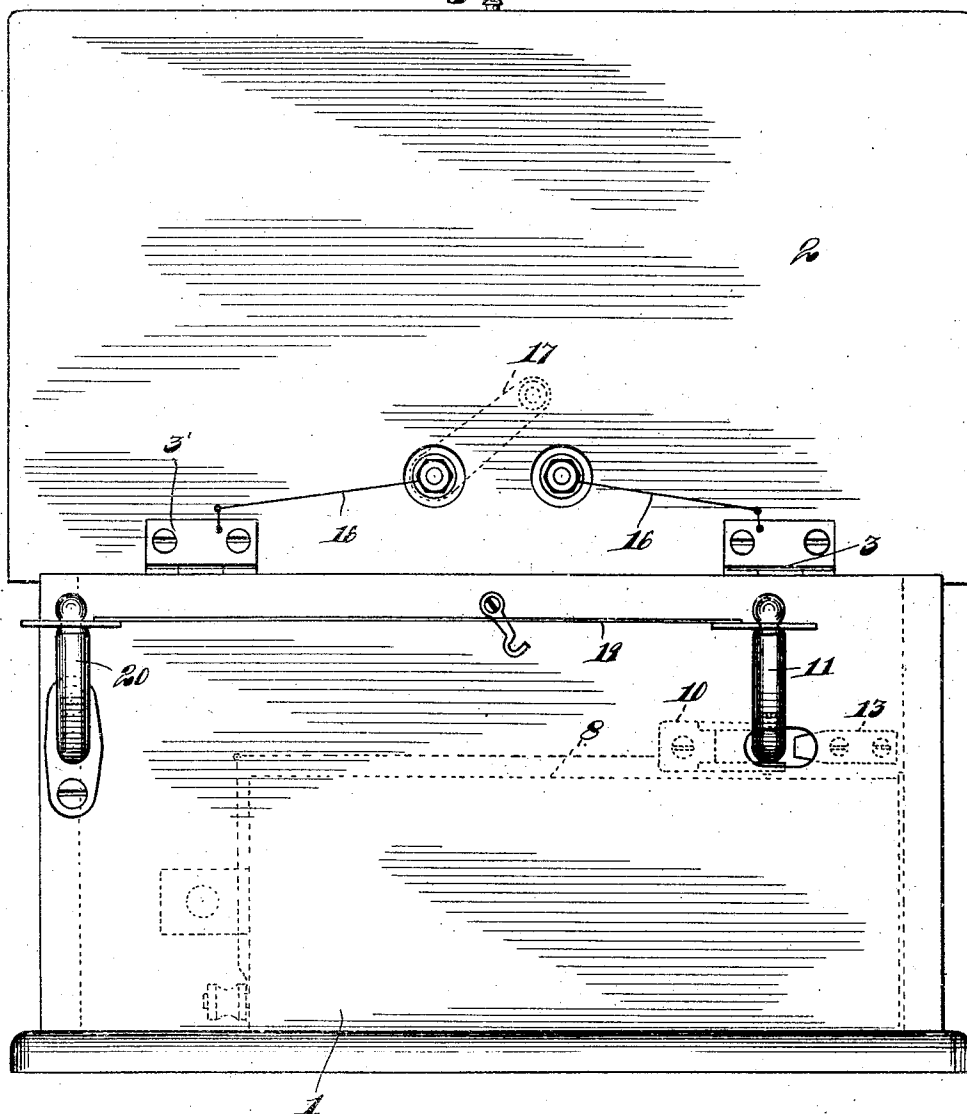


F. H. HAHNE.
RAIN ALARM.
APPLICATION FILED MAY 3, 1916.

1,245,221.

Patented Nov. 6, 1917.
2 SHEETS—SHEET 1.

Fig. 1.



