

No. 896,930.

PATENTED AUG. 25, 1908.

E. McCOMB.
ALARM CLOCK.

APPLICATION FILED JAN. 27, 1908.

2 SHEETS—SHEET 1.

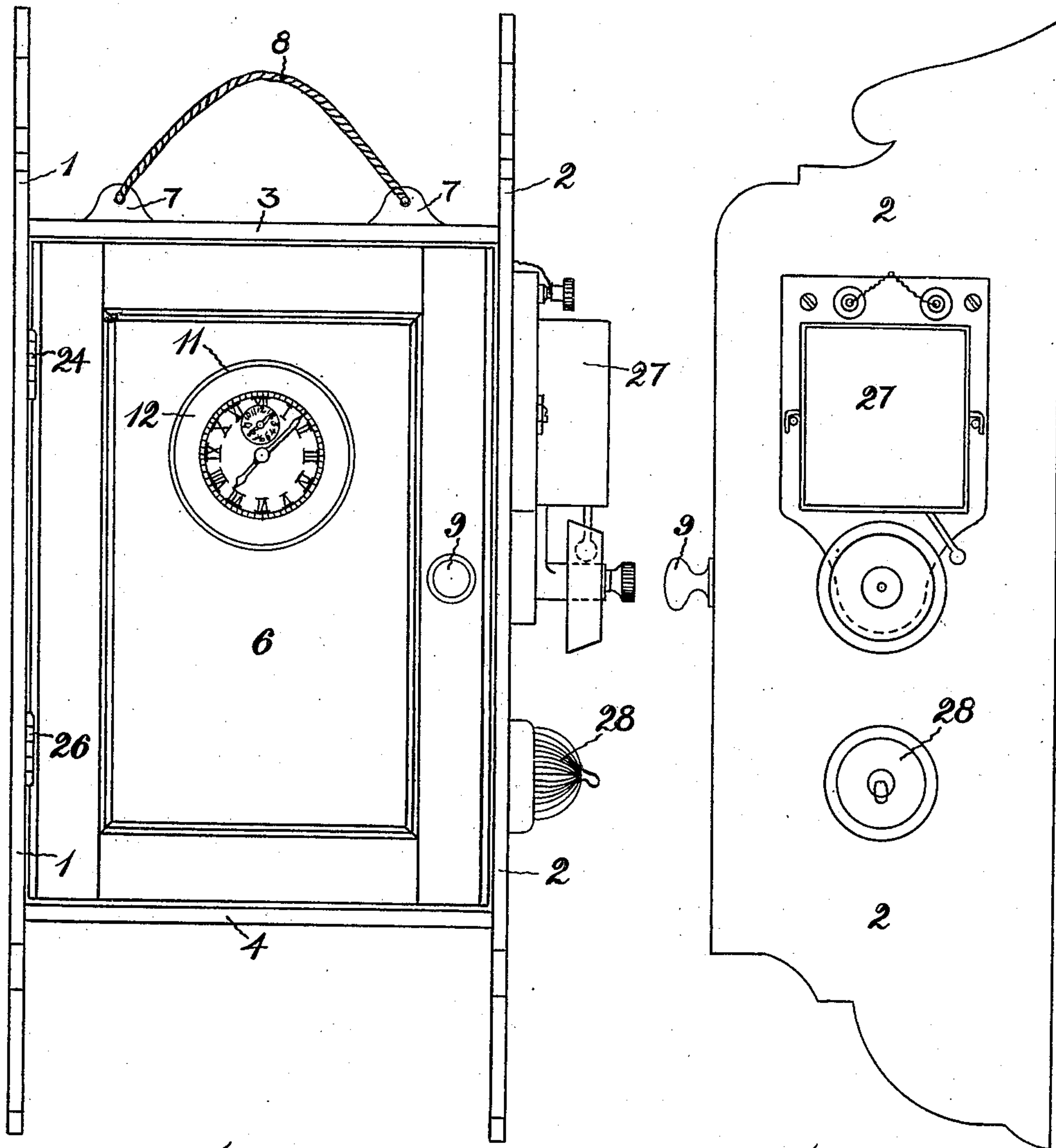


Fig. 1.

Witnesses:
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Fig. 2.

Inventor:
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by *Chas. Wendale*
Attorney.

