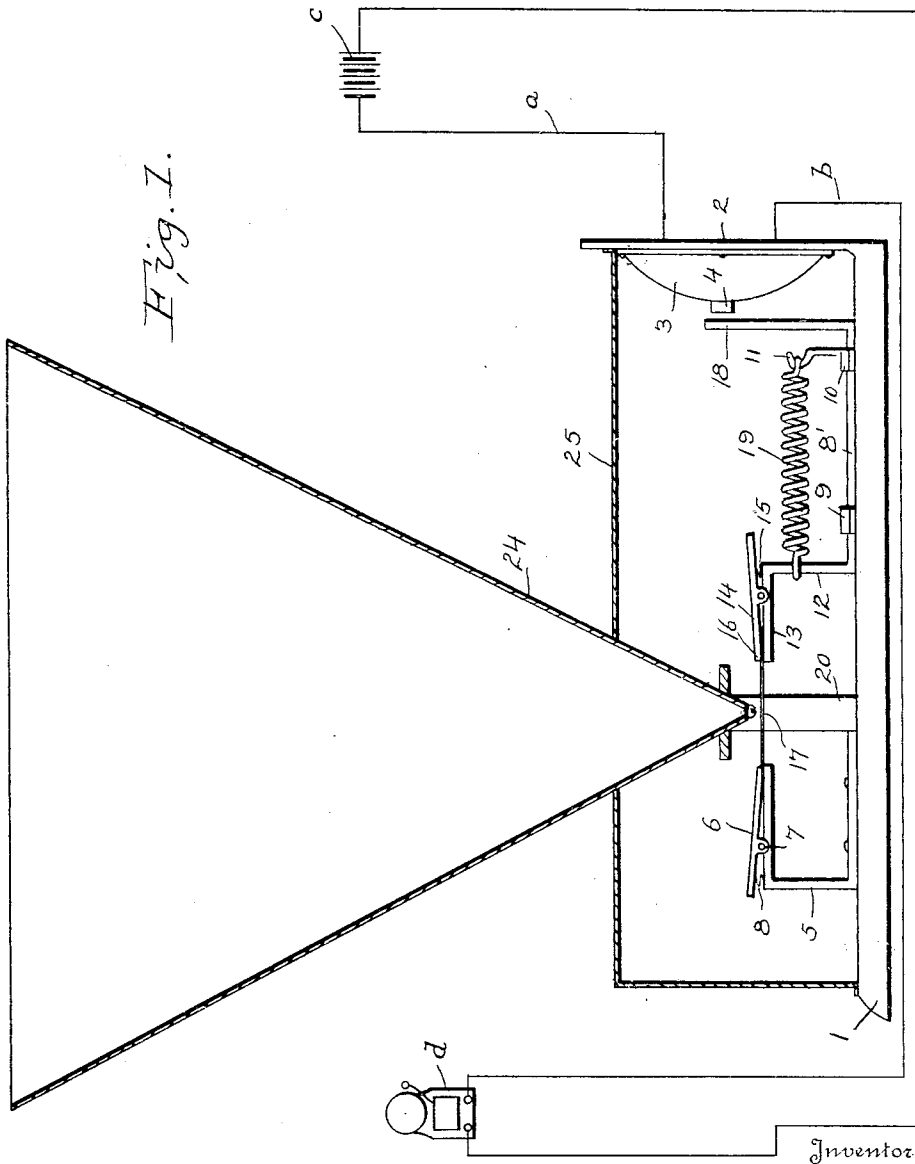


H. J. HIRSCHMANN.
ELECTRIC RAIN ALARM.
APPLICATION FILED APR. 25, 1914.

1,135,798.

Patented Apr. 13, 1915.
2 SHEETS—SHEET 1.



Witnesses

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Fig. 2.

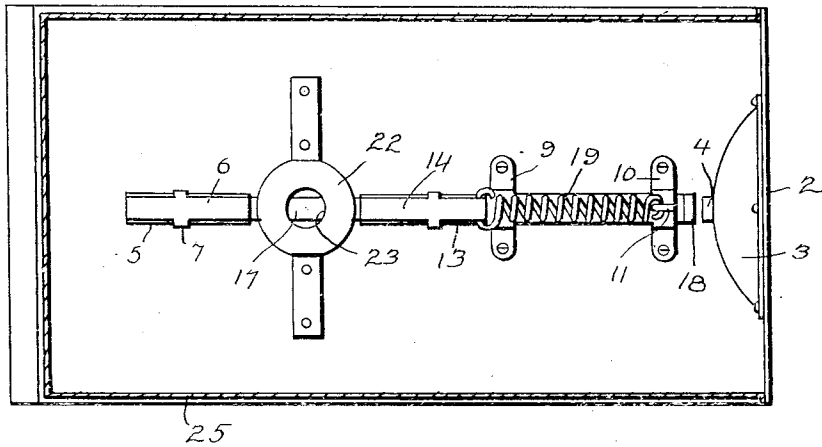


Fig. 3.

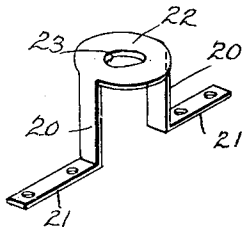
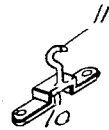


Fig. 4.



