

(No Model.)

E. TAUSSIG.

APPARATUS FOR DELIVERING DISINFECTING MATERIAL, &c.

No. 570,518.

Patented Nov. 3, 1896.

Fig. 1.

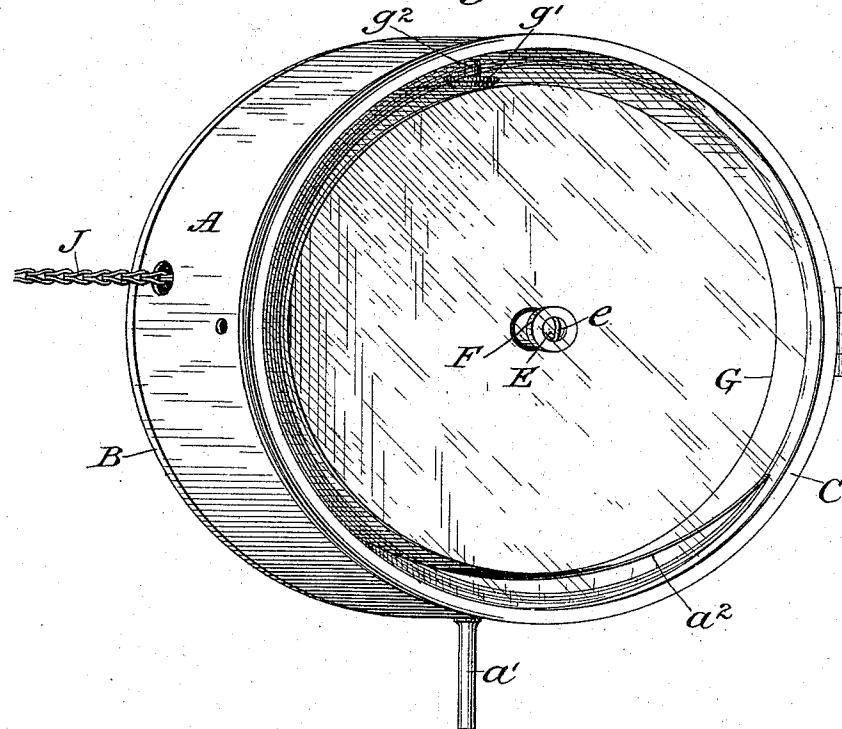
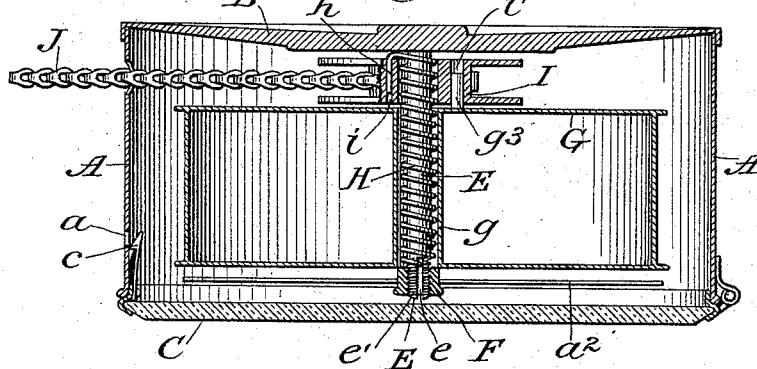


Fig. 2.



Attest:

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# UNITED STATES PATENT OFFICE.

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## APPARATUS FOR DELIVERING DISINFECTING MATERIAL, &c.

SPECIFICATION forming part of Letters Patent No. 570,518, dated November 3, 1896.

Application filed December 24, 1895. Serial No. 573,223. (No model.)

*To all whom it may concern:*

Be it known that I, EMIL TAUSSIG, a citizen of the United States, residing in the city and county of New York, State of New York, have invented certain new and useful Improvements in Apparatus for Delivering Disinfecting Material, &c., of which the following is a specification, reference being had to the accompanying drawings, forming a part hereof.

