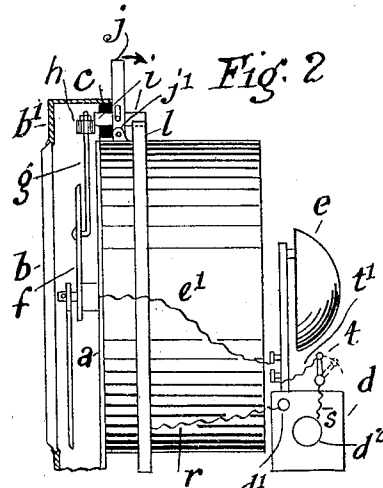
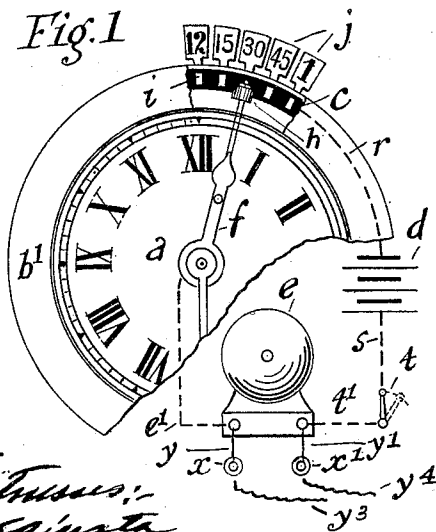
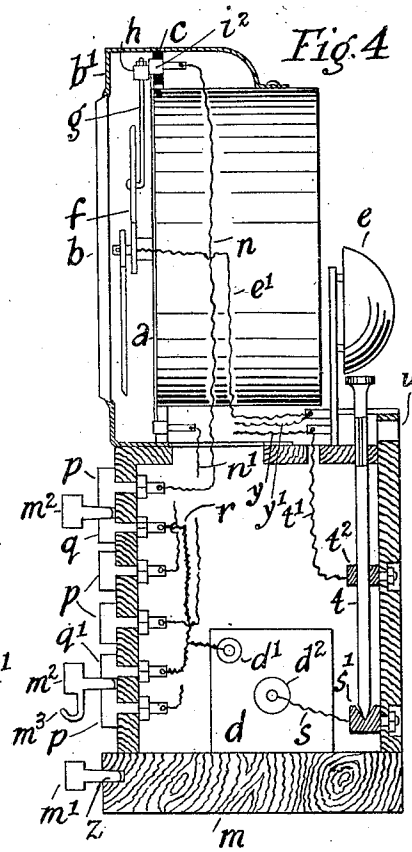
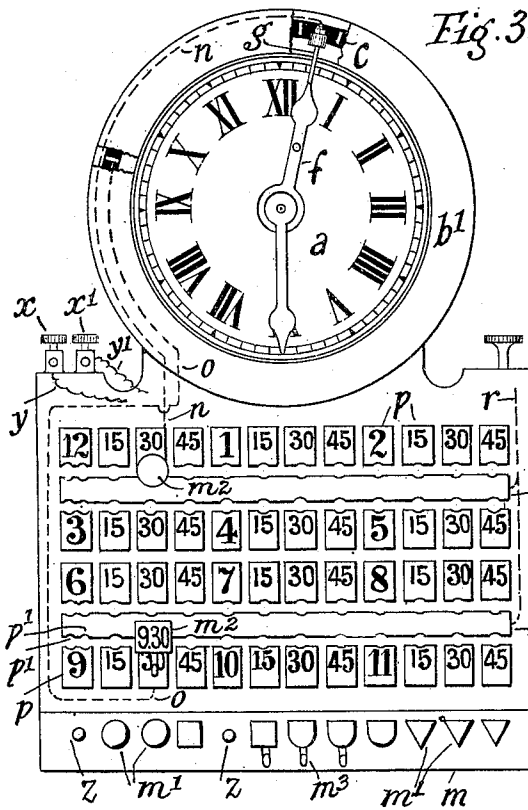


F. GOSS.
ALARM CLOCK.
APPLICATION FILED JAN. 16, 1911.

995,249.

Patented June 13, 1911.



Witnesses:
Josephine
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Inventor:
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UNITED STATES PATENT OFFICE.

