

(No Model.)

M. MACELREE.
AUTOMATIC LAMP EXTINGUISHER.

No. 516,868.

Patented Mar. 20, 1894.

Fig. 1.

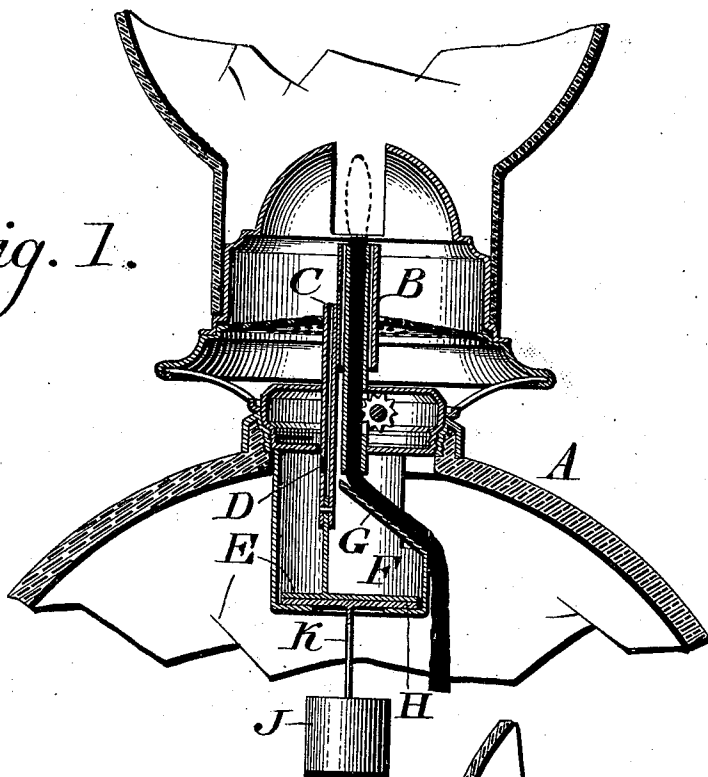
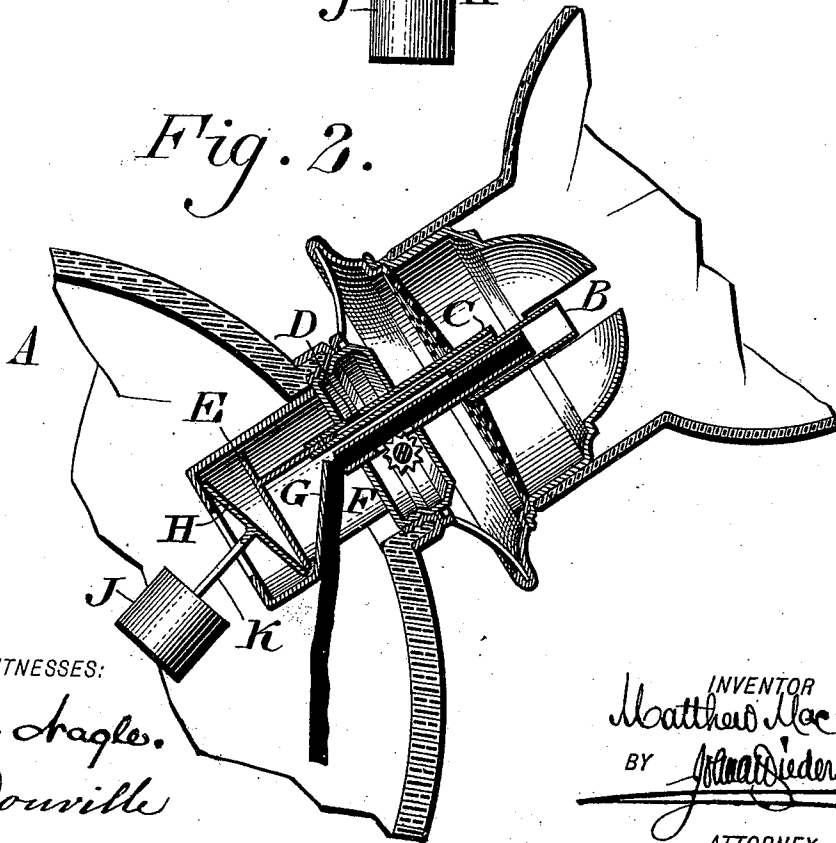


Fig. 2.



WITNESSES:

G. H. Tragle.
L. Douville

INVENTOR
Matthew MacElree
BY *John Diederich*
ATTORNEY.

UNITED STATES PATENT OFFICE.

MATTHEW MACELREE, OF PHILADELPHIA, PENNSYLVANIA.

AUTOMATIC LAMP-EXTINGUISHER.

SPECIFICATION forming part of Letters Patent No. 516,868, dated March 20, 1894.

Application filed May 17, 1893. Serial No. 474,499. (No model.)

To all whom it may concern:

Be it known that I, MATTHEW MACELREE, a citizen of the United States, residing in the city and county of Philadelphia, State of Pennsylvania, have invented a new and useful Improvement in Automatic Lamp Extinguishers, which improvement is fully set forth in the following specification and accompanying drawings.

My invention consists of a device substantially as described for automatically extinguishing the flame of a lamp in the event of overturning of the latter.

Figures 1 and 2 represent vertical sections of a lamp extinguisher embodying my invention.

Similar letters of reference indicate corresponding parts in the two figures.

Referring to the drawings: A designates portion of a lamp, and B designates a sliding sleeve on the wick tube thereof. Connected with said sleeve is a head E, which occupies the chamber F below the wick tube. In the present case, the vapor-discharging tube C is employed as the medium of connection of the head E and sleeve B, said tube having a vent D therein for evident purposes. On the side of the chamber F is a deflector G, whereby the wick is prevented from entering the chamber F, without however being interfered with in its raising and lowering motions.

In the chamber F below the head E, is a head H, which is seated on the base of said chamber, and has depending from it the weight J, whose sustaining arm K passes freely through an opening in said base and is connected with said head H.

The operation is as follows: When the lamp is in use and ignited, the sleeve B in no wise interferes with the wick tube, but when the lamp is overturned, the weight acts on the head H so as to oscillate the same, moving it

on its seat in the guide F, and causing said head to press the head E, whereby the sleeve B is pushed over the wick tube, so as to inclose the ignited portion of the wick, thus quickly extinguishing the flame.

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

1. An automatic lamp extinguisher consisting of a tubular sleeve vertically movable on the wick tube of a lamp and adapted to be raised above the top thereof and having a head connected with its lower end, a head below said sleeve head provided with a depending weight, a chamber in which said heads move having an upper wall forming a deflector for the lamp wick, said parts being combined substantially as described.

2. An automatic lamp extinguisher consisting of a tubular sleeve movable on the wick tube of a lamp and adapted to be raised thereon above the top of the same, a vapor discharging tube connected with said sleeve, a head connected with the lower end of said tube, a head below said sleeve head having a depending weight, and a chamber in which said heads move, said parts being combined substantially as described.

3. An automatic lamp extinguisher consisting of the sleeve B movable on the wick tube of a lamp, the vapor tube C connected with the sleeve B, and having the head E on its lower end, the head H with arm K and weight J, and the chamber F in which said heads freely move, said chamber having the deflector G for the lamp wick, said parts being combined substantially as described.

MATTHEW MACELREE.

Witnesses:

JOHN A. WIEDERSHEIM,
A. P. JENNINGS.