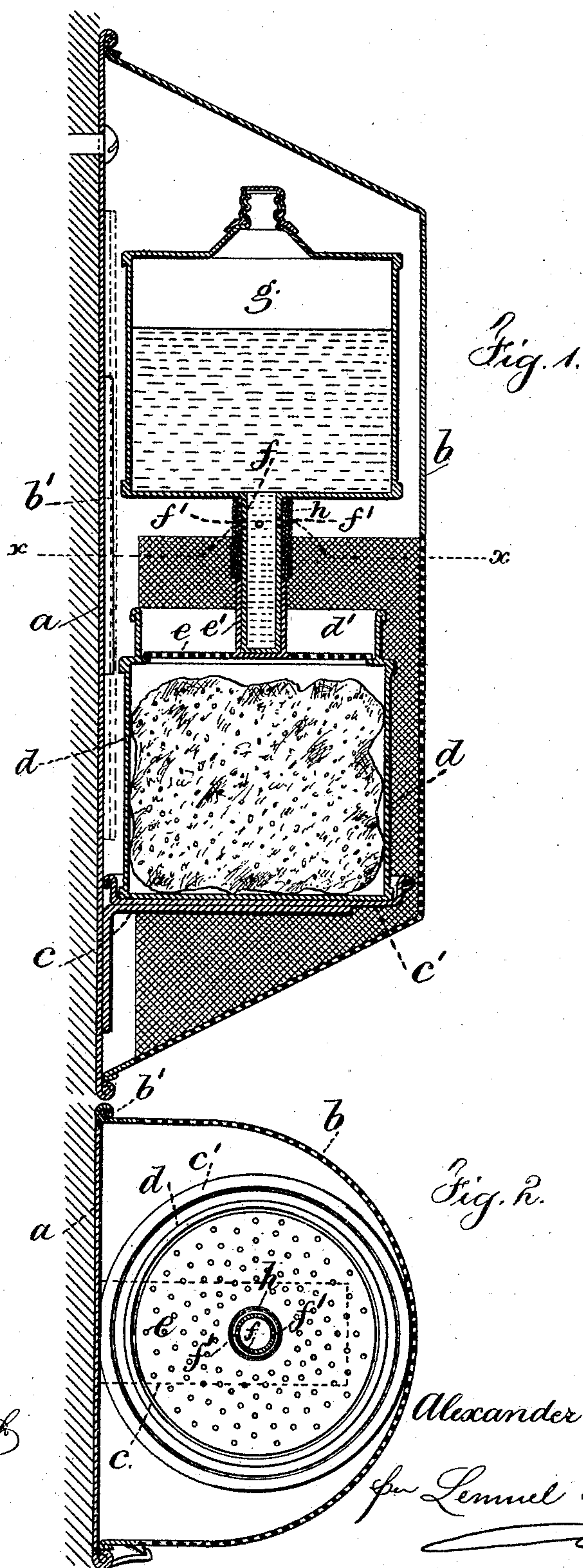


(No Model.)

A. S. FORCE.
DISINFECTING DEVICE.

No. 467,575.

Patented Jan. 26, 1892.



Witnesses

Chas. H. Smith
J. Staib

Inventor

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[Signature]

UNITED STATES PATENT OFFICE.

ALEXANDER S. FORCE, OF JERSEY CITY, NEW JERSEY, ASSIGNOR TO JOSHUA M. CAREY, OF NEW YORK, N. Y.

DISINFECTING DEVICE.

SPECIFICATION forming part of Letters Patent No. 467,575, dated January 26, 1892.

Application filed June 4, 1891. Serial No. 395,059. (No model.)

To all whom it may concern:

Be it known that I, ALEXANDER S. FORCE, a citizen of the United States, residing at Jersey City, in the county of Hudson and State of New Jersey, have invented a new and useful Improvement in Disinfecting Devices, of which the following is a specification.

My invention relates to that class of small, compact, and portable devices that are adapted to be placed in bath-rooms, water-closets, and alongside of sinks, urinals, &c., for disinfecting purposes, and, in fact, in any place where it is desirable to employ a disinfectant.

