F. GOTTSCALK.
AUTOMATIC FIRE ALARM SYSTEM.
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Fig. 1.

Fig. 2.

Witnesses

Félix Gottschalk

Attorney
To all whom it may concern:

Be it known that I, FELIX GOTTSCALK, a citizen of the United States, residing at Stirling, in the county of Morris and State of New Jersey, have invented certain new and useful Improvements in Automatic Fire-Alarm Systems, of which the following is a specification, reference being had to the accompanying drawing.

My invention relates to fire alarm systems, and has for its principal object the utilization of the ordinary telephone instrument and its associated line and central office equipment for the transmission of an alarm signal automatically, by the mechanical operation of the usual telephone receiver-hook mechanism by a thermostat device.

A further object is the elimination of any electrical connections, or the attachment of any circuit operating devices to the telephone line, the sending of the fire alarm being accomplished entirely by the mechanical actuation of the telephone receiver-hook.

Another object is to produce a mechanical attachment, easily installed on any telephone instrument, for the purpose specified.

There are other objects as hereinafter set forth.

In the accompanying drawings, Figure 1 is a diagram illustrating the principle of my invention, and Fig. 2, a modification of Fig. 1.

Like figures of reference denote the same parts when similar.

1 denotes the framework of a telephone instrument. For the sake of illustration a desk telephone is shown.

2 designates the usual receiver-hook.

3 and 4 indicate suitable clamping devices, between which is the fusible member 5, adapted to melt at an abnormal temperature — say 150 degrees Fahrenheit.

Connected to clamp 4 is the support 6, on which is placed a suitable weight, — for instance the telephone receiver 7.

In operation, the telephone instrument being connected to a central office equipped with the usual common battery apparatus whereby a signal is displayed upon the telephone, upon an abnormal rise in temperature, member 5 melts, thereby releasing weight 7 and allowing hook switch 2 to operate its contacts in the usual manner thereby signaling the central office. As a system of this character would be used principally at night, the exchange attendant would immediately know, that a signal displayed during this period, without any response from the telephone, would mean a fire signal.

Fig. 2 is a modification of Fig. 1, and shows an arrangement whereby the use of a weight is dispensed with; the member 5 being connected to a suitable lug 8 formed on the side of the casing 1.

It will be seen that my invention consists of utilizing the standard telephone instrument and its associated line and central office apparatus, without complicating the same by the addition of electrically operated devices for sending the alarm, and that my device is purely mechanical, and does not affect the regular operation of the telephone in any manner.

I claim —

1. In an alarm system of the character described, in combination, a receiver hook, a weight, and means for attaching said weight to said hook comprising a member adapted to release said weight in the presence of abnormal heat.

2. In an alarm system of the character described, a telephone having a gravity switch hook, a telephone receiver, means for holding said receiver clamped to said hook, said means comprising a member adapted to relieve said switch hook of the weight of said receiver in the presence of abnormal heat.

3. In an alarm system of the character described, in combination with a telephone instrument having a gravity hook switch, of a telephone receiver and means for supporting said receiver, said means being connected to said hook switch by a member adapted to melt in the presence of abnormal heat.

4. In an alarm system of the character described, a telephone receiver, a support therefor, a fusible link removably connected to said support and means for removably connecting said fusible link to the switch hook of said telephone instrument, substantially as described.

5. In an alarm system of the character described, a telephone having a switch hook, means for clamping the switch hook to the telephone, said means including a member adapted to release said hook in the presence of abnormal heat.

6. In an alarm system of the character described, a telephone having switching mechanism and means for holding said mechanism in its normal restrained position, said
means comprising a member adapted to release said mechanism in the presence of abnormal heat.

7. In an alarm system of the character described, a telephone instrument having a switch hook and means comprising a member adapted to melt in the presence of abnormal heat, whereby said switch hook is held in its normal position, substantially as described.

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

Witnesses:

JULIAN G. BENNETT,

CHAS. LURRECHT.