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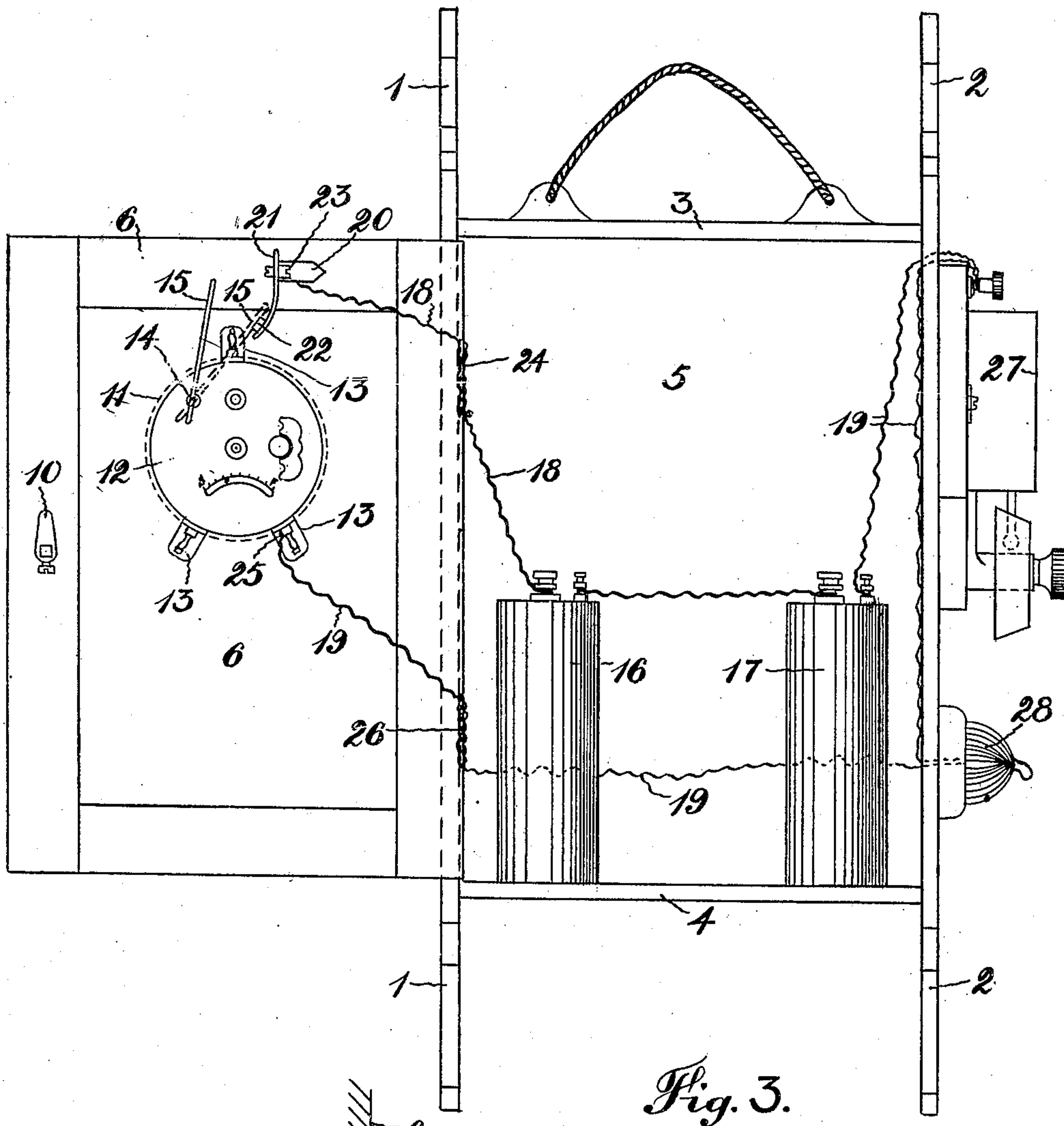


Fig. 3.

