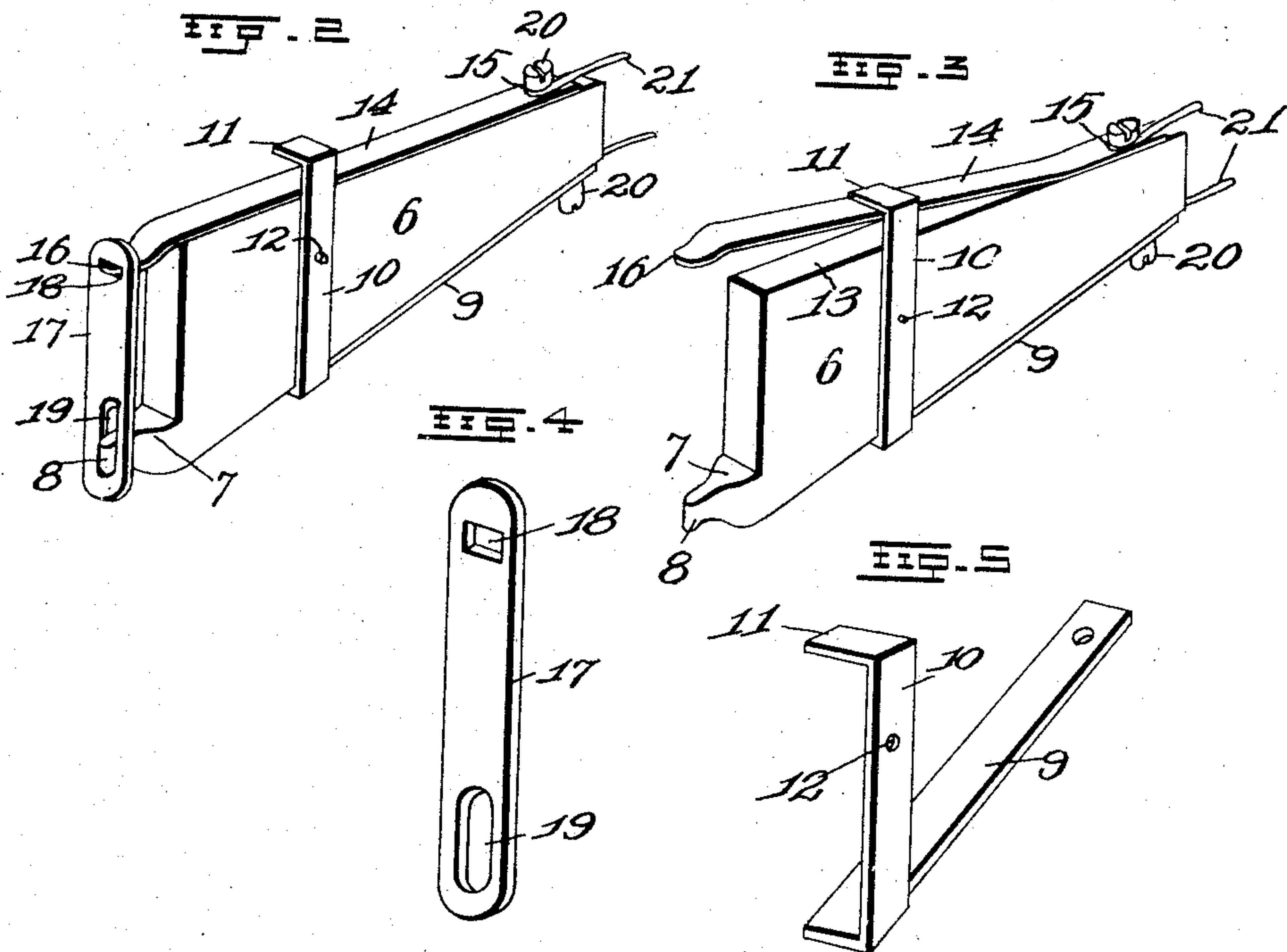
