

A. F. W. VIEHWEGER:
RAIN SIGNAL.
APPLICATION FILED OCT. 25, 1916.

1,283,989.

Patented Nov. 5, 1918.

Fig. 1.

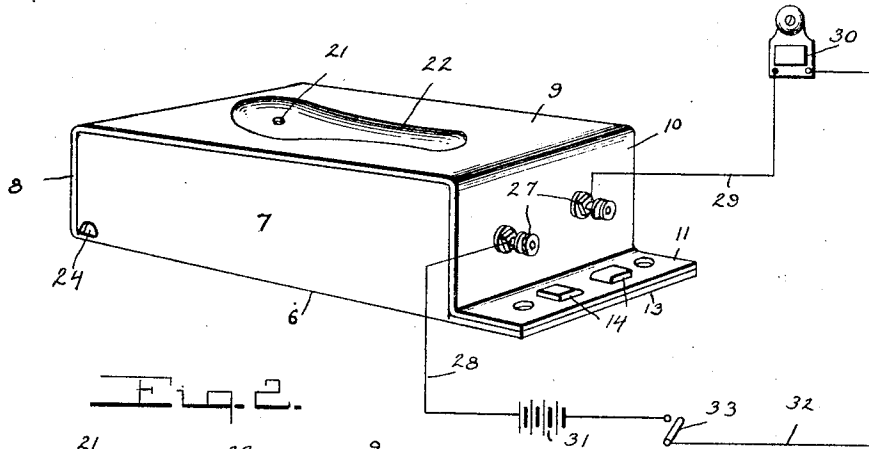


Fig. 2.

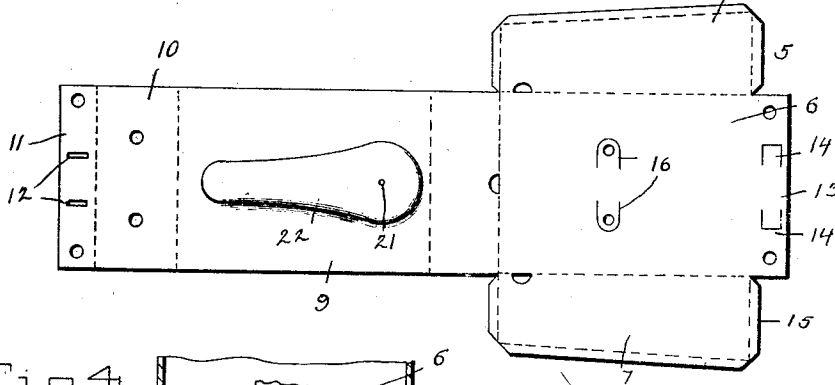
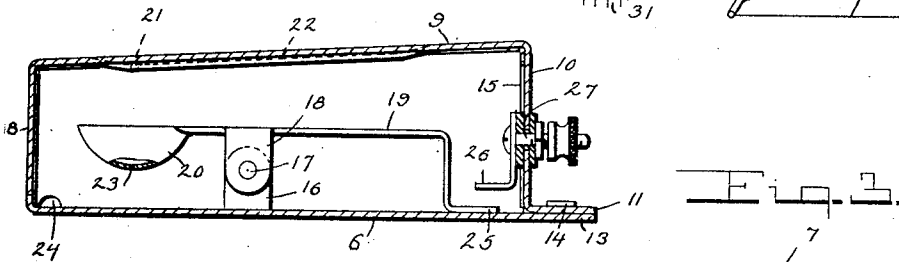
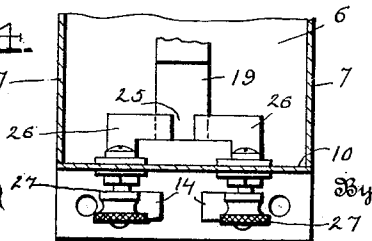


Fig. 4.

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UNITED STATES PATENT OFFICE.

AUGUST F. W. VIEHWEGER, OF HOBOKEN, NEW JERSEY.

RAIN-SIGNAL.

1,283,989.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, AUGUST F. W. VIEHWEGER, a subject of the Emperor of Germany, residing at Hoboken, in the county of Hudson and State of New Jersey, have invented certain new and useful Improvements in Rain-Signals; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention has for its object to provide an improved signal device operable by the falling of rain to give a warning signal.