Witnesses:

E. C. Weasela.
a. a. Olsen

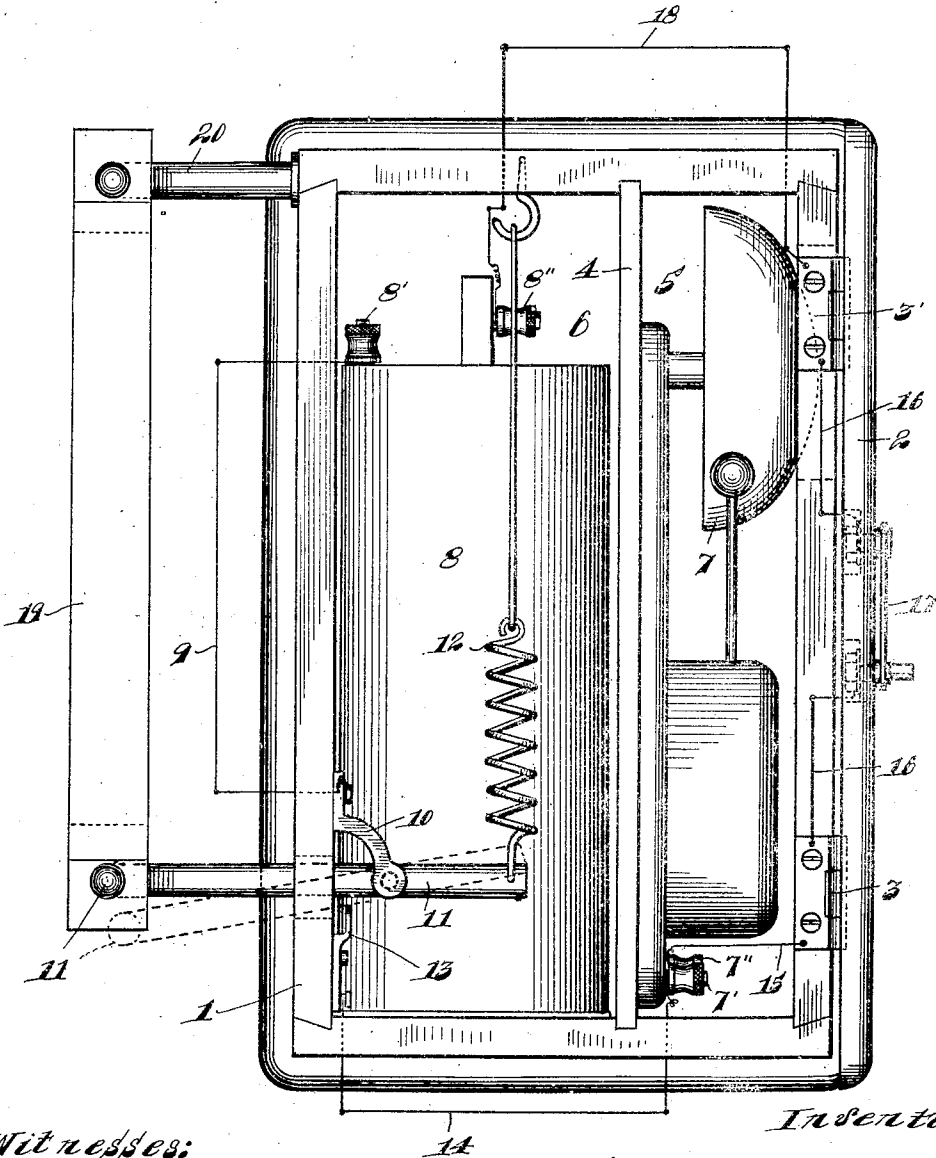
Inventor:

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1,245,221.

Patented Nov. 6, 1917.
2 SHEETS—SHEET 2.

Fig. 2.



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UNITED STATES PATENT OFFICE.

FRED H. HAHNE, OF CHICAGO, ILLINOIS.

RAIN-ALARM.

1,245,221.

Specification of Letters Patent.

Patented Nov. 6, 1917.

Application filed May 3, 1916. Serial No. 95,057.

To all whom it may concern:

Be it known that I, FRED H. HAHNE, a citizen of the United States, and a resident of the city of Chicago, county of Cook and State of Illinois, have invented a certain new and useful Rain-Alarm, of which the following is a specification:

My invention relates to a device designed for use to give an alarm in case of rain, the same being especially useful for domestic use to notify the owner of rain, in order that he may close the windows of his house, or take other measures which he may deem advisable in case of rain.

The object of this invention is the production of a device of the character mentioned which will be of durable and economical construction, one which may be readily and easily set, and which will be efficient in use.

Other objects will appear hereinafter.

With these objects in view, the invention consists in the combination and arrangements of parts hereinafter described and claimed.

The invention will be best understood by reference to the accompanying drawings forming a part of this specification, and in which,

Figure 1 is a front elevation of a rain alarm embodying the invention, the cover of the device being shown in raised or open position, and

Fig. 2 is a top plan view of Fig. 1.

