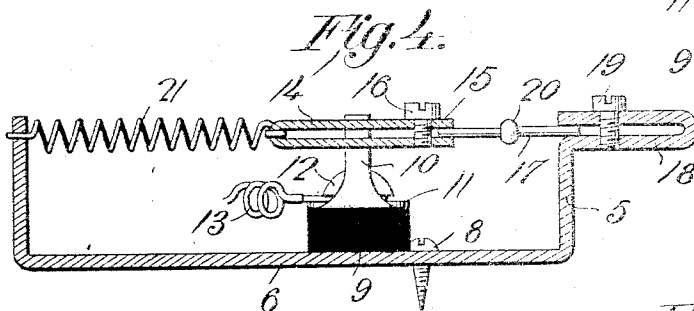
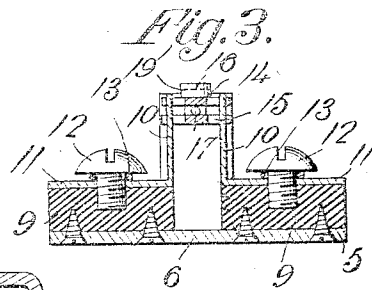
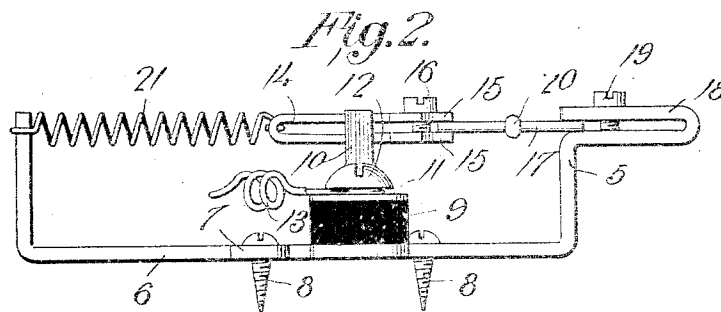
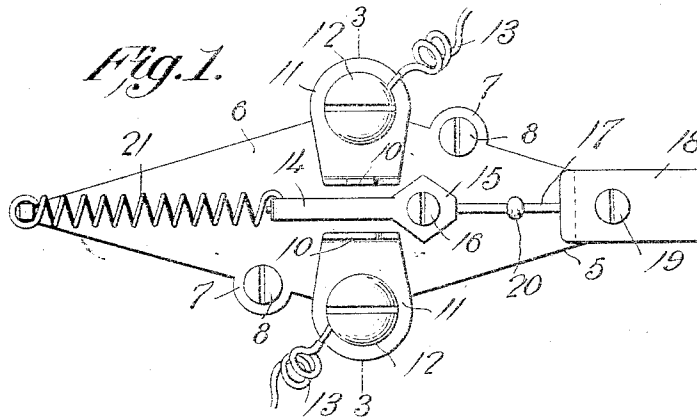


E. REMACLE.
AUTOMATIC ALARM.
APPLICATION FILED JUNE 19, 1912.

1,055,227.

Patented Mar. 4, 1913.



Witnesses

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UNITED STATES PATENT OFFICE.

EDMOND REMACLE, OF NEWARK, NEW JERSEY.

AUTOMATIC ALARM.

1,055,227.

Specification of Letters Patent.

Patented Mar. 4, 1913.

Application filed June 19, 1912. Serial No. 704,680.

To all whom it may concern:

Be it known that I, EDMOND REMACLE, a citizen of the United States, residing at Newark, in the county of Essex and State of New Jersey, have invented new and useful Improvements in Automatic Alarms, of which the following is a specification.

The invention relates to an automatic alarm, and more particularly to the class of fusible circuit closers, for controlling alarms or cut-offs.

The primary object of the invention is the provision of an automatic circuit closer wherein when the gas has been accidentally or intentionally left open in a room or other inclosure, a circuit will be closed for actuating an annunciator or alarm whereby attention may be drawn to the fact and life saved by the person thus notified.