My invention consists in a vessel for holding the disinfecting-liquid, having a perforated stem wrapped with wicking, a perforated disk and tubular holder upon an open-mouth vessel and supporting the vessel holding the disinfecting material. These are upon a bracket projecting from a back plate and surrounded by a case of open work or perforated in part. The case is adapted to be fastened to a wall and the disinfecting-liquid in the vessel discharges very gradually through the perforated stem, saturating the wicking, and the surplus descends through the perforated disk into the open-mouth vessel, in which a sponge or other absorber is placed. The disinfecting material evaporates from the sponge and finds an exit through the said perforated disk and case into the room or locality where the apparatus is situated.

In the drawings Figure 1 is a vertical section of my disinfecting apparatus, and Fig. 2 is a cross-section at the line *x x*.

The case is composed of the back *a*, of sheet metal or wood, and adapted to be fastened to a wall or other convenient place, and the semi-cylindrical cover *b* is hinged to the back *a* at *b'*. This cover *b* I prefer to make of sheet metal, tapering or conical at the ends, and the lower half perforated to permit the discharge of the vapor of the disinfecting material, which generally falls. The hinged cover *b* may be secured to the back by a catch or by a hasp and lock.

I provide a bracket *c* and cup-shaped shelf *c'*, connected to the back *a*, for supporting the vessel holding the disinfecting material. The vessel *d* rests upon the shelf *c'* and is open at the upper end and provided with a flanged

edge *d'*, and this vessel *d* is to be partially filled with sponge or similar absorbent material.

e represents a perforated disk of metal, adapted to rest upon the vessel *d*, and a tubular holder *e'* is connected to the center of the disk *e*. This disk *e* sets within the flanged edge *d'* of the vessel *d*.

The disinfecting material is contained within the vessel *g*, which is provided with a screw-cap for its introduction, and this vessel *g* has a stem *f*, which rests in the holder *e'* and the parts are supported by the disk *e*, vessel *d*, and bracket and shelf. The stem *f* is perforated with one or more very small holes at *f'* and is wrapped above the holder *e'* with wicking *h*, tied on or otherwise fastened.

In use the disinfecting material is gradually discharged from the vessel *g* through the small holes *f'* into the wicking *h*, which it saturates and from which it gradually drips into the vessel *d* through the perforated disk *e*. The sponge or other absorbent material in the vessel *d* takes up the disinfecting material and it evaporates therefrom, and the vapor passes out of the case or holder through the perforated cover *b* into the rooms or apartments to be disinfected.

My improved disinfectant is small and compact. It is inexpensive and efficient.

I claim as my invention—

1. In a disinfecting device, the combination, with a back and cover forming the containing-case and a bracket connected to the back, of a vessel having a perforated base or stem and adapted to hold disinfecting material and from which it is gradually discharged, a wrapping of fibrous absorbent material around said stem, and an open-mouthed vessel below and adapted to support the vessel holding disinfecting material and to receive absorbent material, substantially as set forth.

2. In a disinfecting device, the combination, with the back and cover forming a containing-case and the bracket connected to said back, of a vessel having a perforated base or stem and adapted to hold disinfecting material and from which it is gradually discharged, a wrapping of fibrous absorbent material around said stem, an open-mouthed vessel adapted to hold sponge or other absorbent material, and

a disk and holder to rest on said latter vessel and support the vessel holding disinfecting material, substantially as set forth.

3. In a disinfecting device, the combination,
5 with the back *a* and the hinged cover *b*, in part perforated, and the bracket *c* and shelf *c'*, of a vessel *d*, open at the upper end, supported by the shelf *c'* and containing sponge or other absorbent material, the perforated
10 disk *e* and tubular holder *e'*, supported by the vessel *d*, the vessel *g* for holding disin-

fecting material, its perforated stem or base *f*, resting in the holder *e'*, and the wrapping of wicking *h* or other absorbent material, substantially as set forth.

Signed by me this 28th day of May, A. D. 1891.

ALEXANDER S. FORCE.

Witnesses:

GEO. T. PINCKNEY,
WASHINGTON FORCE.