

(No Model.)

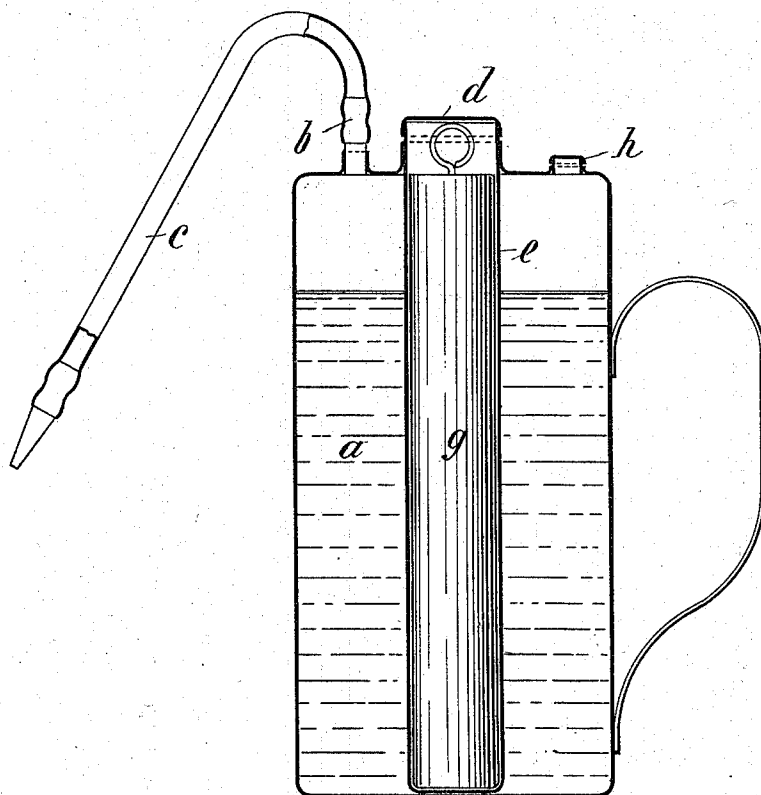
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H. K. ANDERSSON.
DISINFECTING APPARATUS.

No. 528,135.

Patented Oct. 30, 1894.

Fig. 1.



Witnesses
J. M. Pond.
F. D. Morris.

Inventor
Hilda Karolina Andersson.
By John J. Halsted & Son,
her Attorneys.

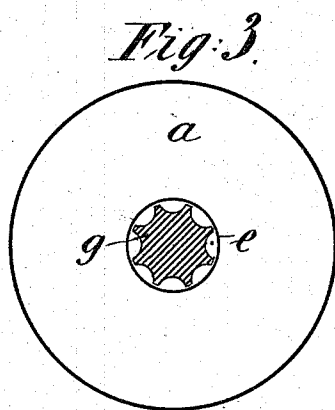
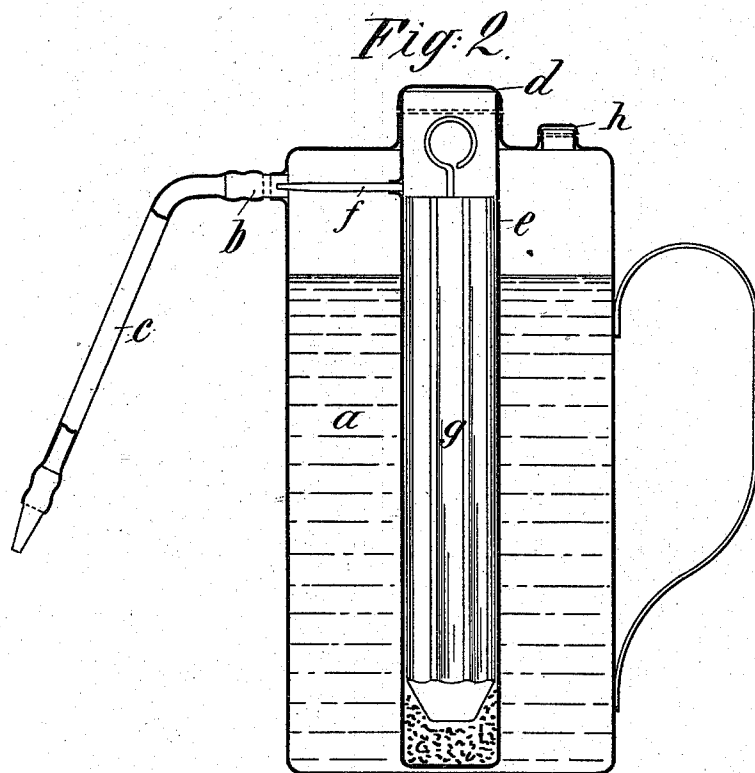
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2 Sheets—Sheet 2.