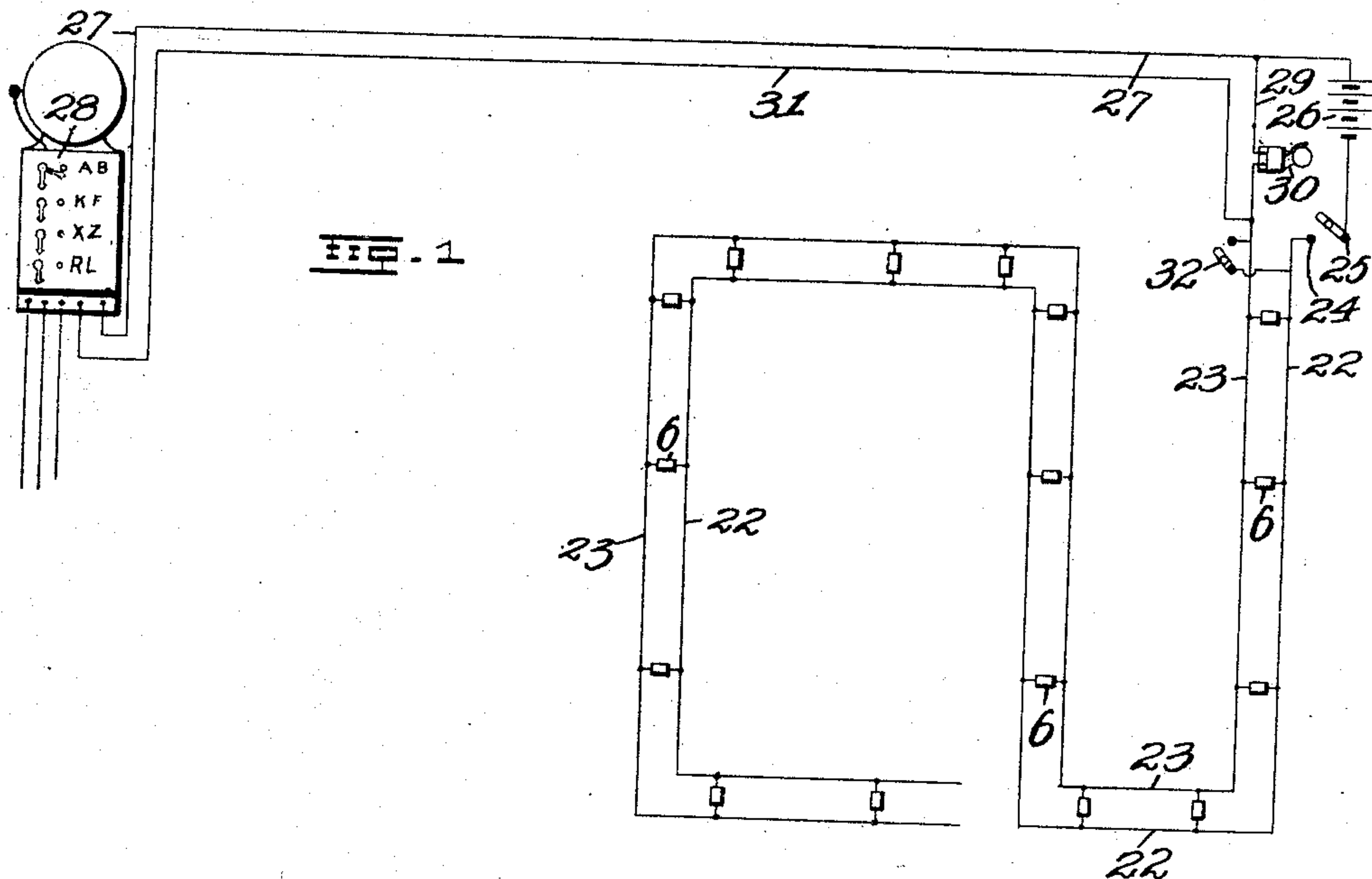


