as and for the purposes described.

2. A disinfecting device consisting of a reservoir A for containing a disinfectant B, having a pipe D' which said pipe D' leads into a

vessel F, a plug E in said vessel F, placed therein at a point higher than the outlet D'', a weight I connecting by means of a connecting medium Q, passing through the eye S of
5 said weight I through the opening M in the cap W of said vessel F, with an opening and closing device O, said weight I fitting snugly in said vessel F, so that its outer periphery will be contiguous with the wall F' of the ves-
10 sel F, said weight I having a groove J which runs from the bottom K of the weight I almost to the top of said weight I along one side of the inner wall F' of the vessel F, on which side of said vessel F is an outlet G opening into a
15 discharge-pipe H, said outlet G being made in said vessel F, at a point above the highest point of the contents of the reservoir A, sub-

stantially as and for the purposes herein set forth.

3. An apparatus for discharging liquid from 20 the holder of said liquid, consisting of a weight, the outer surface of said weight being contiguous with the wall of the holder of said liquid, said weight being provided with a groove, adapted to register with an outlet in 25 the wall of said holder of said liquid, and said weight being susceptible of being raised and lowered, substantially as and for the purposes herein set forth.

HERMAN MAYER.

Witnesses:

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JACOB E. BAB.