H. J. BLACKMORE.

RAIN SIGNAL.

APPLICATION FILED SEPT. 5, 1917.

1,280,136. Patented Oct. 1, 1918.

Fig. 1.

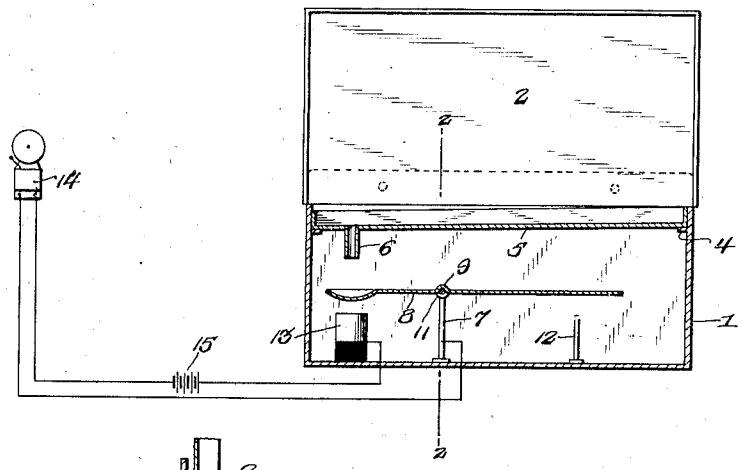
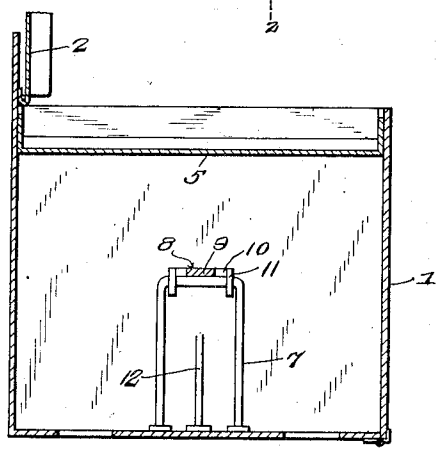


Fig. 2.



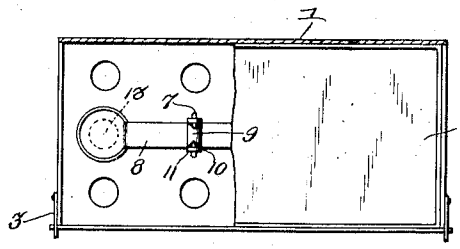


Fig. 3.

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RAIN-SIGNAL.

1,280,136. Specification of Letters Patent. Patented Oct. 1, 1918.

Application filed September 5, 1917. Serial No. 189,805.

To all whom it may concern:

Be it known that I, HENRY JOHN BLACKMORE, a citizen of Newfoundland, residing at Indianapolis in the county of Marion and State of Indiana, have invented new and useful Improvements in Rain-Signals, of which the following is a specification.

This invention relates to new and useful improvements in rain indicators, and the principal object of the invention is to provide a device actuated by the rain water for sounding an alarm to notify the occupants of a residence that rain is falling so that they may close the windows and thus avoid damage from the rain.

The present invention is an improvement over the invention described in the application for Letters Patent filed August 7, 1917, Serial No. 184,934.

Another object of the invention is to provide a balanced member adapted to receive the rain water at one end thereof so that said end will be depressed to close an electric circuit to sound the alarm.

Another object of the invention is to provide a device of this character which is simple and durable in construction, reliable and efficient in operation and one which can be manufactured and placed upon the market at a minimum cost.

The invention also consists in certain other features of construction and in the combination and arrangement of the several parts, to be hereinafter fully described, illustrated in the accompanying drawings and specifically pointed out in the appended claim.

In describing my invention in detail, reference will be had to the accompanying drawings wherein like characters denote like or corresponding parts throughout the several views, and in which:—

Figure 1 is a vertical longitudinal section through the device and includes a diagrammatic representation of the electrical connections.

Fig. 2 is a section on line 2—2 of Fig. 1.

Fig. 3 is a plan view with parts broken away.

In these figures 1 indicates a casing having its bottom perforated and provided with a hinged cover 2. If desired this cover may be made to catch the rain and to direct it into the receptacle as described in my former application. I prefer to form the front of the case so that it may be detached to give access to the interior of the casing and said front is held in position by the hooks 3 pivoted to the ends of the casing. If desired I may hinge said front to the bottom of the casing. The ends of the casing are provided with flanges 4 on their inner faces adjacent their upper ends to support the trough or tray 5 which is to catch the rain water as it falls. This trough is provided with an outlet tube 6 adjacent one end and the flange 4 at this end of the casing is on a lower plane than the other flange so as to hold the trough in a tilted position, thus directing the water to said outlet. The tray sits loosely on said flanges so that it may be lifted out when desired.

On the bottom of the casing I locate a standard 7 composed of two upright bars having their ends secured to the said bottom, and a cross bar connecting the upper ends of said upright bars. This standard supports a spoon shaped member 8 which is so proportioned as to balance itself on said standard. I prefer to form a depression 9 in the stem of said member and to form notches 10 in each end of said depression, said depression fitting over the cross bar of the standard. Lugs 11 are formed on the cross bar, one on each side of the spoon shaped member and engaging said notches to prevent lateral movement of said member. 12 indicates a pin for engaging the rear end of the stem of the spoon shaped member to limit the downward movement of said stem. Immediately under the bowl of the spoon shaped member and adjacent one end of the casing is located the contact 13 which is suitably insulated from the bottom of the casing to which it is secured. Said contact is provided with the usual form of electrode passing through the same and adapted to receive the usual connecting wire which leads to the alarm 14 which in turn is connected by suitable wires with the battery 15, connected in its turn by a suitable wire to the standard 7. The parts are so arranged that the bowl of the spoon member is directly under the lower end of the outlet tube of the tray.

With the parts in operative position and when the rain begins to fall, the tray will catch the water and it will flow from the tray through the outlet tube into the bowl of the spoon, thus the spoon will be tilted so that the bowl will engage with the contact thus completing the circuit and sounding

the alarm. The occupants of the dwelling will thus be notified that rain is falling so that they may close the windows to prevent damage to the contents of the dwelling. The device can then be thrown out of action by closing the cover, but first the bowl should be emptied of the water contained therein. This can easily be done by lifting the bowl out of the casing and emptying the water therefrom.

It is thought from the foregoing description that the advantages and novel features of my invention will be readily apparent.

I desire it to be understood that I may make slight changes in the construction and in the combination and arrangement of the several parts, provided that such changes fall within the scope of the appended claim.

What is claimed is:—

In a device of the class described, a casing, a hinged top therefor, a hinged front, means for holding the front in position, a standard within the casing, a spoon shaped member balanced on said standard, an electric contact located under the bowl of said member, and a tray removably mounted in the top of the casing and having an outlet directly over the bowl of the spoon shaped member.

In testimony whereof I affix my signature.

HENRY J. BLACKMORE.