

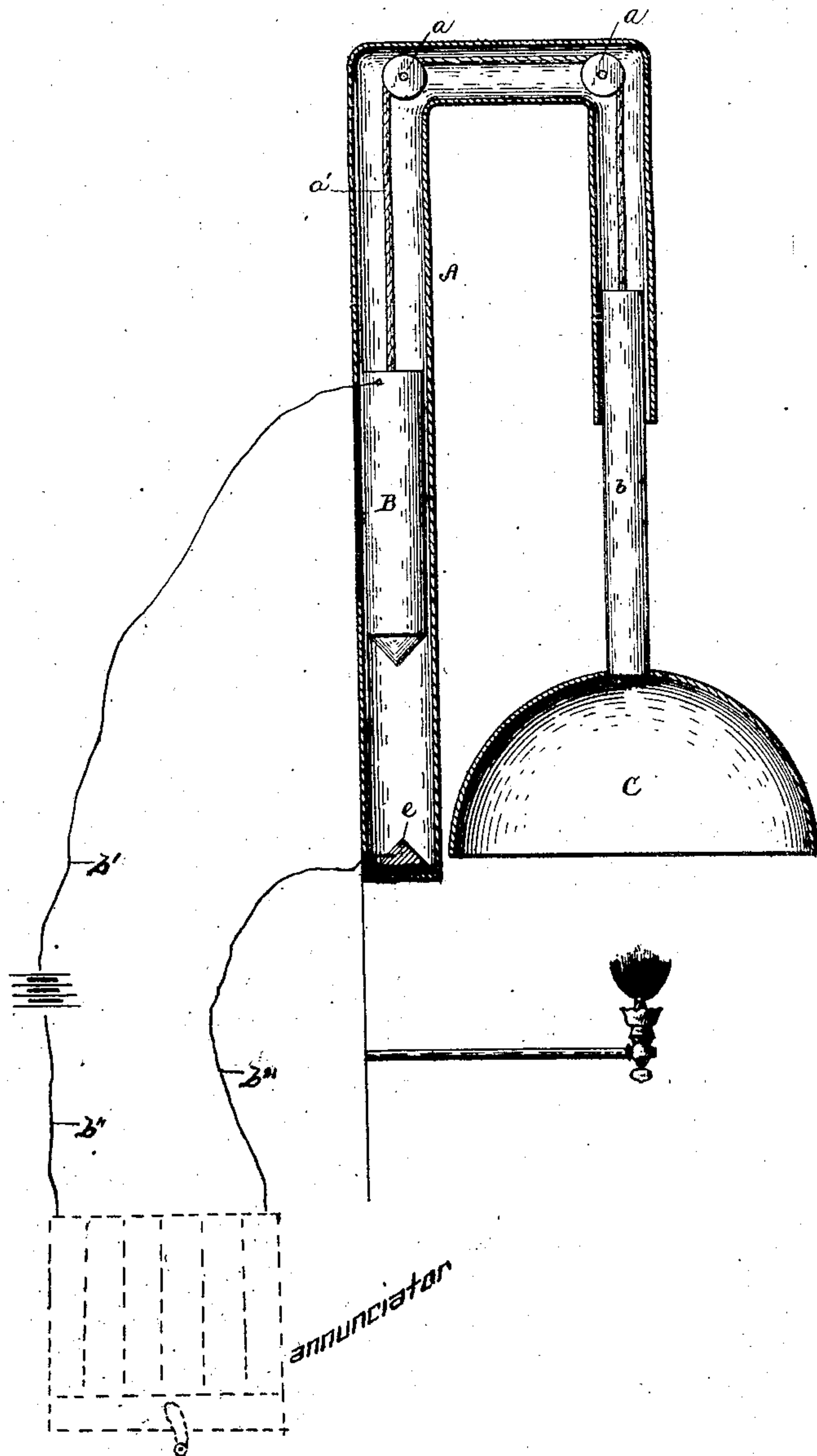
(No Model.)

W. G. JOERKE.

ALARM.

No. 373,073.

Patented Nov. 15, 1887.



