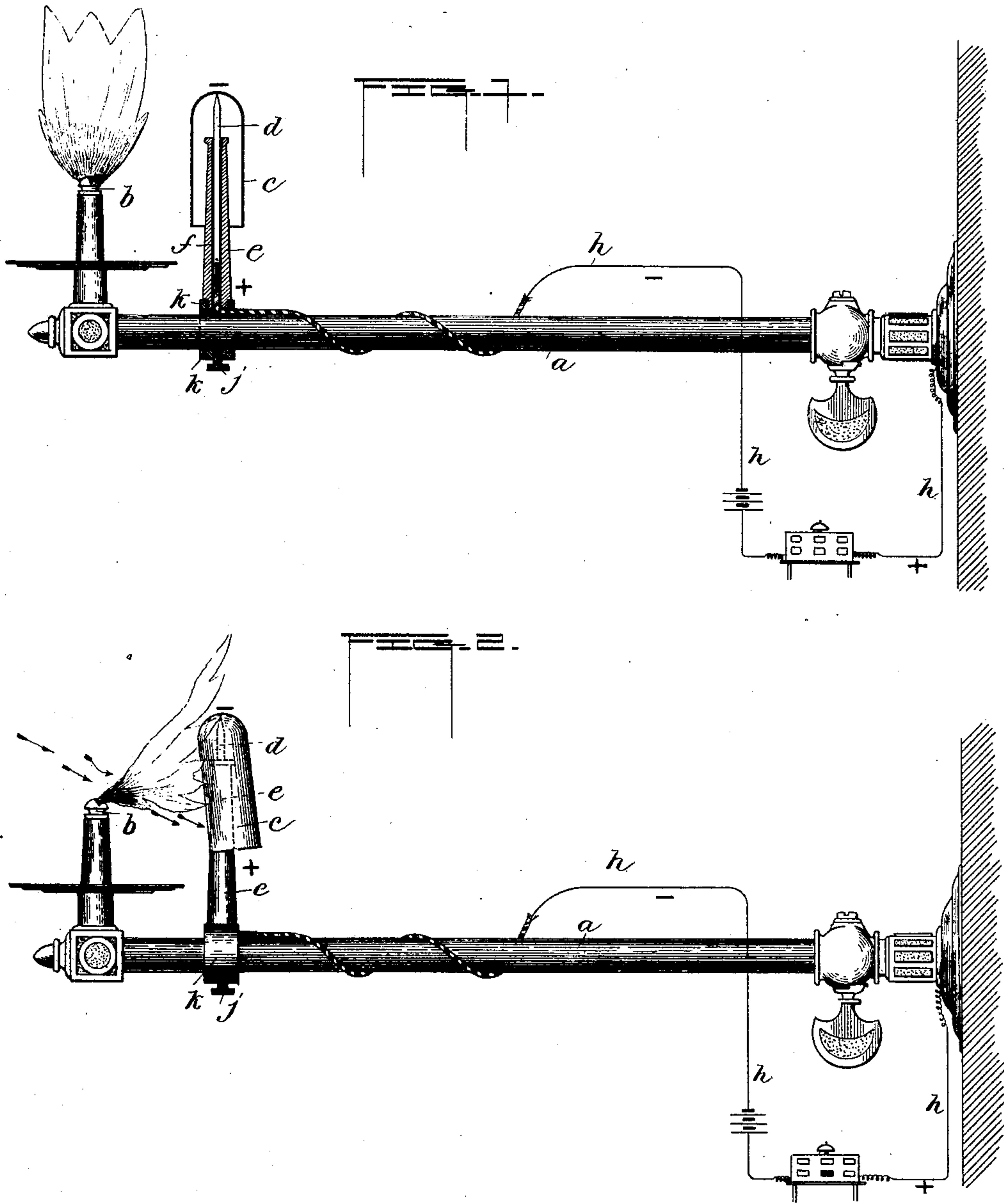


(No Model.)

E. L. HARRISON.
ALARM ATTACHMENT FOR GAS BURNERS.

No. 414,883.

Patented Nov. 12, 1889.