This invention relates to the construction of apparatus such as is commonly used for delivering disinfecting or deodorizing material in limited quantities, as required, and it has for its object to simplify and improve the construction of such apparatus or devices, to make them certain and effective in operation, to make the cost of manufacture as low as possible, to render the substitution in the apparatus of a full reservoir of the disinfecting or deodorizing material for an empty reservoir or holder easy to be effected, and to make the discharge of such material to be more accurately controlled. In Letters Patent of the United States No. 551,564, dated December 17, 1895, there is shown and described an apparatus of this general character in which the reservoir or holder for the disinfecting or other material is arranged to be oscillated upon its axis by the pull upon a chain, so as to deliver a limited amount of the disinfecting or other material at the proper time. As therein shown, the said reservoir or holder for the disinfecting or other material has the chain by which it is partially rotated connected directly thereto and is weighted eccentrically, so that it shall automatically resume its normal position with the delivery-orifice uppermost when the pull on the chain is relaxed. It is therefore not easy to remove the reservoir or holder for the purpose of repairing it or of refilling it or of substituting another in its place, and, moreover, by reason of the additional weight the holders or reservoirs are rendered less convenient for handling by the attendant whose duty it is to refill them or to replace the empty reservoirs or holders by full reservoirs or holders. Furthermore, as the weight is necessarily quite heavy the strain on the chain is sometimes quite severe and the action of the weight in restoring the holder is slow and uncertain,

making the discharge of material more or less irregular. In the present case I have sought particularly to improve the means for supporting the reservoir or holder and for restoring it to its normal position after it has been partially rotated, so that it can be easily removed for the purpose of refilling it or of replacing an empty reservoir by a full one, and so that the operation of the device shall be more certain, accurate, and reliable, while at the same time all of the parts are easily and cheaply constructed.

The features of construction wherein the invention particularly consists will be fully described hereinafter with reference to the accompanying drawings, in which—

Figure 1 is a perspective view of a disinfecting apparatus which embodies the invention. Fig. 2 is a horizontal central section of the same, the chain drum or spool being shown partly in plan view.

The improved apparatus comprises an outer shell or casing A, which is preferably cylindrical in form and has a substantial back B to support the other parts of the apparatus. The front of the casing may be closed by a door C, which may be of glass, as indicated in the drawings, and may be held by a catch c, which is arranged to be released by the insertion of a suitable tool or key through an aperture a in the casing A. The back B has secured thereto in central position a stud E, which is preferably slotted longitudinally for a short distance from its outer end, as at e, and is screw-threaded, as at e', to receive a retaining-nut F. The stud E supports with freedom for oscillation the reservoir or holder G, which is also preferably cylindrical and is provided with a central tube or sleeve g, which incloses the aperture for the stud E, and with an ordinary filling-cap g', which may have formed in it the small discharge orifice or nipple g<sup>2</sup>. A spring H is connected to the reservoir or holder G to restore the same to its normal position with the discharge-orifice g<sup>2</sup> at the highest point and is preferably formed as an ordinary coil-spring, which is sleeved upon the stud E within the tube or sleeve g of the reservoir or holder G and has one end bent or formed to engage the slot e in the end of the stud E. The other end of the spring H engages, as at h, an independent drum or

spool I, which is mounted loosely upon the stud E next to the back B and is adapted to have secured thereto the chain J, which is attached to the door or other movable part 5 by which the pull is exerted. Preferably the drum or spool I has a hole  $i$ , which is adapted to engage the end  $h$  of the spring II when the drum or spool is slipped into place. It is also adapted to engage the reservoir or holder G, 10 and for this purpose may be formed with a hole  $i'$  to receive a pin  $g^3$ , which is fixed to the reservoir or holder G.