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UNITED STATES PATENT OFFICE.

HARRY JOHN HIRSCHMANN, OF ST. LOUIS, MISSOURI.

ELECTRIC RAIN-ALARM.

1,135,798.

Specification of Letters Patent.

Patented Apr. 13, 1915.

Application filed April 25, 1914. Serial No. 834,506.

To all whom it may concern:

Be it known that I, HARRY J. HIRSCHMANN, a citizen of the United States, residing at St. Louis, in the State of Missouri, have invented certain new and useful Improvements in Electric Rain-Alarms, of which the following is a specification.

This invention relates to electric rain alarms, and one of the principal objects of the invention is to provide reliable and efficient means of comparatively simple construction which will instantly give an alarm when it starts to rain.

In apartment houses, residences, hotels and other places where windows are left open for the purpose of ventilation in many cases the rain has beaten in and destroyed carpets and furniture, and it is for the purpose of giving an alarm when the rain first commences to arouse the occupants of these rooms that this invention has been designed. There are many other places and uses for the devices. It can be placed in the yard or outside the house in case that valuable articles which would be injured by rain are placed, and the moment that the rain starts to fall the alarm bell is started to ring and will ring until it is released by the operator. These and other objects may be attained by means of the construction illustrated in the accompanying drawings, in which.

Figure 1 is a side elevation and partial section of a rain indicator made in accordance with this invention, Fig. 2 is a horizontal sectional view taken through the casing and showing in plan the rain indicator with the funnel disconnected therefrom, Fig. 3 is a perspective view of the funnel supporting bracket, and Fig. 4 is a perspective view of a bracket to which the spring is connected at one end.

Referring to the drawing the numeral 1 designates a base for supporting the operating parts of the device. At one end an arm 2 extends upward from the base, and a suitable bracket 3 is supported on the inner side of the arm 2 and has a contact button 4 thereon. A bracket 5 is supported upon the base and at the top of the bracket 5 is a clasp member 6 pivoted at 7 and provided with a suitable spring 8 to hold the jaws of the clasp closed. A sliding contact member 8' is mounted in a guide 9 secured to the base, and in a guide member 10 having a hook 11 rising therefrom. The sliding member 8' is provided with a vertical member 12

having a horizontal portion 13 and pivoted to the portion 13 is a clasp member 14 provided with a spring 15 to normally hold the jaws 16 closed. A piece of paper 17 is engaged by the clasp members 6 and 14 to hold the sliding member 8' in the position shown in Fig. 1. A contact arm 18 formed on the sliding member 8' is disposed in alinement with the contact point 4 and a spiral spring 19 is connected at one end to the vertical member 12 of the sliding member 8' and the opposite end of said spring is connected to the hook 11 on the bracket or guide 10. A funnel supporting bracket comprising the spaced vertical legs 20 and the feet 21 connected to the base 1 is provided at its upper end with a perforated disk 22 having a central aperture or perforation 23 for supporting a wide mouthed funnel 24.

The electrical conductors *a* and *b* are connected to the arm 2 and extend therefrom through a battery *c* and thence to an electric bell *d* of the usual or any suitable construction.

The rain alarm or annunciator may be placed upon a window sill or at any other point outside the house, and when a drop of rain is collected in the funnel 24 it will be deposited upon the slip of paper 17, and owing to tension of the spring 19 the paper will be instantly broken, carrying the contact arm 18 against the contact 4 and starting the bell *d* to ringing. The bell will ring until the spring 19 is disengaged from the hook 11, and the sliding member 8' is moved toward the left in Fig. 1.

From the foregoing it will be obvious that a rain annunciator made in accordance with this invention is comparatively simple in construction, is reliable in operation and is capable of many uses and will operate efficiently for its purpose.

Various changes in the details of construction may be resorted to without departing from the spirit and scope of the invention as defined in the claims.

What is claimed is:—

1. A rain annunciator comprising a casing supported upon a base, a sliding member mounted on the base, a spring for holding said member in one position, a contact arm carried by the sliding member, a bell contact on the casing, means for holding a strip of paper against the tension of said spring, and means for receiving and conveying a rain

drop or drops upon said paper to permit the latter to break and to sound an alarm.

2. An electric rain annunciator comprising a base, a bracket connected to said base
5 and provided with a spring clasp member, a sliding member mounted on the base and provided with a clasp member, a spring for moving said clasp members away, one from the other, a contact arm carried by the slide
10 member, a contact on the base member in line with said arm, and means for supporting a funnel above a paper strip connected by said clasp members.

3. An electric rain alarm comprising a
15 base, a bracket rigidly connected to the base, and provided with a clasp member, a sliding member provided with a contact arm, and a clasp member connected to said slide, a con-

tact point on said base, said clasp members adapted to support a strip of paper, and 20 means for collecting rain drops to be deposited on said paper and to break the same and to make an electrical contact for ringing a bell.

4. An electrical rain annunciator comprising 25 means for supporting a strip of paper immediately under a funnel or rain collector, and means whereby when said paper is separated by the moisture an electrical contact will be completed to ring a bell. 30

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

HARRY JOHN HIRSCHMANN.

Witnesses:

CHARLES F. FIELER,
JOHN H. THOMPSON.

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