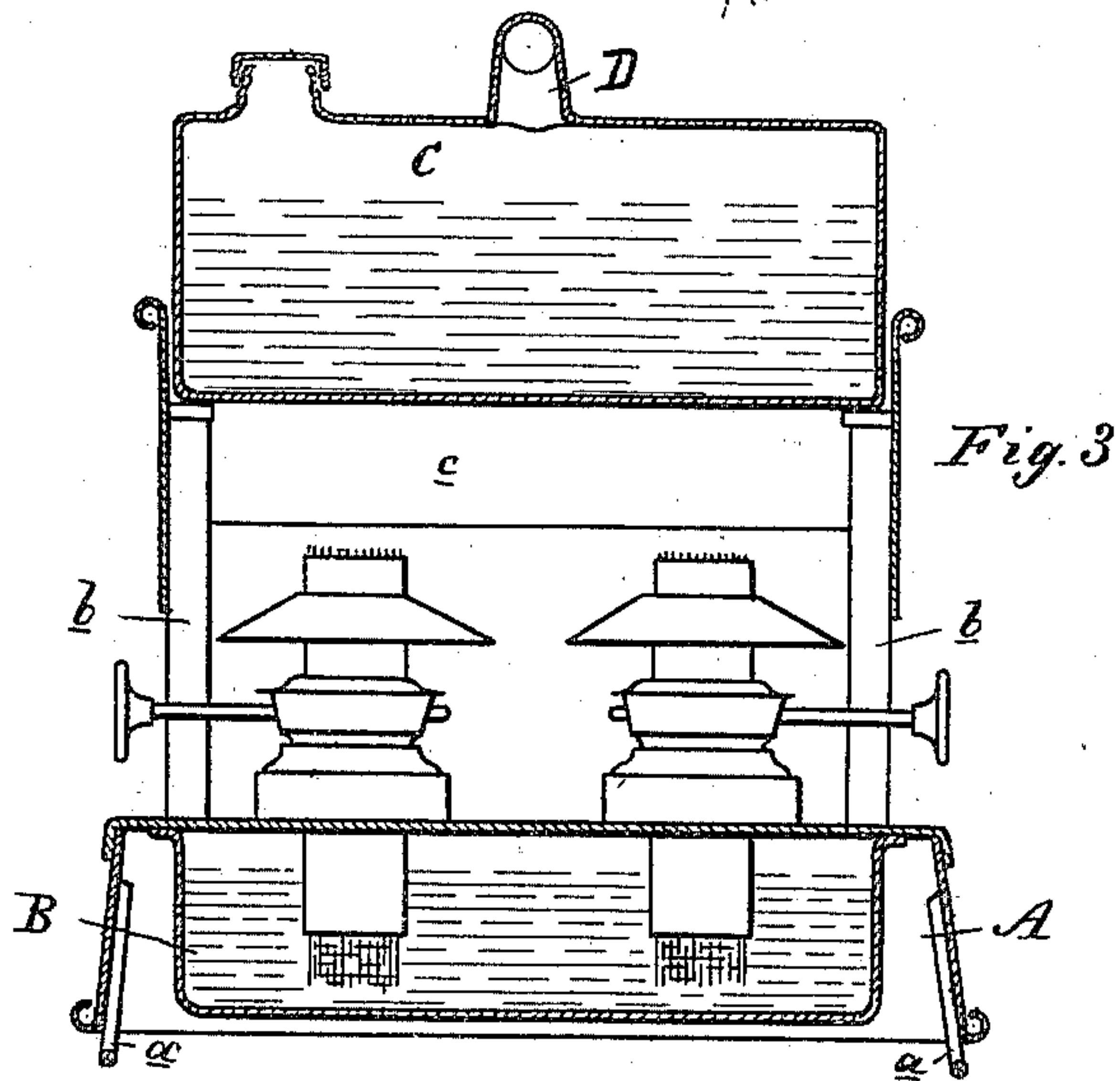
