

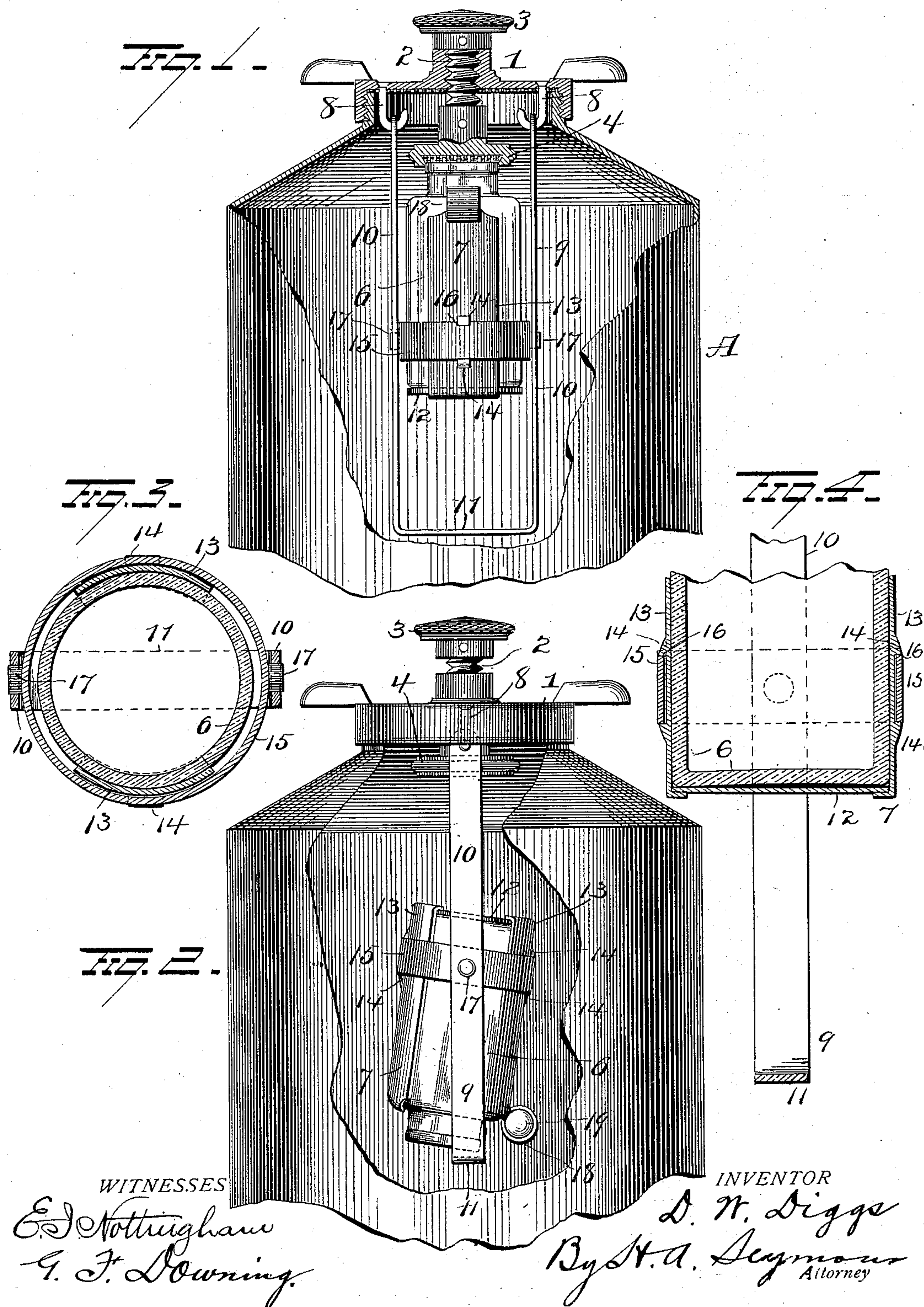
No. 651,836.

Patented June 19, 1900.

D. W. DIGGS.
FIRE EXTINGUISHER.

(Application filed Nov. 21, 1899.)

(No Model.)



WITNESSES

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DABNEY W. DIGGS, OF NEW YORK, N. Y.

FIRE-EXTINGUISHER.

SPECIFICATION forming part of Letters Patent No. 651,836, dated June 19, 1900.

Application filed November 21, 1899. Serial No. 737,780. (No model.)

To all whom it may concern:

Be it known that I, DABNEY W. DIGGS, a resident of New York city, in the county of New York and State of New York, have invented certain new and useful Improvements in Fire-Extinguishers; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to an improvement in fire-extinguishers, and more particularly to chemical-mixing fire-extinguishers, the object of the invention being to provide an extinguisher with an acid-receptacle-supporting frame provided on one side with a weight to quickly upset it to mix the chemicals when the receptacle is released from its upright supporting mechanism.

With this object in view the invention consists in certain novel features of construction and combinations and arrangements of parts, as will be more fully hereinafter described, and pointed out in the claim.

In the accompanying drawings, Figure 1 is a view in section illustrating my improvements. Fig. 2 is a view showing the acid-bottle inverted, and Figs. 3 and 4 are enlarged views of details of construction.

A represents a receptacle adapted to contain alkaline or other liquid, provided at its upper end with an opening closed by a removable cap 1, having a central screw-threaded opening for the passage of a screw 2, the latter provided on its upper end with a suitable milled head or knob 3 and on its lower end with a stopper 4 for an acid-bottle 6, preferably of glass, mounted in a frame 7, as will be more fully hereinafter explained.

The cap 1 is provided at diametrically-opposite points with downwardly-projecting rods 8, curved inwardly and upwardly at their lower ends to form hooks on which a bracket 9 is pivotally supported. The bracket 9 comprises a metal bar bent at two points between its ends to form two parallel arms 10, pivotally supported on the rods 8, and a connecting-bar 11 at the lower ends of said arms 10.

The arms 10 are provided at a point between their ends with aligned openings forming bearings for pivotally supporting the frame 7. The frame 7 comprises a circular base 12, to which are secured two parallel upwardly-extending concavo-convex spring-

plates 13, provided near their lower ends on their outer face with enlargements 14, between which is mounted a horizontally-disposed ring 15, surrounding said plates 13. The ring 15 is provided with a notch or notches 16 for the reception of one of the enlargements 14 to prevent independent movement of the ring, and said ring is made with trunnions 17, mounted in the openings in the arms 10.

The upper end of one plate 13 is contracted and bent to form a loop or ring 18, adapted to inclose a weight 19, of lead or other heavy material.

It will thus be seen that when the stopper 4 is raised from the bottle the weight 19 will quickly overbalance the bottle and turn the same upside down and release the acid, which will mix with the alkaline to form a fire-extinguishing agent, and owing to the firm hold of the frame 7 on the bottle will prevent the displacement of said bottle even when inverted.

Any approved means (not shown) may be employed for directing the extinguishing agent on the flame.

Various slight changes might be resorted to in the general form and arrangement of the several parts described without departing from the spirit and scope of my invention, and hence I would have it understood that I do not wish to limit myself to the precise details set forth, but consider myself at liberty to make such slight changes and alterations as fairly fall within the spirit and scope of my invention.

Having fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

In a fire-extinguisher, the combination with a receptacle, of pivoted arms, a frame pivoted below its center between said arms and adapted to support a bottle, said frame comprising a base, parallel spring-plates secured to said base, a ring surrounding said plates, trunnions on said ring mounted in bearings in the arms and a weight carried by one of said plates.

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

DABNEY W. DIGGS.

Witnesses:

AUGUST GALENBECK,
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