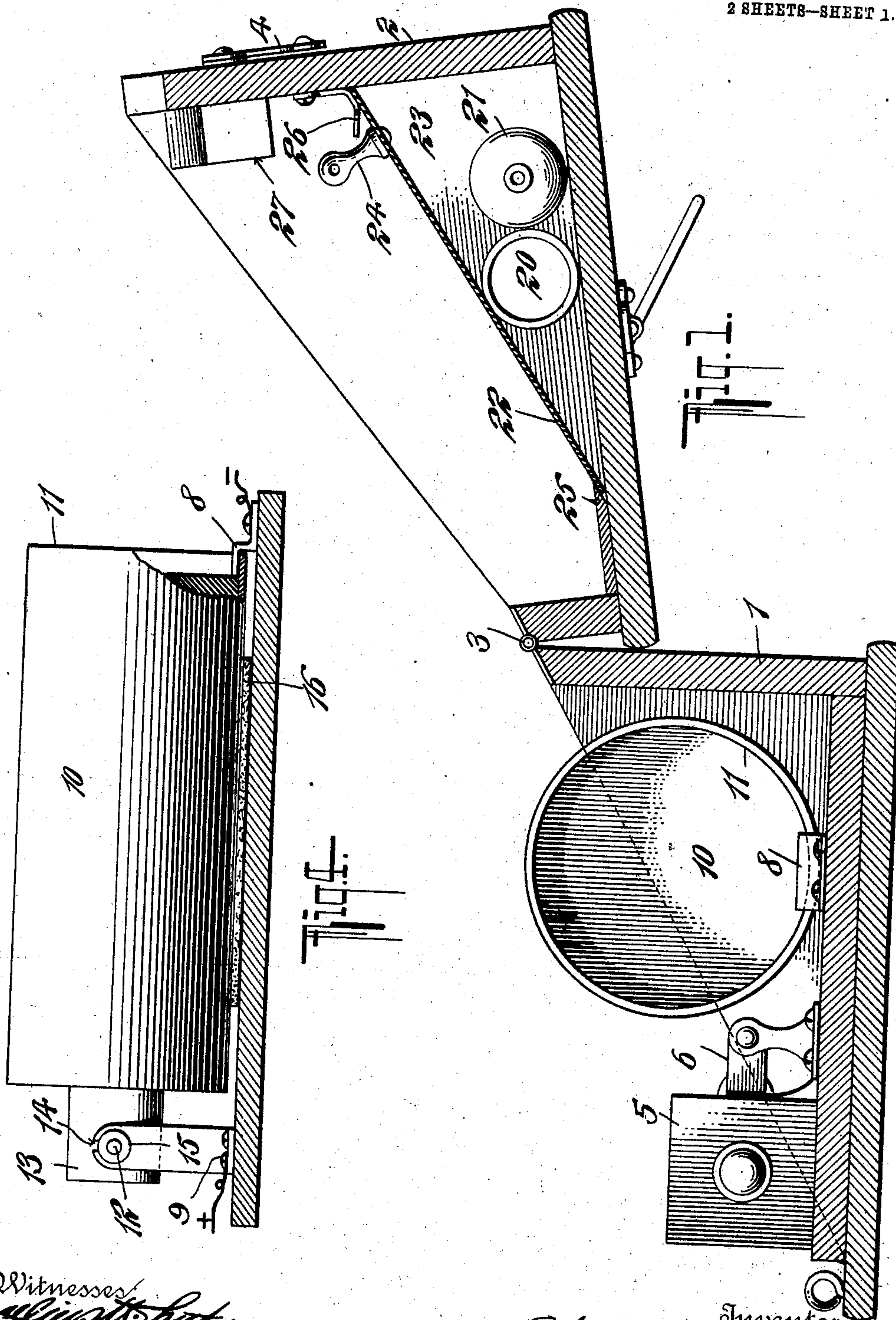


No. 889,542.

PATENTED JUNE 2, 1908.