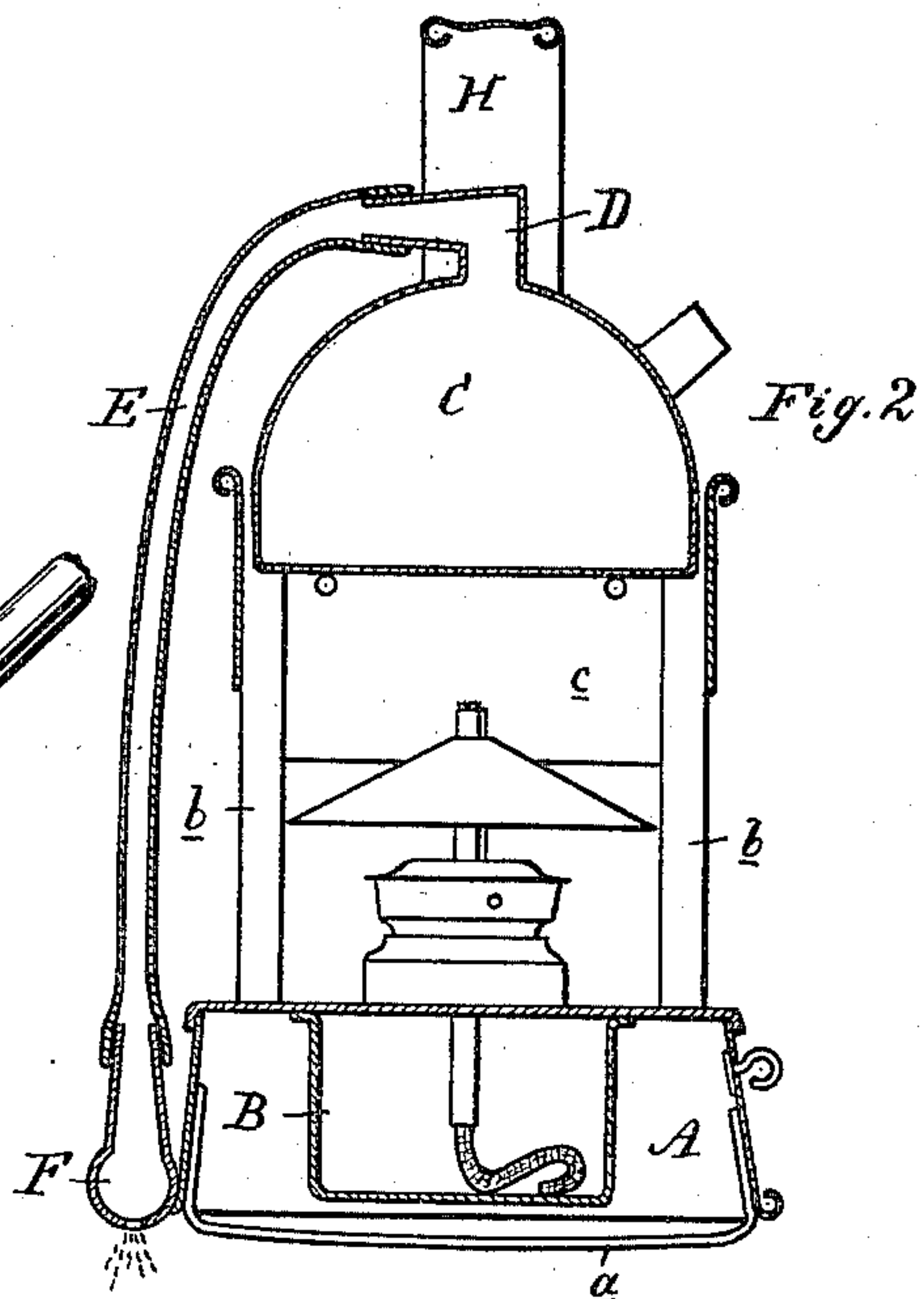