WITNESSES:

L. A. Comerford
J. P. Davis

INVENTOR,

E. L. Harrison
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his Att'y.

UNITED STATES PATENT OFFICE.

EUGENE L. HARRISON, OF ASHLAND, WISCONSIN.

ALARM ATTACHMENT FOR GAS-BURNERS.

SPECIFICATION forming part of Letters Patent No. 414,883, dated November 12, 1889.

Application filed April 24, 1889. Serial No. 308,443. (No model.)

To all whom it may concern:

Be it known that I, EUGENE L. HARRISON, a citizen of the United States, residing at Ashland, in the county of Ashland and State of Wisconsin, have invented certain new and useful Improvements in Alarm Attachments for Gas-Burners; 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 a device for preventing accidental death resulting from blowing out the gas by persons unfamiliar with its use.

The object of my invention is to produce a simple, cheap, and effective arrangement that can be applied to any ordinary gas-burner with facility, and which will sound an alarm when a draft strong enough to put the gas out is created; and my invention is especially constructed for use in hotels and public sleeping apartments, in which so many accidental deaths from suffocation have occurred.

With these ends in view my invention consists in the peculiar features and combinations of parts more fully described hereinafter, and pointed out in the claims.

Figure 1 represents a side view of my complete device, in which it is shown applied to a gas-bracket; and Fig. 2, a similar view representing the device in operation.

The reference-letter *a* represents an ordinary gas-bracket, provided with the usual burner *b*. In close proximity to the burner is located a vibratory circuit-closer *c*, poised upon a metallic pivot *d*, forming the positive pole of an electric alarm-circuit *h*. This pivot is seated within a hollow metallic post *e*, forming the negative pole of said circuit. The post and pivot are insulated from each other by a bushing *f*, composed of non-conducting material. The post is rigidly secured to and mounted upon a metallic ring *k*, adapted to embrace the gas-bracket, being held thereon and electrically connected thereto by means of a set-screw *j*. The wire forming the alarm-circuit *h* passes through the top of the ring where the post is joined to it, and thence to any annunciator or alarm.

The circuit-closer *c* consists of a light metallic cap having a length sufficient to overhang the post and come in contact therewith when violently vibrated, and it must be in such juxtaposition to the burner as to be effectively actuated by any draft sufficient to extinguish the gas. When a person attempts to blow out the gas, the draft thus created will cause the circuit-closer to swing back away from the flame and into electrical contact with the post *c*, thereby closing the circuit *h* and sounding an alarm, or actuating a hotel or other annunciator, as will be seen in Fig. 2.

As nearly every room in a hotel is provided with a push-button, it will be seen that my device can be applied to a gas bracket or burner and connected with said button at slight expense.

Although I have shown a cup-shaped circuit-closer poised upon a pivot, yet it is evident that this construction is only one of many ways of carrying out my invention; hence I do not confine myself to the form or particular arrangement shown, but consider myself entitled to all such variations as come within the spirit of my invention.

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

1. In an electric alarm attachment for gas-burners, a vibratory circuit-closer located in such juxtaposition to the burner as to be actuated by a draft against the latter, in the manner and for the purpose described.

2. In combination with a gas-burner, a metallic post electrically connected to the burner-bracket and constituting one pole or terminus of an electric circuit, and a circuit-closer poised upon a pivot seated within said post and insulated therefrom, said closer being so arranged as to make connection between said post and pivot, in the manner and for the purpose set forth.

3. In an electric alarm attachment for gas-burners, a vibratory circuit-closer located in such juxtaposition to the burner as to be actuated by a draft against the latter, in combination with an alarm-circuit, substantially as described,

4. The combination of the gas-bracket provided with a burner, a metallic post elec-

trically attached to the bracket, a metallic
pivot insulated therefrom, an alarm-circuit
connected with the pivot and post, and a cir-
cuit-closer poised upon the pivot and over-
5 hanging the post, but normally out of contact
therewith, for the purpose substantially as de-
scribed.

In testimony whereof I affix my signature
in presence of two witnesses.

EUGENE L. HARRISON.

Witnesses:

R. C. HEYDLAUFF,
H. P. PADLEY.