E. T. OTTO.
ELECTROMEDICAL BATTERY.
APPLICATION FILED AUG. 15, 1907.

2 SHEETS—SHEET 1.



Witnesses
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Henrietta E. Hockman

Inventor
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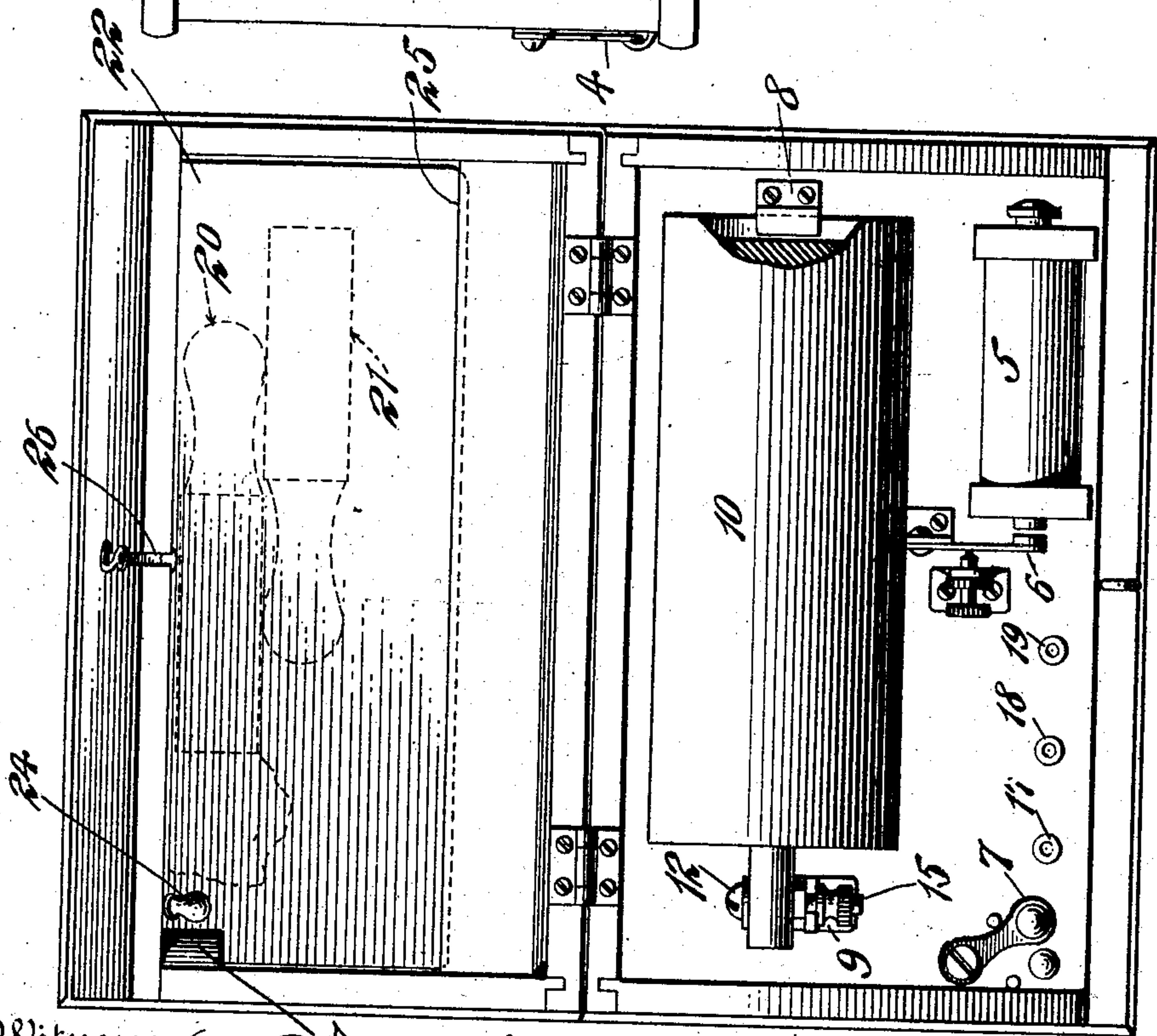
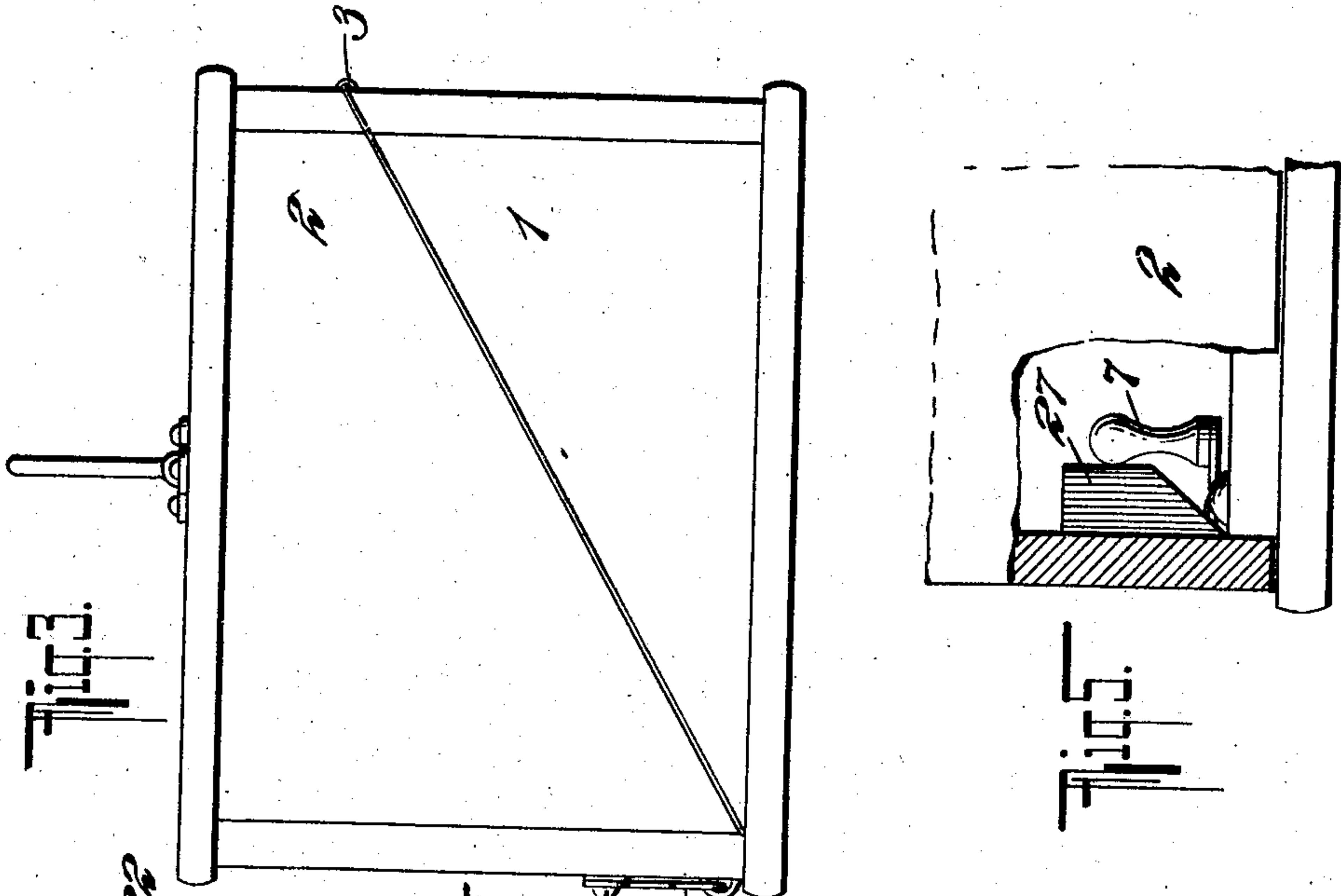
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2 SHEETS—SHEET 2