Another object of the invention is the provision of a rain signal embodying a novelly constructed casing formed entirely of a single piece of sheet metal.

Another object is the provision of a simple and efficient rain operated lever provided at one end with a cup-shaped rain container, having an aperture therein through which the rain water escapes, subsequent to an operation of the lever.

With these and other objects in view, the invention consists in the novel construction, combination and arrangement of parts as will be hereinafter specifically described, claimed and illustrated in the accompanying drawing, in which:

Figure 1 represents a perspective view of the rain signal, illustrating the electrical circuit therefor diagrammatically,

Fig. 2 represents a longitudinal sectional view through the signal,

Fig. 3 represents a plan view of the casing, and

Fig. 4 represents a fragmentary longitudinal sectional view, taken at right angles to Fig. 2.

Referring to the drawing in detail, wherein similar reference numerals designate corresponding parts throughout the several views, the numeral 5 indicates generally the blank of sheet metal, or other suitable material, from which the casing is constructed. The base 6 is connected with the vertical side walls 7 and one end wall 8, which latter is formed integral with the top 9, which when properly bent overlies the base plate 6. The other end wall 10 is connected with an extension 11, having slots 12 therein and which overlies the extension 13 of the base plate 6. Tongues 14 are struck up from the extension 13, extended through the slots 12 and bent back upon the extension 11 to se-

cure the casing in assembled position. The side walls 7 are provided with marginal flaps 15, which are turned inwardly against adjacent portions of the extension 13 and secured to the top and end walls. A pair of ears 16 are stamped up from the base plate 6 and support the pivot pin 17 upon which is pivotally mounted the depending ears 18 of a lever 19. One end of the lever 19 is enlarged and cup-shaped, as indicated at 20, and the portion of the top 9 overlying the cup 20 is formed with an aperture 21. A depression 22 is formed in the top 9 about the aperture 21 and is designed to conduct the rain-water therethrough. The bottom portion of the cup 20 is formed with a relatively small aperture 23, through which the rain-water slowly escapes and drips into the casing from which it is conducted through openings 24 formed in the side walls 7.

The opposite terminal 25 of the lever is offset and is adapted to engage a pair of angular contact members 26, which are electrically connected with binding posts 27 secured in the adjacent end wall of the casing and electrically connected with conductors 28 and 29. The opposite terminal of the conductor 29 is connected with an electric bell, or other signal device 30, and the conductor 28 is connected with one pole of a battery or other source of electro-motive force 31, the opposite pole of which is connected with the signal device 30 by a conductor 32. A manually operable switch 33 is interposed in the connection between the battery 31 and the signal device 30, whereby the circuit to the latter may be broken when desired.

In its normal position, the offset terminal 25 of the lever 19 is supported upon the base plate 6 in spaced relation to the contact members 26, thereby interrupting the circuit from the battery 31 to the signal device 30. However, during rain, the water is conducted to the aperture 21 by the depressed portion 22 of the casing and falling through the aperture 21 is deposited in the cup-shaped member 20, closing the latter and engaging the offset terminal 25 with the contact members 26, thereby completing a circuit to the signal device 30 and actuating the latter. The water contained in the cup 20 slowly escapes through the aperture 23 therein and flows out of the casing through the outlet ports 24. When the cup is empty

the lever 19 is restored to its initial position by gravity and the circuit to the signal device is automatically broken.

What I claim is:

- 5 A device of the class described, a casing constructed of a single piece of sheet metal having a depression in the upper portion thereof, and an aperture formed in the depressed portion, a pair of ears struck up
10 from the bottom of the casing, a lever formed of a single piece of sheet metal having oppositely disposed downwardly extending ears, means pivotally supporting the downwardly extending ears of the lever between the up struck ears of the casing, said
15 lever having an offset terminal normally

supported upon the bottom of said casing, a pair of spaced contact members arranged in said casing and adapted to be engaged and electrically connected by the offset terminal of said lever, a cup-shaped member formed on the opposite end of said lever and disposed directly under the aperture in said casing, as and for the purpose specified. 20 25

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

AUGUST F. W. VIEHWEGER.

Witnesses:

CHARLES FAIST,

ARTHUR W. STAEDING.

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