The preferred form of construction, as illustrated in the drawings, comprises a rectangular casing 1 which is provided with a cover 2 swingingly connected with said casing by means of hinges 3 and 3'. The interior of said casing is divided by means of a partition 4 into compartments 5 and 6. Arranged in the compartment 5 is an electric bell 7, and arranged in the compartment 6 is a conventional dry cell or battery 8.

The pole 8' of the battery 8 is connected by a conductor wire 9 with a bracket 10 secured to the front wall of casing 1 and to which is pivotally secured an arm 11. A helical tension spring 12, engaging with the inner end of arm 11, serves to normally hold the same in engagement with a contact 13, as clearly shown in dotted lines in Fig. 2. The contact 13 is connected by means of a conductor wire 14 with one of the poles 7' of the bell 7, the other pole 7'' of said bell being connected by means of a conductor wire 15 with hinge 3. The hinges 3 and 3'

are connected by a conductor wire 16 in which is interposed a conventional manually operable switch 17 which is mounted upon the outer or upper side of cover 2, as shown in the several views. The hinge 3' is connected by means of a conductor wire 18 with the other pole 8'' of the battery 8.

With this arrangement, it will be seen, that an electrical circuit is formed through the bell and the battery which will be controlled by the switch 17 and the rocking arm 11, the arrangement being such, that with said switch closed, the bell will be operated upon rocking of the arm 11 to engagement with the contact 13. When said arm 11 is moved from engagement with the contact 13, as shown in full lines in Fig. 2, the circuit through the bell will be broken, so that, with said arm in this position, the bell will be silent.

Coöperating with the arm 11 is a strip 19 of absorbent paper or other suitable material adapted, upon moistening, to be readily severable. The opposite ends of the strip 19 are perforated, and, in use, one end of said strip is engaged with an exteriorly positioned anchoring arm or post 20 which projects from casing 1, the opposite end of said strip being engaged with the exteriorly projecting end of arm 11. Said strip 19 is of such a length as to adapt the same to hold the arm 11 in circuit-breaking position, and is of sufficient strength, when not moistened, to resist the tension or pull of spring 12. In case of rain, however, immediately upon said strip becoming moistened, through contact of the rain drops therewith, the same becomes weakened, and is readily severable under the tension or influence of the spring 12. This being so, immediately upon rain, with the device positioned outdoors, and with the switch 17 closed, the strip 19 will be severed upon contact of the rain drops therewith, with the result of the circuit through the bell being closed and the bell sounded, giving the desired alarm. The user of the device will be provided with a number of strips 19, one of which is used upon each employment of the device.

While I have illustrated and described the preferred form of construction for carrying my invention into effect, this is capable of variation and modification without departing from the spirit of the invention. I, therefore, do not wish to be limited to the precise details of construction set

forth, but desire to avail myself of such variations and modifications as come within the scope of the appended claims.

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

1. In a rain alarm, a signal; a movable member adapted, when released from a set position, to effect actuation of said signal; means readily severable upon moistening, for holding said movable member in set position; and a casing inclosing all of said parts except said last mentioned means, substantially as described.
2. In a rain alarm, a signal; an electric battery in circuit with said signal and adapted, when the circuit is closed to actuate said signal; a circuit breaker interposed in said circuit and adapted when released from a set position, to effect actuation of said signal; means readily severable upon moistening, for holding said movable member in set position; and a casing inclosing all of said parts except said last mentioned means, substantially as described.
3. In a rain alarm, a signal; an electric battery in circuit with said signal and adapted, when the circuit is closed to actuate said signal; a circuit breaker interposed in said circuit and adapted when released

from a set position, to effect actuation of said signal; means readily severable upon moistening, for holding said movable member in set position; and a casing inclosing all of said parts except said last mentioned means, there being separate compartments in said casing for the reception of said battery and signal, substantially as described.

4. In a rain alarm, a signal; an electric battery in circuit with said signal and adapted, when the circuit is closed to actuate said signal; a circuit breaker interposed in said circuit and adapted when released from a set position, to effect actuation of said signal; means readily severable upon moistening, for holding said movable member in set position; a casing inclosing all of said parts except said last mentioned means, there being separate compartments in said casing for the reception of said battery and signal; and a hinged cover for said casing through which access may be gained to said compartments, substantially as described.

In testimony whereof I have signed my name to this specification in the presence of a subscribing witness.

FRED H. HAHNE.

Witness:

HELEN F. LILLIS.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."