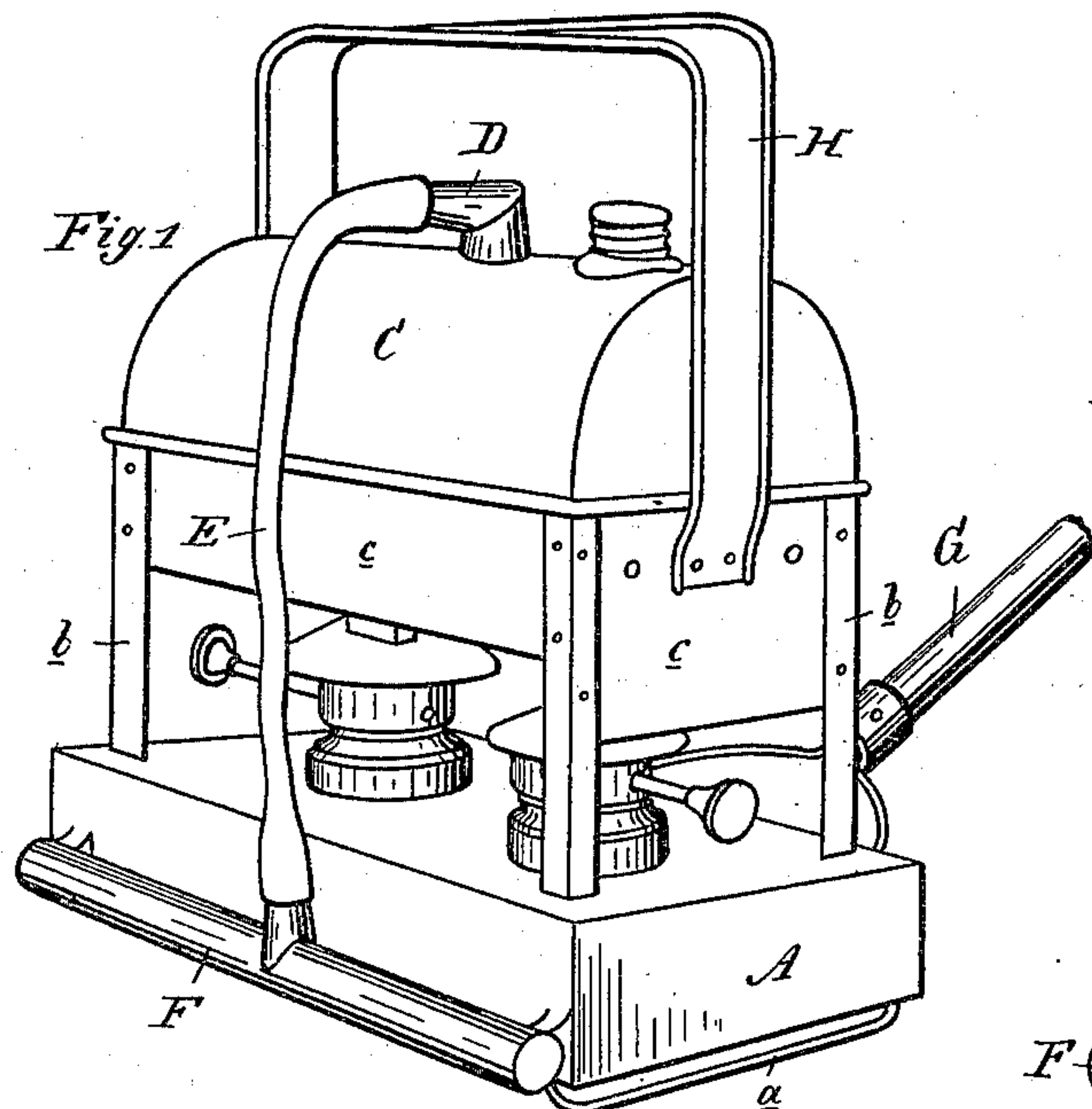