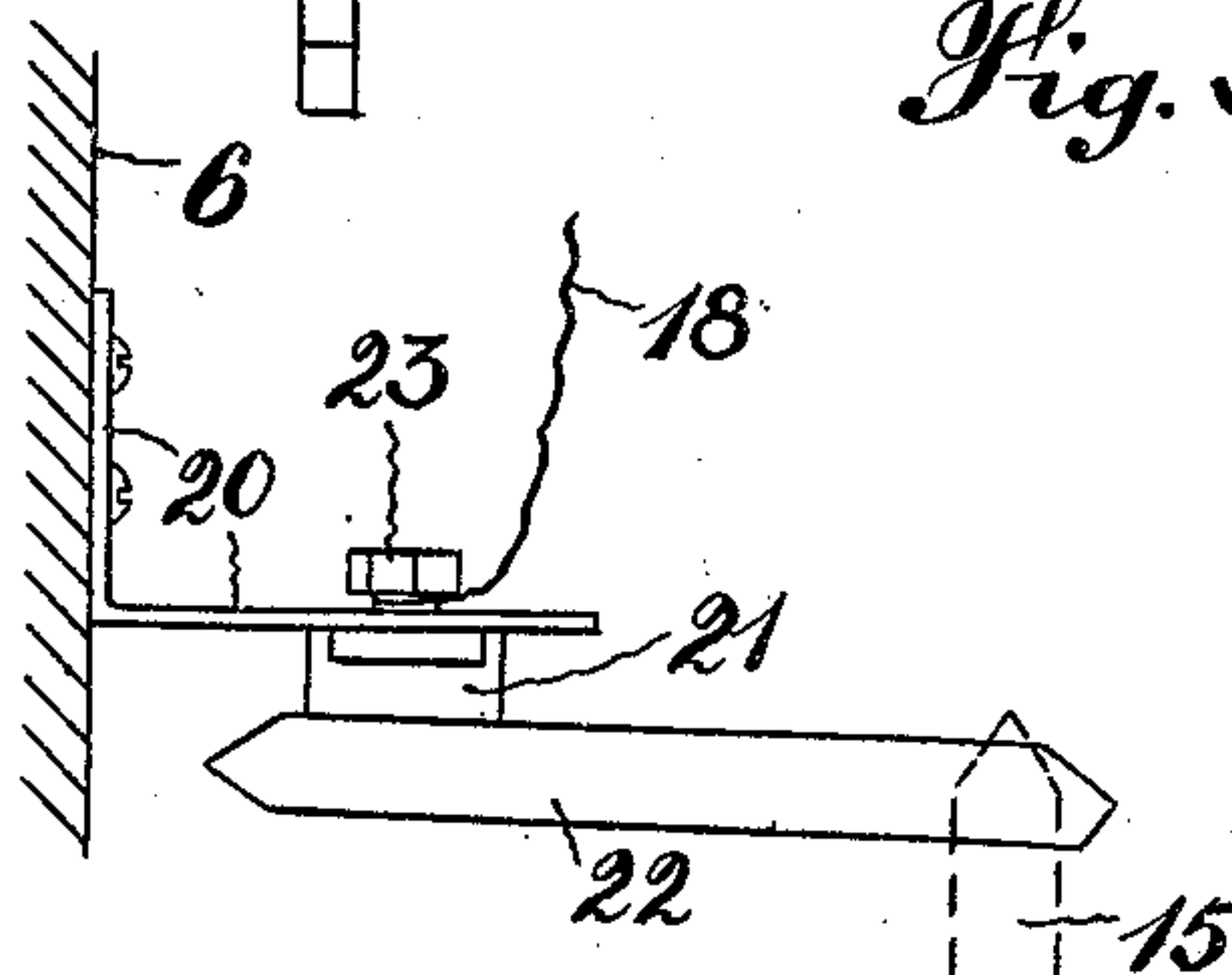


Fig. 4.

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UNITED STATES PATENT OFFICE.

ELIJAH McCOMB, OF JOHANNESBURG, TRANSVAAL.

ALARM-CLOCK.

No. 896,930.

Specification of Letters Patent.

Patented Aug. 25, 1908.

Application filed January 27, 1908. Serial No. 412,805.

To all whom it may concern:

Be it known that I, ELIJAH McCOMB, a subject of the King of Great Britain, and resident of Johannesburg, Transvaal, have invented certain new and useful Improvements Relating to Alarm-Clocks, of which the following is a specification.

This invention has reference to alarm clocks, and has for its object to combine with such a clock an electric bell in such a manner that the clock can be set to give the alarm at any time and that the bell will continue to ring until the circuit is opened.

In carrying out my invention I may employ any ordinary and suitable alarm clock or timepiece. The alarm spring of this timepiece is utilized to make electrical contact at any desired time so as to close the electric bell circuit. The requisite current for actuating the bell may be derived from any suitable form of dry or wet cell. The cell or cells and wires or conductors are preferably inclosed in a suitable (preferably ornamental) cabinet or case, in an aperture in the front (which may be in the form of a hinged door) of which the clock or timepiece may be conveniently arranged so as to serve as an ordinary timepiece. The bell may be fixed to one side of the cabinet and at the exterior thereof and be interposed in the circuit in the ordinary manner so that it serves to give the alarm when the circuit is closed. In the circuit I interpose any suitable form of switch. This switch may be conveniently located on the side of the cabinet below the bell. The switch serves for opening the circuit after it has been closed by or through the medium of the timepiece when the alarm mechanism comes into operation at the set time.

