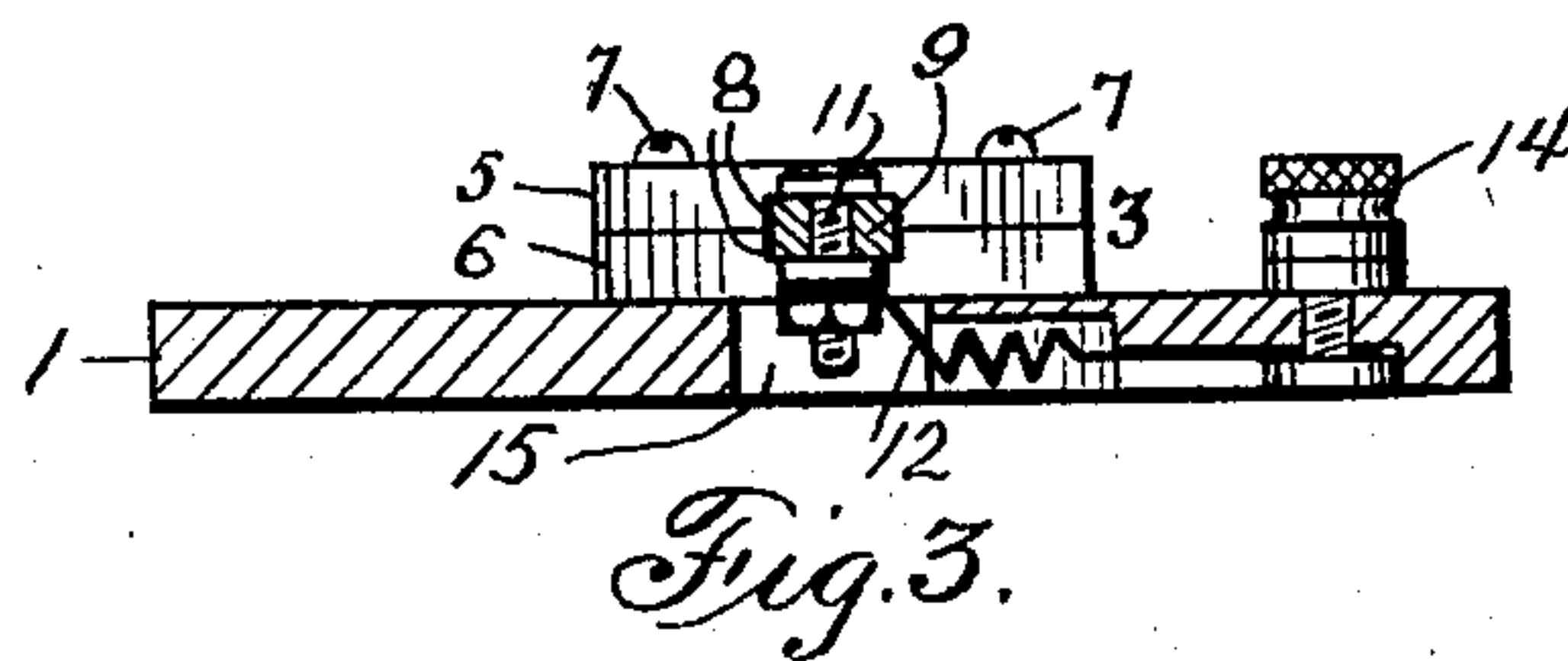
