No. 878,087. PATENTED FEB. 4, 1908.

E. PLOUDRE.

ELECTRIC ALARM OPERATED BY ALARM CLOCKS.

APPLICATION FILED MAR. 20, 1907.

2 SHEETS—SHEET 1.

Fig. 1.

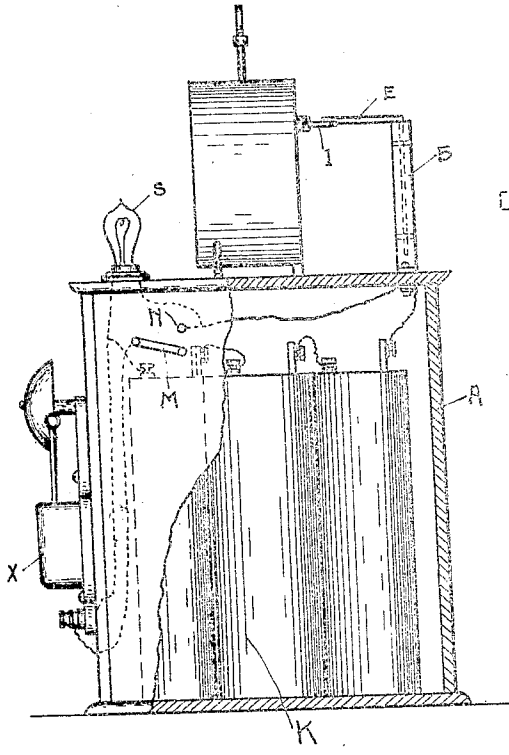

Fig. 2.

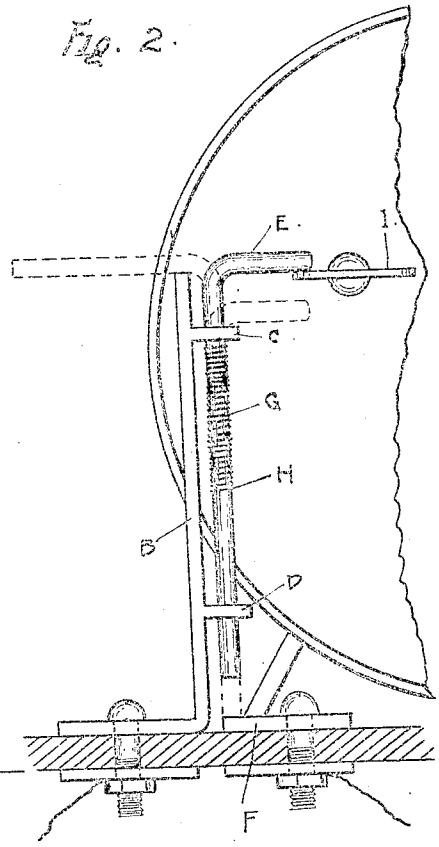

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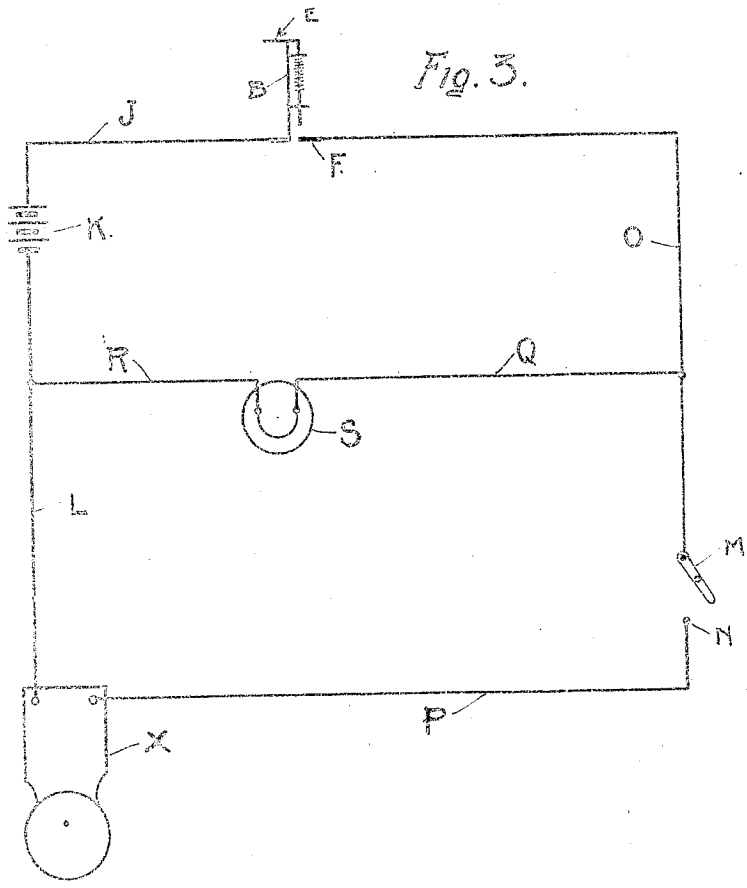
Fig. 3.