Witnesses  
John Anders, Jr.  
[Signature]

Inventor  
William G. Joerke,  
By his Attorney  
Patrick A. Farrell,

# UNITED STATES PATENT OFFICE.

WILLIAM G. JOERKE, OF NEW YORK, N. Y.

## ALARM.

SPECIFICATION forming part of Letters Patent No. 373,073, dated November 15, 1887.

Application filed March 3, 1887. Serial No. 229,663. (No model.)

*To all whom it may concern:*

Be it known that I, WILLIAM G. JOERKE, a citizen of the United States of America, residing at New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Alarms or Indicators, of which the following is a specification, reference being had therein to the accompanying drawing.

10 This invention pertains to certain new and useful improvements in alarms or indicators; and it consists in the detailed construction, combination, and arrangement of the parts, substantially as hereinafter fully set forth, and  
15 particularly pointed out in the claims.

In the accompanying drawing, the figure is a longitudinal sectional elevation of my invention, showing diagrammatically an annunciator, battery, and electric circuit.

20 ~~The object of my invention is to provide~~ means for indicating or giving alarm when gas is escaping from a gas burner or fixture by reason of the light having been inadvertently extinguished while the turning-plug is  
25 open; and to this end I employ an approximately inverted-L-shaped tube or pipe, A, secured in close proximity to the gas burner or fixture, so as to cause the upper shorter vertical end thereof to be on a line with the burner  
30 proper. Over suitable pulleys, *a a*, in this L-shaped tube or pipe is passed a rope or cable, *a'*, which at one end is connected with a weight, B, to equally balance a connecting-  
35 bar, *b*, secured to the other outer end of said rope or cable. To the weight B is connected one end of an electric wire, *b'*, connected at its other end to a battery, said wire being passed through a long narrow slit in the tube or pipe  
40 A, the walls of which are covered with suitable non-conducting material, as customary. From the battery referred to another wire, *b''*, is connected to an annunciator. (Shown diagrammatically in the accompanying drawing.) This bar *b* projects out through the  
45 lower open end of the short vertical portion of the tube or pipe, and has rigidly secured to its lower end a semi-spherical chamber, C, open at its lower end, and designed in practice to occupy a position a short distance above  
50 the gas-flame, as shown. When the gas is burning, this semi-spherical chamber forms a shade therefor; but the principal office of

this chamber is called into operation when the light is accidentally extinguished and the gas in escaping ascends to and fills the said  
55 chamber, which will cause the connecting-bar *b* to move upwardly and the weight B to descend, the cord or cable thereof moving over the pulleys secured in the tube or pipe.

In the bottom of the tube or pipe A is disposed a small piece of metal, *e*, with which is  
60 connected one end of an electric wire, *b'*, the other end of which connects with an annunciator or other alarm in the office of the hotel or building where my invention is located,  
65 causing the ringing of a bell when the weight descends and strikes the piece of metal *e*, and thus close the electric circuit, whereby alarm is given of the escape of the gas, and means can  
70 at once be employed to prevent what might otherwise prove a serious accident.

It will be understood that the weight B and contact *e* form terminals of an electric circuit, including an annunciator and battery.

Having thus fully described my invention, 75 what I claim, and desire to secure by Letters Patent, is—

1. The herein-described indicator or alarm, consisting of the inverted-L-shaped tube or pipe, the weight, the cord or cable, the connecting-bar, the semi-spherical chamber, and the electrical wire, all arranged to operate substantially as shown and described.

2. The means herein described of giving alarm of escaping gas, consisting of a semi-spherical chamber, a connecting-bar, and a weight connected by a cord or cable to said bar, and a contact-piece below said weight, said contact-piece and weight forming terminals of an electric circuit, including a battery and an-  
90 nunciator, substantially as set forth.

3. The combination, with the L-shaped tube or pipe and the pulleys secured therein, of the semi-spherical chamber, the connecting-bar secured thereto, the cord or cable, and the weight, all arranged to operate substantially as shown, and for the purpose set forth.

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

WM. G. JOERKE.

Witnesses:

C. VON SCHELIHA,  
WILLY HEINZ.