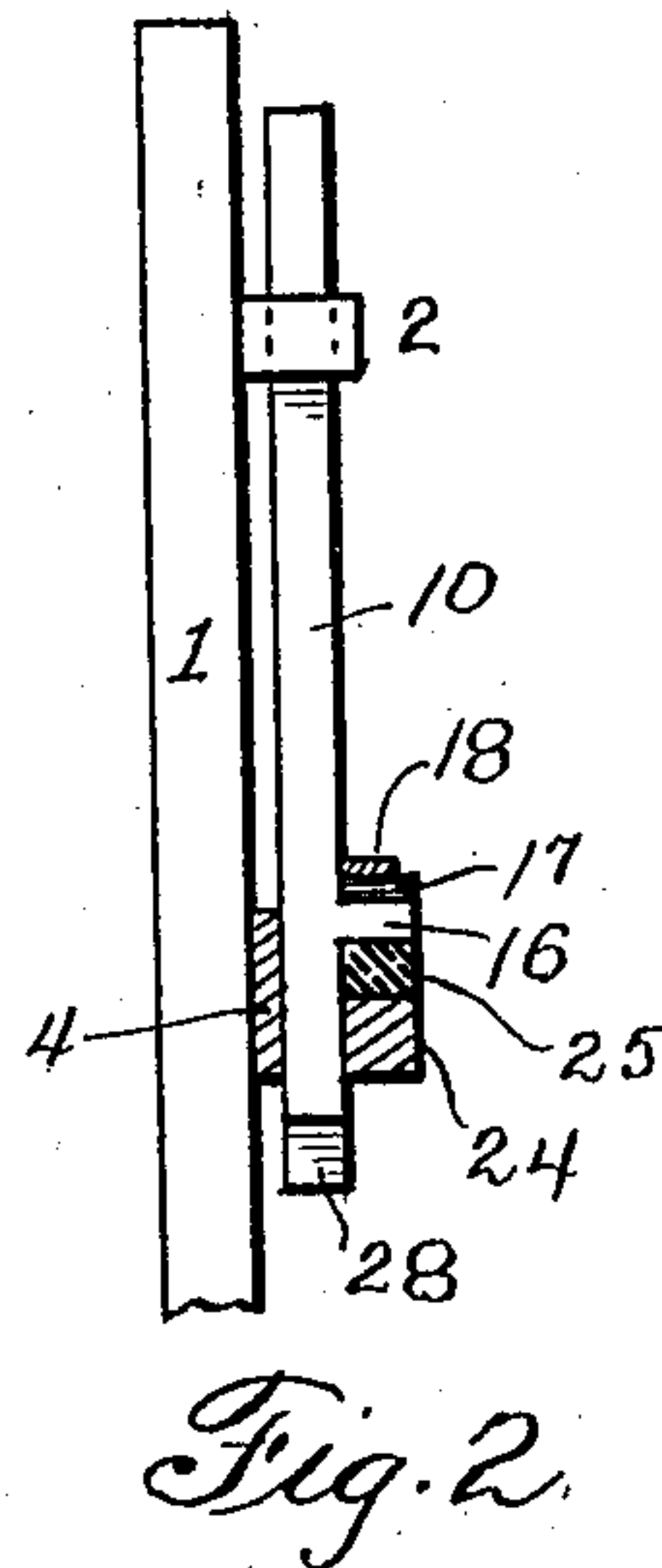
