J. G. HEHR.

Automatic Lamp-Extinguisher.

No. 169,263. Patented Oct. 26, 1875.

Fig. 1

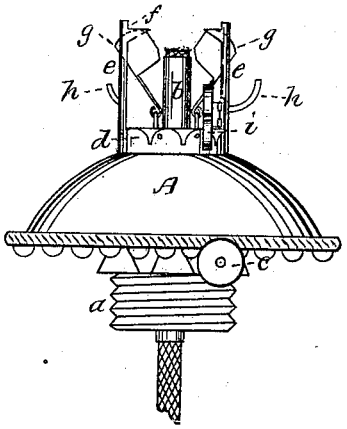


Fig. 2

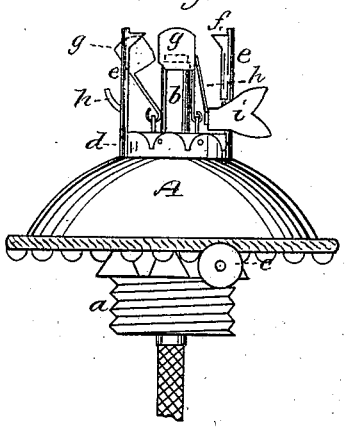


Fig. 3.

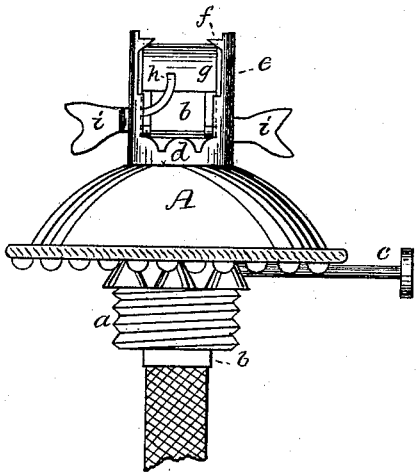
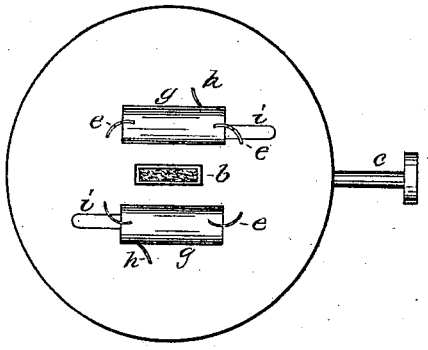


Fig. 4.



WITNESSES
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John G. Hehr,
per Charles H. Fowler
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UNITED STATES PATENT OFFICE.

JOHN G. HEHR, OF SOUTH BEND, INDIANA, ASSIGNOR OF ONE-HALF HIS RIGHT TO JOHN GEORGE RILLING, OF SAME PLACE.

IMPROVEMENT IN AUTOMATIC LAMP-EXTINGUISHERS.

Specification forming part of Letters Patent No. **169,263**, dated October 26, 1875; application filed October 21, 1875.

To all whom it may concern:

Be it known that I, JOHN G. HEHR, of South Bend, in the county of St. Joseph and State of Indiana, have invented a new and valuable Improvement in Automatic Extinguisher for Lamps; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawing is a representation of my invention, showing the position of the extinguisher during the burning of the lamp. Fig. 2 is a view with the extinguisher over the wick after extinguishing the flame; Fig. 3, a side view of the extinguisher; Fig. 4, a plan view of the same.

This invention has relation to automatic extinguishers for lamps; and its object is to provide a device, simple in construction, that can be readily attached to any of the ordinary burners of lamps, and manufactured at a greatly reduced cost over those now in use, while, at the same time, certain and effective in its operation. My invention, therefore, consists, in connection with pivoted or hinged hoods upon each side of the wick-tube, of weighted levers operating independently of said hoods, pivoted and caused to swing or vibrate horizontally, which are brought against the hoods, forcing the same in a vertical position over the lamp-wick to extinguish the flame upon the tipping of the lamp, thereby preventing the possibility of explosion from the careless handling of the lamp, or by its falling upon the floor, or other causes from which accidents originating from explosion so frequently occur.

In the drawings, A is designed to represent the dome, to which the several parts of a lamp-burner are connected, and is provided with a screw-neck, *a*, for securing it to the lamp, also a wick-tube, *b*, and wick-raiser *c*, these parts in construction not differing materially from those in ordinary use. An annular band, *d*, of metal may be stamped, or otherwise formed, with the dome A, or, if desired, made separately and afterward attached thereto by any suitable means. This band *d* is formed with upright stems *e*, having upon their ends projecting points *f*, for attaching the cone over the wick-tube. Hinged or pivoted to the sides of the annular band *d*, are hoods *g*, one upon each side of the wick-tube *b*, and in such relation thereto that when either is brought in a vertical position, it will be directly over and cover the wick. These hoods may be, if desired, simply in form of a flat plate, sufficient in width to cover the wick when brought over the same, and I desire it to be understood as not confining or limiting myself to any particular form of hood, as it may be varied to suit and adapt it to the form of burner used without departing from the principle of my invention. Hinged or pivoted to the upright stems *e*, diagonally opposite each other, are levers *h*, extending upward sufficiently to bear against the hoods *g*, in operating the same. These levers *h* carry suitable weights *i*, so that when the lamp is tipped upon either side in a direction at right angles to the swinging motion of the hoods *g*, the weight will fall or swing around, bringing the lever *h* in contact with and against the hood *g*, causing it to assume a vertical position over the wick and instantly extinguish the flame. When the lamp is tipped in the same direction as the vibrating or swinging motion of the hoods, one or the other, as the case may be, will, by its own weight, fall in the same direction and cover the wick, the weights and levers in this instance not being required to effect the operation of the hoods.

It will be noticed that the weighted levers are hinged or pivoted so that they will have a horizontal motion, making them more sensitive of any slight tipping motion of the lamp, and therefore more effective and certain in their operation, while they are entirely independent and separate from the hoods, and may be removed for adjustment or repairs without interfering with the same.

Having now fully described the construc-

tion and operation of my invention, what I claim as new, and desire to secure by Letters Patent, is—

In a lamp-extinguisher, the pivoted or swinging hoods *g*, in combination with the horizontally-swinging levers *h*, carrying weights *i*, the same operating independently of the hoods, substantially as and for the purpose specified.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

JOHN GEORG HEHR.

Witnesses:
NAT. E. OLIPHANT,
A. C. CASSELL.