FREDERICK GOSS, OF MILLICENT, SOUTH AUSTRALIA, AUSTRALIA.

ALARM-CLOCK.

995,249.

Specification of Letters Patent. Patented June 13, 1911.

Application filed January 16, 1911. Serial No. 603,016.

To all whom it may concern:

Be it known that I, FREDERICK GOSS, a subject of the King of Great Britain and Ireland, &c., residing at Millicent, in the State of South Australia, Commonwealth of Australia, have invented certain new and useful Improvements in and Relating to Alarm-Clocks; 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 improvements in electric alarm clocks, and has for its object to sound an alarm at predetermined times for calling attention to duties or appointments.

With the above and other objects in view as will appear, the invention consists in certain combinations and arrangements of the parts hereinafter fully described, and the novel features thereof will be particularly pointed out in the appended claims.

For a clear understanding of the invention, reference will be had to the accompanying drawings illustrating the preferred embodiment thereof, and in which drawings like characters of reference indicate corresponding parts.

Figure 1 is a front elevation of a clock embodying my invention, certain parts being broken away to more clearly show the construction; and Fig. 2 is a side elevation of same partially in section. Figs. 3 and 4 are representations in elevation and section of a modification of my device.

α represents a clock dial showing the usual hours 1 to 12 or any other suitable marking. Arranged around the dial and preferably attached to the clock is an annular rim c of vulcanite or other insulation material, which rim is provided with a plurality of slots in which are slidably mounted contact plates i adapted to be engaged by a roller h on an arm g carried by the hour hand f of the clock. Secured to the rim c and inclosing the face of the clock is a cover or protector b' having a glass center or opening b for exposing the dial of the clock.

A handle j pivotally connected to the clock at j' is connected to each contact plate i by means of a pin and slot for actuating the contact plate, and each handle is provided with a mark indicating the time said roller h will pass the contact plate to which the handle is attached. The contact plates i are

in slidable engagement with a metal band or bus bar l fixed to the clock and connected in circuit with the hour hand f of the clock.

When the handle j is thrown upwardly, its contact plate is projected beyond the face of the rim c to be engaged at a predetermined time by the roller h for closing the electric circuit to sound an alarm.

Leading from the bus bar l is a wire r which leads to a dry cell or other battery d . From the battery extends a wire s leading to a switch t which is connected to a bell e by a wire t' , and the bell is connected to the hour hand by a wire e' . Extending from the bell e are wires y and y' leading to binding posts x and x' respectively, from which extend wires y^3 and y^4 which may be connected to a remote bell for sounding a corresponding alarm.

From the foregoing it is apparent that when a contact plate is projected beyond the face of the vulcanite rim by means of its handle, that said contact plate will be engaged by the roller carried by the hour hand of the clock and the electric circuit $i, l, r, d, s, t, t', e, e', f, g$, and h will be closed and an alarm sounded.

Although the elements set forth and described are well adapted to accomplish the intended purposes, it is to be understood that slight changes in the form, proportion and minor details of construction may be resorted to without departing from the spirit of the invention.

Having fully described my invention, what I claim is:—

1. The combination with a clock of an arm rotatable with its hour hand, a plurality of slidably mounted contact bars arranged in the path of the arm but normally out of contact therewith, a lever pivotally connected to each contact bar for actuating same, a mark on each lever for indicating the time the arm will pass the contact bar, signaling means, and an electric circuit connecting the arm, contact bars and signaling means, substantially as described.

2. The combination with a clock of an arm rotatable with the hour hand, a roller on the arm, a rim of insulation material arranged around the face of the clock, a plurality of contact bars slidably mounted in the rim and arranged in the path of the roller but normally out of contact therewith, a lever connected to each contact bar by means of a pin and slot, a mark on each

lever for indicating the time the roller will
pass over the contact bar, signaling means,
an electric circuit connecting the roller, con-
tact bars and signaling means, and a frame
5 for covering said rim and having an open-
ing for exposing the clock face, substantially
as described.

In witness whereof I have hereunto set
my hand in the presence of two witnesses.

FREDERICK GOSS.

Witnesses:

CAV HUMPHRIS,
JIM WILFRED LEN O'DONNELL.

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