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UNITED STATES PATENT OFFICE.

HILDA KAROLINA ANDERSSON, OF STOCKHOLM, SWEDEN, ASSIGNOR OF
ONE-HALF TO DAVID SJÖSTRÖM, OF SAME PLACE.

DISINFECTING APPARATUS.

SPECIFICATION forming part of Letters Patent No. 528,135, dated October 30, 1894.

Application filed June 18, 1894. Serial No. 514,940. (No model.) Patented in Sweden November 30, 1893, No. 5,035, and
France January 30, 1894, No. 235,925.

To all whom it may concern:

Be it known that I, HILDA KAROLINA ANDERSSON, a subject of the King of Sweden and Norway, and a resident of Stockholm, Sweden, have invented an Improved Disinfecting Apparatus, (for which I have obtained a Swedish patent, No. 5,035, dated November 30, 1893, and a French patent, No. 235,925, dated January 30, 1894,) of which the following is a specification.

This invention relates to a simple apparatus for the disinfection of furniture, clothes, rooms, &c.

In the annexed drawings, one form of the apparatus is shown in a vertical section in Figure 1. Fig. 2 is a vertical, and Fig. 3 a horizontal section of a modified construction of the apparatus.

The apparatus illustrated in Fig. 1, consists of a receptacle *a*, (preferably of sheet-metal,) fitted on the outside with a short pipe *b*, to which is attached a piece of hose *c* provided with a nozzle. The receptacle has two openings *d* and *h*, which may be closed tightly. Through the opening *d*, an inner cylinder *e* is inserted, reaching nearly to the bottom of the external vessel *a*.

When the apparatus is to be used, a liquid (preferably water) is poured in through the opening *h*, which is afterward closed, whereupon a plunger *g* is heated red-hot and inserted in the receptacle *e*, thus causing the water in the apparatus to be heated. The operation is repeated until the water becomes so hot, that it commences to escape in the shape of steam through the pipe *b*. The hot plunger *g* is now allowed to remain in the receptacle *e*, and the opening *d* is closed. The steam discharging from the pipe *b*, can, from this moment, be conducted through the hose *c* to the point where the disinfection is to take place.

The apparatus shown in Figs. 2, and 3, is arranged in about the same manner, with the difference that the inner receptacle *e*, is provided with a spout or nozzle *f*, that enters the

short pipe *b*. The plunger *g*, has such a shape at the circumference, that it does not entirely fill the receptacle *e*; and to this end, it may be made of other than circular form, or, as for instance grooved substantially as shown. The water in this case is heated as before; when it begins to pass away as steam through the pipe *b*, together with a disinfectant which had been deposited at the bottom of the receptacle *e*, the plunger being afterward inserted and the opening *d*, closed. Now a volatilization of the disinfectant takes place, and the smoke, passing along the circumference of the plunger, escapes through the nozzle *f*, an intimate mixture being thus effected with the steam discharging through the pipe *b*; the steam at the same time drawing along the vapors from the inner receptacle *e* to the place of use.

The advantage of this latter arrangement lies in the fact, that the disinfectant becomes thoroughly mingled with the steam, which will not be the case, when the disinfectant is placed directly in the water to be heated, for, in such cases it sometimes happens that the disinfectant does not evaporate at all, but remains in the vessel while the water escapes.

Having now particularly described and ascertained the nature of my said invention and in what manner the same is to be performed, I declare that what I claim is—

A disinfecting apparatus having in combination,—an outer receptacle, a smaller one within the same, a removable heating plunger for insertion in such smaller one, a discharge-pipe from the outer receptacle, and a nozzle on the inner receptacle extending to and entering into such discharge-pipe, all substantially as shown and described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

HILDA KAROLINA ANDERSSON.

Witnesses:

JOHN EAVERY,
H. TELANDER.