

A. S. DODD & I. C. ANDREWS.
FIRE EXTINGUISHER.

No. 184,067.

Patented Nov. 7, 1876.

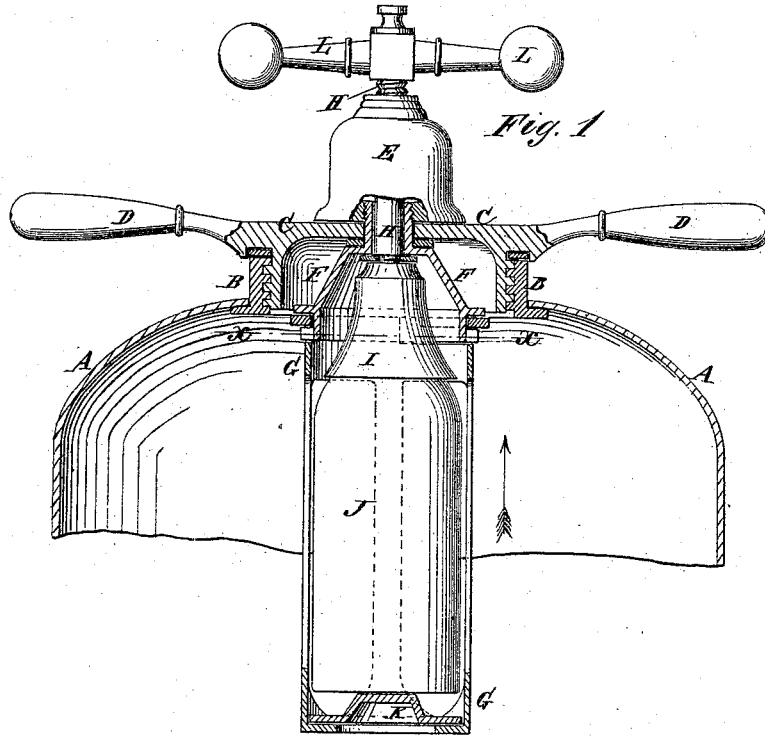


Fig. 1

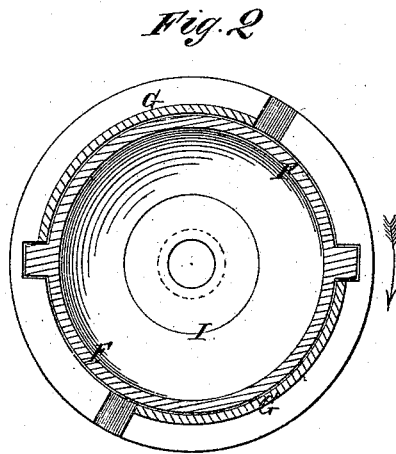


Fig. 2

WITNESSES:

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UNITED STATES PATENT OFFICE.

AMZI S. DODD AND ISAAC C. ANDREWS, OF NEW YORK, N. Y., ASSIGNORS
TO HOME FIRE EXTINGUISHER COMPANY, OF SAME PLACE.

IMPROVEMENT IN FIRE-EXTINGUISHERS.

Specification forming part of Letters Patent No. 184,067, dated November 7, 1876; application filed
April 18, 1876.

To all whom it may concern:

Be it known that we, AMZI S. DODD and ISAAC C. ANDREWS, of the city, county, and State of New York, have invented a new and Improved Fire-Extinguisher, of which the following is a specification:

Figure 1 is a vertical section of the upper part of a fire-extinguisher, to which our improvement has been applied; and Fig. 2 is a detail horizontal section of the same taken through the line *x x*, Fig. 1.

The object of our invention is to improve the construction of fire-extinguishers to enable the gas-generating ingredients to be readily introduced, kept separate for any desired length of time, and then brought together, when required, by mechanical means applied from the outside of the vessel.

The invention will first be described in connection with drawing, and then pointed out in the claims.

In the drawing, A represents the can or cylinder of a fire-extinguisher, in the top of which is formed a hole, into which is inserted, from the inside of the said can or vessel, a female screw, B. The screw B has an outwardly-projecting flange formed around its inner end, which rests against, and is soldered to or otherwise secured to, the top of the can or vessel A, against which it rests. C is a male screw, which screws into the screw B, and has a packing placed around it, which is pressed against the outer end of the screw B, as shown in Fig. 1. To the top of the male screw C are attached, or upon it are formed, arms or lever handles D for convenience in turning it in and out. To the top of the male screw C, upon the outer side, is attached a dome, E, and to said top, upon the inner side, is attached an inverted cup, F.

One of the parts E F may have a neck formed upon it to pass through a hole in the top of the male screw C, and screw into the outer side of said parts, clamping the said top between them; or the three parts may be connected in any other convenient and substantial manner.

The inverted cup F may be formed solidly with the top of the screw C, and in the form of a downwardly-projecting flange, if desired. The lower part or mouth of the cup F is cylindrical to fit into the upper end of the rack or cage G, and has a ring-flange formed upon

it to limit the upward movement of the said cage, and has lugs formed upon it to enter right-angled slots in the upper part of the cage G, so as to secure the said cage to its supporting-cup by a bayonet-catch. H is a stem or shaft, which passes up through the top of the screw C, and through the top of the dome E, and has a screw-thread cut upon its upper part to fit into a screw-thread cut in the hole in the top of the dome E. To the lower end of the stem H, within the cup F, is attached a bell, I, to fit over the neck of a bottle, J, and rest upon or near the shoulders of said bottle. The bottom of the bottle J rests upon a boss, K, formed upon the bottom of the cage G, or upon a small plate placed upon said bottom, so as to break the said bottle as the bell I is pushed down against it, by turning the stem H downward. The stem H is turned downward by a lever-handle, L, attached to its upper end, and is again raised when the lever-handle L is released by a spring connected with said stem and secured in the dome E. This spring is not shown in the drawing.

This construction renders it impossible to break a charged bottle when placing it in place from forgetting to raise the stem H and bell I after breaking a bottle. Packing is placed between the bell I and the cup F, and between the cup F and the top of the screw C, to prevent any fumes or vapors from escaping through said joint.

Having thus described our invention, what we claim as new, and desire to secure by Letters Patent, is—

1. The combination of the female screw B, provided with a flange upon the outer side of its inner end, and the male screw C, provided with a lever-handle, D, and a dome, E, with the top of a can or vessel, substantially as herein shown and described.

2. The combination, with internally-threaded dome E, threaded stem H, and lever L, of the bell I, bottle J, and convex-bottomed cage G K, substantially as and for the purpose specified.

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Witnesses:

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