Another object of the invention is the provision of a circuit closer in which a fusible element is arranged and is adapted to close an electric circuit when fused for the positive sounding of an alarm or operating a cut-off whereby an alarm may be sounded on the escape of gas within an inclosure or supply of such gas be automatically shut off to avoid the possibility of accidental asphyxiation or other injury to a person therefrom.

A further object of the invention is the provision of a fusible circuit closer which is simple in construction, thoroughly reliable and efficient in its operation, and inexpensive in manufacture.

With these and other objects in view the invention consists in the construction, combination and arrangement of parts as will be hereinafter more fully described, illustrated in the accompanying drawing, and pointed out in the claim hereunto appended.

In the drawing: Figure 1 is a top plan view of a fusible circuit closer constructed in accordance with the invention. Fig. 2 is a side elevation thereof. Fig. 3 is a sectional view on the line 3—3 of Fig. 1. Fig. 4 is a vertical longitudinal sectional view through the same.

Similar reference characters indicate corresponding parts throughout the several views in the drawing.

Referring to the drawings by numerals, the circuit closer comprises a substantially U-shaped frame 5, the base 6 of which is widened medially thereof and is formed with diagonally arranged perforated ears 7

through which are passed securing members such as screws 8, for the fastening of the frame to a stationary part within an inclosure. Superimposed upon the widened portion of the base 6 on said frame in spaced transverse alinement are insulator blocks 9, the same being formed from fiber or other suitable insulator material and support spaced parallel resilient contact fingers 10 having out-turned portions 11 resting upon the said blocks 9, the out-turned portions 11 being secured upon the blocks by means of binding screws 12 to which are connected the current wires 13 of an electric circuit, which is normally open and has arranged therein, any suitable annunciator or alarm which is adapted to be actuated on the closing of the electric circuit in a manner presently described. Movably arranged between the contact fingers 10 is a wire clamp member 14; the same being formed at one end with clamping cheeks 15, the same being of corresponding size and possesses an area to assure positive engagement with the contact fingers 10 when the clamp is moved in one direction. Engaged in the cheeks 15 of the clamp member 14 is a binding screw 16 which enables one end of the fusible wire 17 to be secured therebetween, while the opposite end of the said wire is engaged in a clamp member 18 integral with and carried by one of the limbs of the frame 5, the said clamping member 18 being provided with a binding screw 19 for the securing of the fusible wire 17 therein. The wire 17 is formed at an intermediate point thereof with a spongy platinum 20 to assure quick fusing of the wire 17 when subjected to a predetermined temperature of heat. Connected to the other limb of the frame 5 is one end of a coiled retractile spring 21 the opposite end of which is connected to the closed end of the clamp member 14, and is designed to move the latter whereby its cheeks 15 will be brought into positive engagement with the contact fingers 10 for the closing of the electric circuit on the severing or fusing of the wires 17, whereby the alarm or annunciator included in the circuit will be actuated for warning a person of the escape of gas or the presence of fire within the inclosure.

The wire clamp 14 when connected with the fusible wire 17 is in a position to sustain the electric circuit open and thereby prevent the actuation of the annunciator or

alarm, but on the fusing of the wire the clamp 14 will engage the contact fingers 10 and thereby close the circuit for the purpose heretofore stated.

- 5 The device can be readily located within a concealed point within the inclosure so as to avoid tampering with the same.

From the foregoing description, taken in connection with the accompanying drawing, 10 it is thought that the construction and operation of the invention will be clearly understood, and therefore, a more extended explanation has been omitted.

What is claimed is:—

- 15 A circuit closer comprising a substantially U-shaped supporting frame, one end of the frame being formed with a clamp, a coiled retractile spring connected with the other end of the frame, insulated blocks 20 fixed to the frame in spaced relation to each

other, resilient contact fingers spaced from each other and having out-turned base portions resting upon the blocks, binding screws passed through the base portions of the fingers and engaged in the blocks and adapted 25 for connection with current wires of an electric circuit, a U-shaped clamp connected to the spring and arranged between the fingers for engagement therewith when moved in one direction and a fusible element secured 30 in the first and last named clamps, and normally holding the said last named clamp out of engagement with the contact fingers.

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

EDMOND REMACLE.

Witnesses:

GEORGE HENRY GEHRING,
JAMES FRANCIS DOWNING.