No. 874,250.

PATENTED DEC. 17, 1907.

L. SACKWITZ.
FIRE ALARM AND SIGNALING DEVICE.
APPLICATION FILED MAY 14, 1907.



WITNESSES

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UNITED STATES PATENT OFFICE.

LOUIS SACKWITZ, OF ST. LOUIS, MISSOURI.

FIRE-ALARM AND SIGNALING DEVICE.

No. 874,250.

Specification of Letters Patent.

Patented Dec. 17, 1907.

Application filed May 14, 1907. Serial No. 373,689.

To all whom it may concern:

Be it known that I, LOUIS SACKWITZ, a citizen of the United States, and resident of St. Louis, Missouri, have invented certain new and useful Improvements in Fire-Alarm and Signaling Devices, of which the following is a specification.

This invention relates to improvements in a fire alarm and signaling device, and consists in the novel arrangement, construction, and combination of parts as will be fully hereinafter described and claimed.

The object of my invention is to construct a device to be attached to a system of wiring and arranged with a strip of material which will melt at a certain degree of heat, and automatically make contact to signal the office as well as the nearest fire company and indicate the premises which are on fire.

A further object of my invention is to properly wire a factory, business house or residence, a device being connected to the wiring at intervals apart and so arranged as to complete a circuit and make an alarm when one of the devices is contacted with by a flame or certain degree of heat.

In the drawings: Figure 1 is a diagrammatic view showing a system of wiring with my invention located at intervals apart connected to the wiring. Fig. 2 is a perspective view of the automatic switch-head made use of in carrying out my invention, showing the fuse in position. Fig. 3 is a perspective view of the same with the fuse removed. Fig. 4 is a detail perspective view of the fuse. Fig. 5 is a detail perspective view of one of the contact plates connected to the head.

In the construction of my invention I provide a suitable block or head 6, its one end provided with a projection 7 having a tooth 8. On the edge of the block 6 I secure a contact plate 9 having an extending strip 10 and a right angular projection 11. The strip 10 and the plate 9 are attached to the head in any desirable manner at the point indicated by the numeral 12, the projection 11 extending upwardly and a reasonable distance away from the edge 13 of the block, and on the edge 13 is placed a spring contact strip 14 which is attached to and held to the head at the point indicated by the numeral 15. The free end of the spring contact strip is provided with a tooth 16 on which is placed the fuse 17 and held in position by means of the opening 18 formed in one end thereof. The other end of the fuse is held in

position upon the tooth 8 of the head by means of the elongated aperture 19 and the said fuse is of sufficient length when placed in position upon the tooth 8 and 16 as to hold the spring contact strip 14 in a depressed position so as not to contact with the projection 11 until the said fuse has been removed from the teeth by either a flame or certain degree of heat which will then permit the spring contact strip to complete a circuit by contacting with the projection 11. To the contact plates 9 and 15 are connected, by means of screws 20 or the like, wires 21 and the opposite ends of said wires are connected to the line wires 22 and 23 strung through the building.

By referring to Fig. 1 I show a diagrammatic view of the location of the heads and their connection to the wires and the said wiring in the building is so arranged that the one end of the wire 22 is connected to one pole 24 of a switch 25 which is located in any convenient part of the building and the said switch is to be in closed position while the system is in operative order. This switch is connected to a wire leading to the battery 26 and from the battery is a wire 27 which leads to one pole of an annunciator 28 located in the nearest fire company house. To the wire 27 is connected a wire 29 which leads to an electric bell 30, preferably located in the office of the building in which my device is installed and to the other pole of the electric bell 30 is attached one end of the wire 23. To the wire 23 is connected a wire 31 which leads to the other pole of the annunciator which forms a complete circuit when the switch 25 is thrown in contact whenever the circuit of any of the automatic switch heads is closed. In addition to the automatic switch heads I provide a switch 32, one pole connecting with the wire 23, the other with the wire 22. The object of this switch when closed is to create the alarm whenever a fire is discovered by any of the workmen, and the said switch is located in a convenient position so that access may readily be had thereto, and the said switch has been arranged for convenience to make an alarm whenever a fire is discovered before the fire has an opportunity to come in contact with any one of the automatic switch heads.

When any one of the switch heads throughout the building is operated the alarms both in the office and in the fire company house are simultaneously operated and by means

of the annunciator the fire company can readily ascertain the locality of the conflagration and the building in which it is located.

I have found by experience that it is preferable to construct the fuse of a very thin strip of celluloid which will give readily to a flame or high degree of heat.

Having fully described my invention, what I claim is:

10 A device of the class described, comprising an elongated flattened head, a contact plate located on one edge of the head, a strip provided with a right angular projection connected to one side of the head and formed
15 integral with the contact plate, a spring contact plate located on the opposite edge of the head, a tooth formed on the head, a fuse attached to the tooth and to the spring contact

plate to hold the same out of contact with the right angular projection of the opposite contact plate, both of said contact plates being connected to wiring located in a building and the said heads arranged at intervals apart throughout the building to automatically create an alarm in the office as well as the fire company house whenever one of the fuses becomes detached from the head, substantially as specified. 20 25

In testimony whereof, I have signed my name to this specification, in presence of two subscribing witnesses. 30

LOUIS SACKWITZ.

Witnesses:

ALFRED A. EICKS,
WALTER C. STEIN.