In assembling the parts the spring II is first slipped upon the stud E, and then the drum 15 or spool I, having had the end of the chain J secured thereto, is slipped upon the stud E over the spring II and is engaged with the end  $h$  of the latter. Thereupon the reservoir or holder G is likewise slipped upon the stud 20 E over the spring II, is engaged with the drum or spool I, as already described, and is held in place by the nut F upon the end of the stud E. The spring is so adjusted that when all of the parts are in their positions of rest 25 the orifice or nipple  $g^2$  of the reservoir or holder G shall stand at the highest point. If then tension is put upon the chain J, the reservoir or holder G will be partially rotated to bring the orifice or nipple  $g^2$  to the lowest 30 point, so that a portion of the contents of the reservoir or holder may be discharged into the case or shell A, from which it is conducted away by a pipe  $a'$ . In order to prevent the waste of the disinfecting or other material, a lip  $a^2$  is secured to the inside of the shell or casing A just inside the door and at the lower portion of the inner periphery of the shell or casing, the material which escapes from the reservoir or holder G passing 35 into the shell or casing A in rear of this lip  $a^2$  and issuing from the shell or casing only through the proper outlet  $a'$ .

It will be obvious that the reservoir or holder G may be removed without disturbing 40 the drum I or the connection of the chain J by simply removing the nut F and that another reservoir may be substituted in its place with as little difficulty. Furthermore, the spring is always in position and readiness to 45 act, and therefore returns the holder more quickly and with greater certainty to its normal position, insuring a more regular and accurately-controlled discharge of the contents, while avoiding any excessive strain upon the 50 chain. At the same time all of the parts are exceedingly simple in construction and the reservoir G has no mass of metal to occupy 55 space or to increase weight.

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

1. In an apparatus for delivering disinfecting material, &c., the combination of a suitable support, a reservoir or holder mounted to oscillate upon said support, a spool or drum

also mounted on said support and connected to said reservoir or holder to oscillate therewith, a chain connected to said drum to effect a partial rotation of said reservoir or holder in one direction and a spring to restore said reservoir or holder to normal position when the pull upon the chain is relaxed, said reservoir or holder having a discharge-orifice which is normally at the highest point, substantially as shown and described.

2. In an apparatus for delivering disinfecting material, &c., the combination of a supporting-stud, a reservoir or holder mounted to oscillate upon said stud, a spool or drum also mounted upon said stud and connected to said reservoir or holder to oscillate therewith, a chain connected to said drum or spool to oscillate said reservoir or holder in one direction and a spring connected to said drum or spool to oscillate said reservoir or holder in the opposite direction, substantially as shown and described.

3. In an apparatus for delivering disinfecting material, &c., the combination of a supporting-stud, a spiral spring sleeved upon said stud and formed to engage the same at one end, a spool or drum mounted upon said stud and engaged by the other end of said spring, a reservoir or holder also mounted upon said stud and engaged by said drum or spool and a chain secured to said drum or spool, substantially as shown and described.

4. In an apparatus for delivering disinfecting material, &c., the combination with a shell or casing having a discharge-pipe and having a lip or flange formed on the lower portion of the inner periphery near the front edge thereof, a reservoir or holder mounted to oscillate within said shell or casing and having a discharge-orifice and means to oscillate said reservoir or holder to cause the same to deliver its contents into the lower portion of said shell or casing, substantially as shown and described.

5. In an apparatus for delivering disinfecting material, &c., the combination of a cylindrical shell or casing having a supporting-back and a removable front or door, a stud centrally secured to said back, a spool or drum mounted upon said stud, a chain secured to said drum or spool, a cylindrical reservoir or holder mounted upon said stud and having a discharge-orifice and connected to said drum or spool and a spring having one end secured to a fixed support and having the other end connected to said spool or drum, substantially as shown and described.

This specification signed and witnessed this 19th day of December, A. D. 1895.

EMIL TAUSSIG.

In presence of—

ROBERT S. CHAPPELL,  
W. B. GREELEY.