A. T. NEWMAN.

FIRE ALARM.

APPLICATION FILED JUNE 25, 1908.

921,875. Patented May 18, 1909.

Fig. 1.

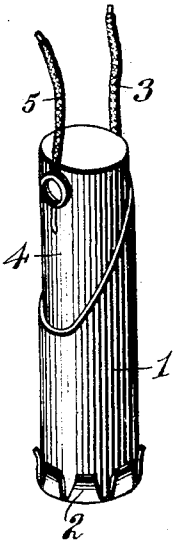


Fig. 2.

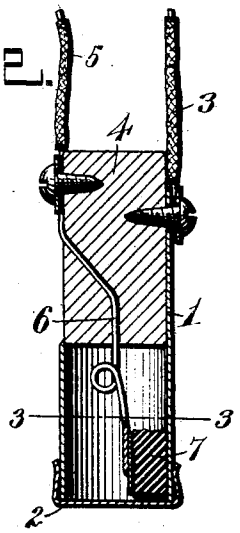
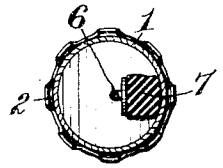


Fig. 3.



Witnesses

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UNITED STATES PATENT OFFICE.

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FIRE-ALARM.

No. 921,875. Specification of Letters Patent. Patented May 18, 1909.

Application filed June 25, 1908. Serial No 440,402.

To all whom it may concern:

Be it known that I, ALBERT T. NEWMAN, a citizen of the United States, residing at Greeley, in the county of Anderson and State of Kansas, have invented a new and useful Improvement in Fire-Alarms, of which the following is a specification.

This invention relates to a fire alarm.

The object of the invention is a device of this kind of a very cheap and simple construction, which can be operated by a small battery.

The invention consists of the novel features of construction hereinafter described, pointed out in the claim, and shown in the accompanying drawings, in which:—

Figure 1 is a perspective view of the device. Fig. 2 is a longitudinal section. Fig. 3 is a transverse section on the line 3—3 of Fig. 2.

In constructing this device I employ a brass tube 1 which is closed at its lower end by a cap 2, and which has its upper end cut obliquely so that one side projects above the other. To the upwardly projecting side of the tube is secured by means of a suitable screw an electrical conductor 3. Within the upper portion of the tube is placed a cylindrical block 4, preferably of wood, to which is secured an electrical conductor 5. A spring 6 is also secured to said conductor 5 and extends downwardly through the block 4 and into the lower portion of the tube. This spring is held from contact with the brass tube 1 by means of a piece of wax 7. The wires 3 and 5 are of course connected with a battery or other suitable source of electrical energy and any suitable alarm device may also be installed in said circuit.

The operation of the device is as follows:— As soon as the temperature rises beyond a certain point the heating of the tube 1 will melt the wax 7, and the spring 6 will then come into contact with the brass tube 3, and the spring and tube will complete the circuit between the conductors 3 and 5, thus causing operation of any alarm device included in said circuit.

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

A device of the kind described comprising an obliquely cut away tube of conducting material, a block of insulating material held in the cut end of said tube, a spring passing through said block and entering the tube, a wax fuse normally holding said spring out of engagement with the tube, and electrical conductors connected respectively to the tube, and to said block, the conductor secured to the block being in electrical connection with the spring.

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