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EDWARD PLOUDRE, OF ST. LOUIS, MISSOURI.

ELECTRIC ALARM OPERATED BY ALARM-CLOCKS.

No. 878,087. Specification of Letters Patent. Patented Feb. 4, 1908.

Application filed March 20, 1907. Serial No. 363,445.

To all whom it may concern:

Be it known that I, EDWARD PLOUDRE, a citizen of the United States, residing at St. Louis, State of Missouri, have invented certain new and useful Improvements in Electric Alarms Operated by Alarm-Clocks; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings.

My invention relates to new and useful improvements in alarm and lighting attachments for clocks, and is used in connection with clocks having a time alarm.

The object of my invention is to provide an electric bell and incandescent light, so constructed that both will be put into operation either at will or at a predetermined time.

A further object is to provide means by which the electric bell may be put out of circuit and silenced, and the incandescent light remain lighted; or the incandescent light put into operation at will or a predetermined time.

With these objects in view the invention consists of an inclosure within which is provided a series of cells, and on the outside of which is an electric bell, a circuit closing switch for the bell, and on top of which is placed an incandescent light, all connected up with a spring switch on top of the inclosure, the terminals of which switch are connected and disconnected by a detachable arm which is adapted to be placed on the alarm stem of an ordinary alarm clock placed on top of the inclosure.

In the accompanying drawings Figure 1, represents a side, part sectional view of the invention. Fig. 2, a back view of the spring switch when circuit is open and Fig. 3, represents the circuit.

Upon an inclosure A. which may be made of wood or other suitable material is erected an upright metal post B. having two perforated projections C. and D. upon it through which slides easily an armed metal rod E. which is connected with the projection C. and held in contact with an electrode F, when circuit is closed, by means of a spring G which is soldered to rod E. at a point H. half way up the rod E. The clock shown in drawing is an ordinary alarm clock, having an alarm stem I. on the back of it and upon which the arm of rod E. rests when the spring switch is open.

When the alarm stem of clock I moves at a predetermined time the metal arm E. is forced down by the spring G. forming contact with electrode F. which is one terminal of spring switch, the metal post B. being the other, closing the switch.

A series of cells K. are provided within the inclosure and connected to the metal post B. by means of the wire J. and to an electric bell X., fastened on outside of the inclosure by means of the wire L. The electric bell X. is connected to the terminal F. by means of the wire P. connected to the contact N. and the switch M., which are provided on the side of inclosure and the wire O.

An incandescent light S. provided for on top of the inclosure and in front of the clock in order that the dial may be seen in a dark room or at a distance, is placed in circuit, by a wire Q. connected to the wire O, at a point between the small electric bell switch M. and the terminal F. of the spring switch and a wire R. connected to the wire L. between the cells K. and the electric bell X.

When the alarm clock is set to the desired time the arm E. is placed on top of the alarm stem I. which, when it turns, causes the arm E. to drop touching the electrode F. and bridging the circuit, which causes the bell X. to ring and the light S. to burn, if the bell is not desired it may be thrown out of the circuit by moving the switch M. from the contact N. If neither the light nor the bell is desired, both may be thrown out of the circuit by laying the arm E. on the top end of post B.

Having fully described the invention what is claimed as new is,

The combination with an alarm clock of a vertical metallic post having two perforated projections upon it, one perforated projection near each end; an armed metallic rod adapted to close a circuit by being forced down through the said perforated projections by a spring, the arm of the metallic rod adapted to be placed on the top of the alarm stem of the clock and released when the alarm of the clock is set free; a spring connected at one end to the upper perforated projection of the

vertical metallic post and the other end connected to the armed metallic rod, adapted to force the armed metallic rod down and in contact with one of the terminals of an electric circuit; and an electric circuit including a source of electricity, an incandescent light, an electric bell, and a circuit closing switch between the electric bell and the source of electricity, all electrically connected, the terminals of which circuit are closed by the armed metallic rod descending.

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

EDWARD PLOUDRE.

Witnesses:
WM. REMAKLUR,
H. G. CLEAVELAND.