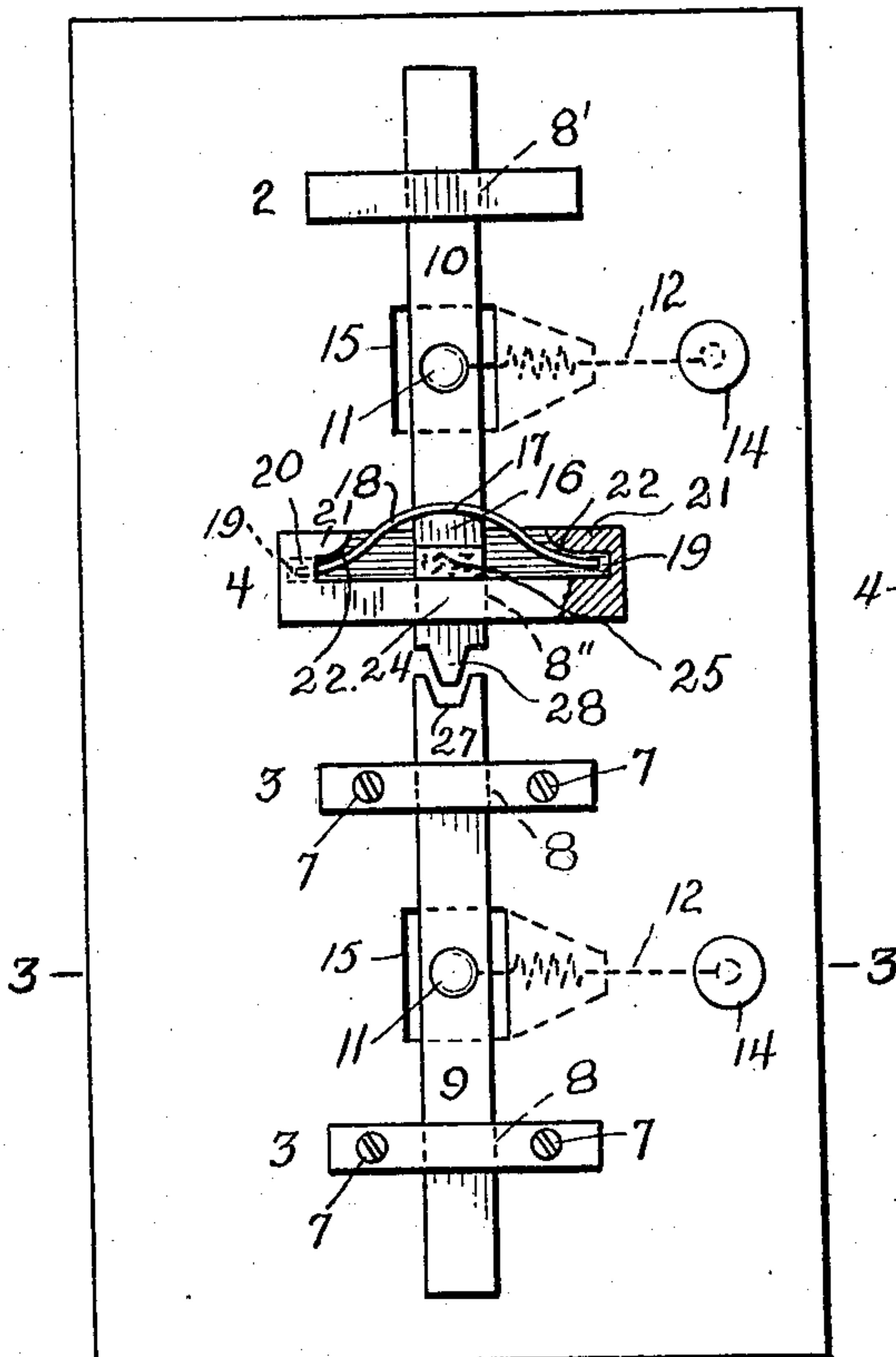


