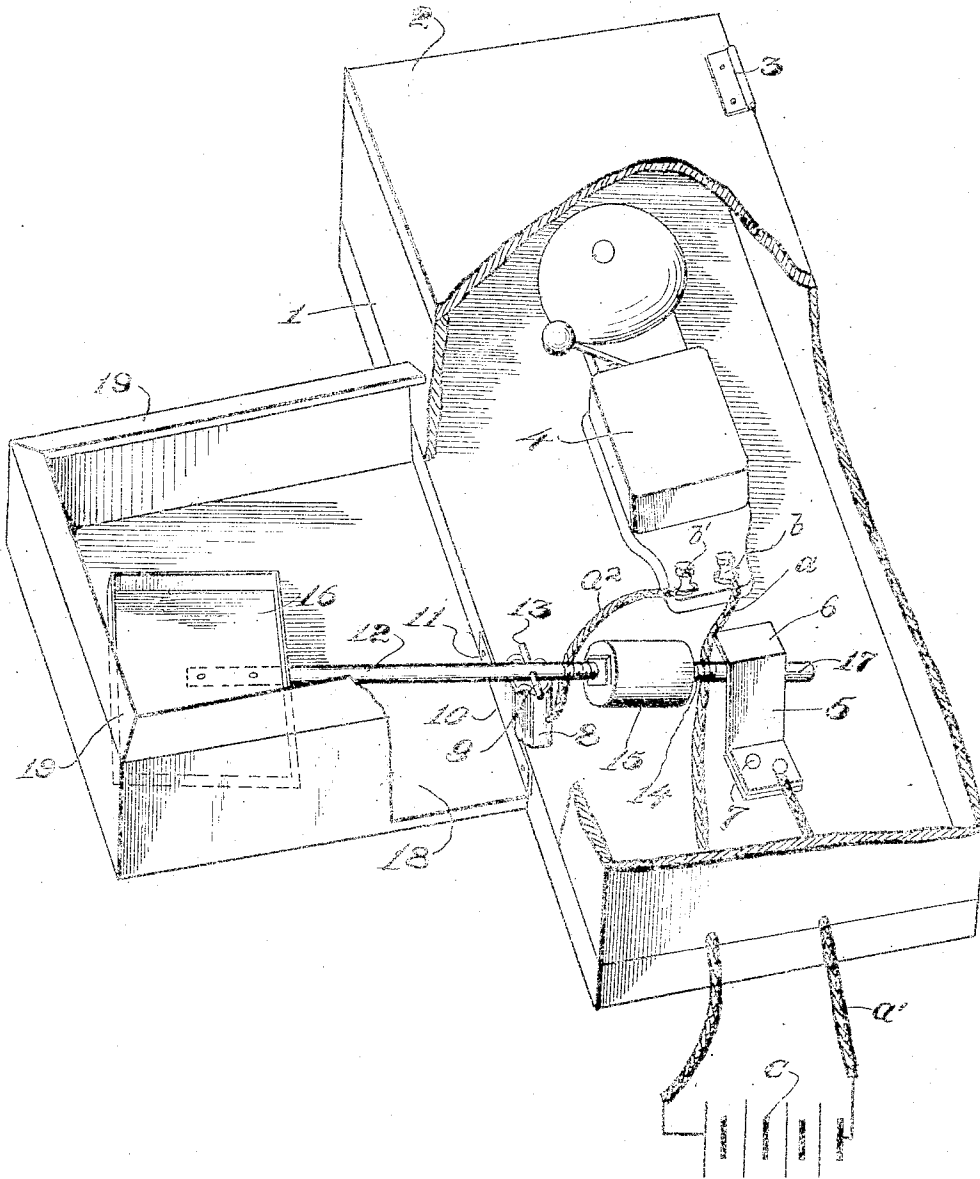


RAIN SIGNAL.

1,217,036.

Patented Feb. 20, 1917.



Inventor
E. J. McManus.

534 *Handwritten signature* Attorney

UNITED STATES PATENT OFFICE.

EDWIN J. McMANUS, OF CAZENOVIA, NEW YORK, ASSIGNOR OF ONE-HALF TO EDWARD
T. WALTERS, OF CAZENOVIA, NEW YORK.

RAIN-SIGNAL.

1,217,033.

Specification of Letters Patent.

Patented Feb. 20, 1917.

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To all whom it may concern:

Be it known that I, EDWIN J. McMANUS, a citizen of the United States, residing at Cazenovia, in the county of Madison and State of New York, 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 relates to rain signals, designed for the purpose of indicating a coming rain storm, and one of the principal objects of the invention is to provide a device of simple construction to be placed upon a window sill or other support outside the house, and which will give an alarm the instant that rain starts to fall.

Rain signals are very desirable for large apartment houses, office buildings, and other large structures in which the windows must be kept open for ventilation, and in which the occupants of the room may be out at the time rain starts to beat in the windows and injure the carpets and furniture.

The foregoing objects and advantages may be attained by means of the construction illustrated in the accompanying drawing, in which—

The figure is a perspective view shown partly broken away of a rain signal made in accordance with this invention.

Referring to the drawing, the numeral 1 designates a box or casing having a cover 2 hinged at 3, and designed to contain the mechanism of the rain signal. An ordinary electric bell 4 is mounted in the casing, and a conductor *a* is connected by binding posts 5 to the bell and leads out through the casing to a battery *c*. A conductor *a'* leads from the battery through the casing to a contact element 6 having an angular contact point 6, and said element being secured to the base of the casing at 7.

A metal bearing 8 is connected to the base of the casing, and said bearing is tubular in form and the upper edge thereof is provided with bearing notches 9. The bearing 8 is provided with a securing bracket 10 connected to the casing by suitable fastenings

11. A conductor *a''* is connected by a binding post *b'* to the bell casing, and said conductor leading to the bearing 8 and suitably connected thereto. A rod 12 is provided with a pivot pin 13 mounted in the bearing 8, and said rod is provided with a series of screw threads 14 and mounted on the screw threaded portion is a weight 15 which may be adjusted on the threaded portion of the rod 12 to regulate the amount of water in the pan 16 connected thereto at the outer end thereof, which will be necessary to throw the end 17 of the rod 12 up into contact with the element 6, thus completing the circuit and ringing the bell.

The pan 16 is disposed within a wind-shield 18 which surrounds the pan, but is not covered and the purpose of this wind-shield is to prevent the wind from interfering with the operation of the pan and from spilling the water therefrom. The wind-shield 18 is provided with a deflector 19 on its upper edge.

From the foregoing it will be obvious that the weight 15 may be adjusted upon the rod 12 to hold the end 17 slightly below the contact element 6, and that when the device is placed on a window sill or where a few drops of rain will be caught in the pan 16, the pan will drop slightly and the end 17 will come into contact with the element 6 and complete the circuit to ring the bell.

Changes in details may be resorted to without departing from the spirit and scope of the invention as defined in the claim.

What is claimed is:—

In a circuit, an elongated casing having a hinged top, a lateral extension on said casing having an open top, and communicating with the casing, a lever pivoted in said casing having one end thereof extending into said lateral extension, and a pan secured on the end of the lever and disposed beneath said open top of said lateral extension for the purpose specified.

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

EDWIN J. McMANUS.

Witnesses:

W. D. WINTROB,
C. E. GRAVES.