My invention will now be further described by aid of the accompanying drawings, in which

Figure 1 represents the contrivance in front elevation. Fig. 2 in side elevation. Fig. 3 an elevation of the cabinet with the door open, and Fig. 4 is a detail of the device actuated by the alarm spring, which serves for closing the circuit when the alarm mechanism of the timepiece is released.

The cabinet or case, which may be of any desired ornamental design, is shown consisting of the two sides 1, 2, the top and bottom 3, 4, the back 5, and the hinged front or door 6.

7 are two brackets to which is attached a cord, chain or its equivalent 8, for hanging the cabinet on a nail or the like. If pre-

ferred the cabinet may be made in the form of a stand. The door 6 is fitted with a handle 9 and catch 10.

11 represents an aperture formed in the door 6 and 12 an ordinary alarm clock with the alarm bell removed. This clock 12 is shown fixed to the back of the door 6 by means of brackets 13 attached to the clock casing.

To the arbor or spindle 14 of the alarm spring is attached a plate or piece of metal 15 which serves, as hereinafter described, to close the circuit when the alarm spring is automatically released at the time at which the alarm mechanism is set to come into operation.

16, 17, represent a battery of two cells in parallel; they may be either wet or dry. One or more of such cells may be employed as may be preferred or found necessary to provide a sufficiently powerful current to ring the bell.

18, 19 represent the wires or conductors.

On the back of the door 6 is fixed a bracket 20—see Figs. 3 and 4—to which is attached a plate or piece of metal 21. On this latter plate 21 is attached another plate or piece of metal 22 with which the plate or piece of metal 15 fixed to the arbor 14 of the alarm spring makes contact to close the circuit when the alarm mechanism of the clock is released. The wire 18 is attached to the bracket 20 by means of the contact screw 23. This wire 18 is preferably severed and one end is attached to one leaf of the hinge 24 and the other end to the other leaf of the hinge, and then to one pole of the cell 16. The wire 19 from the opposite pole of the other cell 17 is attached to the clock case 12, as indicated at 25 in Fig. 3. This wire 19 is also severed, one end being attached to one leaf of the other hinge 26 and the other end attached to the other leaf.

27 represents an electric bell of any ordinary and suitable construction, and 28 an ordinary switch, both of which are placed in the circuit 18, 19, in the ordinary or well known manner. The bell 27 and switch 28 are, as shown, preferably fixed on one side of the cabinet at the exterior thereof.

The device operates in the following manner:—The alarm spring having been wound and the alarm mechanism set in the usual manner, the plate or piece of metal 15 is placed in the position in which it is shown in full lines in Fig. 3. The switch 28 is placed

in such a position that the circuit will be closed when the alarm mechanism is released and the plate 15 assumes the position in which it is shown in dotted lines in Fig. 3, in contact
5 with the plate 22. The bell 27 then continues to ring until such time as the circuit is opened, which may be accomplished by means of the switch 28. The mechanism is re-set by moving the plate 15 back into the
10 position in which it is shown in full lines in Fig. 3 and replacing the switch 28 in such a position that the circuit would be closed through said plate 15 and switch 28 when the alarm mechanism is again released. It will
15 be understood that the alarm spring does not unwind and serves merely to place plate 15 in contact with plate 22.

What I claim as my invention and desire to protect by Letters Patent is:—

20 In a device of the nature described, in combination, the cabinet provided with the hinged

door 6 in which is formed an aperture 11, the alarm clock 12 fixed in said aperture 11, the means for suspending the cabinet comprising the brackets 7 and cord 8, the fastener 9 for
25 the door, the cells 16, 17 located in the cabinet, the conductors 18, 19, the bell 27 and the switch 28 fixed to the outside of the cabinet and interposed in the electric circuit, the contact maker fixed to the door 6 and com-
30 prising the bracket 20 and plates 21, 22, and the plate 15 attached to and actuated by the alarm spring spindle 14 to close the circuit when the alarm mechanism is released, as
35 set forth.

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

ELIJAH McCOMB.

Witnesses:

CHAS. OVENDALE,
R. OVENDALE.