H. ANDERSON.
ELECTRIC FIRE ALARM.
APPLICATION FILED FEB. 14, 1908.

900,641.

Patented Oct. 6, 1908.

Fig. 1.



Witnesses

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UNITED STATES PATENT OFFICE.

HARRY ANDERSON, OF HADDONFIELD, NEW JERSEY.

ELECTRIC FIRE-ALARM.

No. 900,641.

Specification of Letters Patent.

Patented Oct. 6, 1908.

Application filed February 14, 1908. Serial No. 415,948.

To all whom it may concern:

Be it known that I, HARRY ANDERSON, a citizen of the United States, residing at Haddonfield, in the county of Camden and State of New Jersey, have invented certain new and useful Improvements in Electric Fire-Alarms, of which the following is a specification.

This invention relates to certain new and useful improvements in thermal signals for fire and other electric alarm systems.

More particularly, the invention relates to that class of alarms involving normally separated contact members which are adapted to come together to close an electric alarm circuit upon the melting of a fusible block or element due to excessive heat as in case of fire in a building.

Reference will be had to the accompanying drawings forming a part of this specification and wherein like numerals of reference designate corresponding parts throughout the several views, in which:

Figure 1 is a front elevation of the invention, Fig. 2, a side elevation of the upper portion thereof, parts being shown in section, and Fig. 3, a transverse sectional view taken on line 3—3 of Fig. 1.

Reference numeral 1 designates a base board to which are secured in any suitable manner the guides 2 and 3 and guide or housing 4. The guides 3 consist of upper and lower sections 5 and 6 respectively, and if desired the guide 2 may be similarly constructed. The upper ones 5 of said sections are secured upon the lower sections 6 by means of screws 7, and the adjacent faces of said sections are notched as indicated by numeral 8 to form openings through which is passed the stationary contact member 9. The guide member 2 is also formed with an opening 8' and the housing 4 with a similar opening 8'' and through these openings 8' and 8'' is passed the movable contact member 10.

The upper or movable contact member 10 between the guide 2 and housing 4, and the lower or stationary contact member 9 between the guide members 3—3 are each provided with a terminal 11 having electrical connections 12 with main terminals 14. The base board 1, at points adjacent the terminals 11, is cut out as at 15 to permit movement of the upper contact member and adjustment of the lower contact member.

The upper contact member 10 is formed on its outer side with a lug or projection 16 having a slightly rounded upper edge 17 against which bears a leaf spring 18, the outer ends of which are secured from displacement by being inserted in recesses 19 in the outer end portions of the housing 4. The said spring is prevented from being displaced forwardly by the front wall portions 20 of the housing, and from springing upwardly by overhanging portions 21 having rounded ends 22 to offer the least possible resistance to the free movement of the spring. Between the said lug or projection 16 and the guide portion 24 of the housing is inserted a fusible element 25 in the form of a block, and this element may be wax, metal or other suitable material which will melt under intense or abnormal heat.

The operation is as follows: The lower contact member being adjusted is immovably secured in its guides 3 by tightening screws 7, and the upper contact member is moved against the pressure of the spring element 18 and the fusible element or block 25 inserted between the said lug or projection 16 and the portion 24 of the housing. In case of fire or intense heat in the building where the device is located, the fusible element 25 will melt and the upper contact member will be forced downwardly by the said spring into contact with the lower contact member, thereby completing the electric-alarm circuit. To insure a perfect contact between the members 9 and 10, the former is provided with a substantially V-shaped notch in its upper end and the latter with a substantially V-shaped extension in its lower end, indicated by numerals 27 and 28 respectively.

Having fully described the invention, what is claimed as new and desired to be secured by Letters Patent, is:

1. In a device of the character described, stationary and movable contact members, a housing for the movable member, a lug or projection on said movable member, a spring engaging said lug or projection and having its ends slidably seated in said housing, fusible means between said lug or projection and the housing to normally disengage said contact members.

2. In a device of the character described, stationary and movable contact members, adjusting means for the stationary member, a

housing for the movable member, said housing being provided with an opening to slidably receive the movable member, said movable member being formed with a lug on its outer face, a spring having its ends seated in the outer ends of the housing and bearing centrally against said lug, and fusible means arranged between said lug and housing normally holding said contact members disengaged.

3. In a device of the character described, stationary and movable contact members, adjusting means for the stationary member, a housing for the movable member, said housing being provided with an opening to slidably receive the movable member, said mov-

able member being provided with a lug on its outer face, a spring having its ends slidably seated in the outer end portions of the housing and its central portion exerting lateral spring pressure upon said lug, fusible means between said lug and housing normally holding said contact members disengaged, the contact ends of said contact members interfitting when engaged.

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

HARRY ANDERSON.

Witnesses:

WALTER W. CALMORE,
THOMAS D. SIMPSON.