(No Model.)

A. A. GRIFFIN.
VERMIN EXTERMINATOR.

No. 343,902.

Patented June 15, 1886.



Attest:
John Schuman.
Edmond Scully.

Inventor:
Albert A. Griffin.
by his Atty
Thos. S. Sprague

UNITED STATES PATENT OFFICE.

ALBERT A. GRIFFIN, OF ROSCOMMON, MICHIGAN.

VERMIN-EXTERMINATOR.

SPECIFICATION forming part of Letters Patent No. 343,902, dated June 15, 1886.

Application filed February 25, 1886. Serial No. 193,112. (No model.)

To all whom it may concern:

Be it known that I, ALBERT A. GRIFFIN, of Roscommon, in the county of Roscommon and State of Michigan, have invented new and useful Improvements in Vermin-Exterminators; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, which form a part of this specification.

This invention relates to certain new and useful improvements in the construction and operation of vermin-exterminators of that class wherein noxious liquids are converted into vapor under an increased temperature over that of their normal condition, and such vapor is employed for destroying the insects.

The invention consists in the peculiar construction of the various parts and their combinations to produce the desired results, as more fully hereinafter described.

Figure 1 is a perspective view of my improved apparatus. Fig. 2 is a vertical longitudinal section through the same, and Fig. 3 is a vertical cross-section of Fig. 2.

In the accompanying drawings, A represents a base having a top and four sides, but entirely open at bottom, and within this base is secured a suitable lamp, B, the burner of which projects through the top thereof. Wire runners *a* are secured to the bottom of this base—one at each end thereof—to raise the same clear from the floor and allow the device to be drawn as upon a sled. Above the base and upon suitable standards, *b*, thereof, there is supported a tank, C, and around the lower end of such tank, and secured to the standards, there is a curtain, *c*, to confine the heat from the lamp under the bottom of the tank. The tank and the lamp are both provided with the ordinary means for filling. From the top of the tank projects the nozzle D, and a pipe, E, connects such nozzle with the horizontal pipe F, closed at its ends and secured to the base on a line with its bottom edge, or nearly so, such latter-named pipe having a series of perforations in the lower part of its periphery discharging directly downward, so that the heated volatilized products of the tank are carried to the pipe F through the pipe E, and

are thence discharged downward upon the floor or carpet, to the destruction of the insects or moths there found, as the device is drawn over the place. To the front side of the base of this device there is pivotally secured a handle or pole, G, and to facilitate the transportation of the device when not in use a bail, H, is provided, as shown.

In practice the operator partially fills the tank with, for instance, naphtha, and lights the lamp below, which has been properly trimmed for that purpose. As soon as the heat applied compels such naphtha to be converted into volatile steam, the operator sets the device upon the floor or carpet, and drawing the same slowly over that portion thereof where insects and moths are to be found the latter are destroyed by such naphtha vapor passing through the perforations in the lower pipe. Should it be desired to use this utensil for killing the vermin in bedsteads or in cracks in the wall, the lower end of the pipe E is detached from the pipe F, and the device lifted by the bail with one hand. The operator then guides the free end of the pipe to discharge into the crevices where such insects are found, and the free end of the pipe, when in use in this way, may be provided with a nozzle, although the latter is not necessary.

I attach importance to my pipe F, permanently secured to the base and perforated on its under side, whereby as the device is drawn along the floor the vapor is distributed on the floor without any care on the part of the operator. I also deem it important that the pipe E be detachable from the pipe F, so that the device can readily be used for killing vermin in cracks in the wall or other places.

What I claim as my invention is—

1. A device for the purposes described, consisting of a base supporting a lamp, a vapor-generating apparatus, and a perforated pipe secured to said base, and through which said vapor is discharged, as set forth.

2. The combination, with the base supporting the lamp, of a tank supported above said base, a horizontal perforated pipe, as F, rigidly secured to said base, and a pipe connect-

ing said tank and perforated pipe, substantially as and for the purposes specified.

3. The base A, supporting the lamp, and the tank C, provided with nozzle D, combined with the perforated pipe F, secured to
5 said base near its bottom edge, and the pipe E, connecting said nozzle and perforated pipe

and detachable from the latter, substantially as and for the purposes specified.

ALBERT A. GRIFFIN.

Witnesses:

H. S. SPRAGUE,
EDMOND SCULLY.