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UNITED STATES PATENT OFFICE.

EDMUND T. OTTO, OF JERSEY CITY, NEW JERSEY, ASSIGNOR TO OTTO MANUFACTURING COMPANY, OF JERSEY CITY, NEW JERSEY, A CORPORATION OF NEW JERSEY.

ELECTROMEDICAL BATTERY.

No. 889,542.

Specification of Letters Patent.

Patented June 2, 1908.

Application filed August 15, 1907. Serial No. 388,594.

To all whom it may concern:

Be it known that I, EDMUND T. OTTO, a citizen of the United States, residing in the State of New Jersey, county of Hudson, and city of Jersey City, have invented certain new and useful Improvements in Electro-medical Batteries, of which the following is a full, clear, and exact specification.

My invention relates to certain new and useful improvements in electro-medical appliances, and more especially to portable electro-medical batteries, the object being to produce an article which shall be compact and neat in appearance, easily manipulated, unlikely to get out of order, and inexpensive in construction.

It consists in the combinations and arrangements of parts hereinafter more particularly described, and for more complete illustration reference is made to the accompanying drawings, wherein

Figure 1 is a side sectional view of the case or cabinet containing the various parts. Fig. 2 is a top plan view thereof. Fig. 3 is a side view of the case closed. Fig. 4 is a view, partly in section, of the dry battery and supporting connections; and Fig. 5 is a detail view of the automatic circuit opener or switch.

Like reference numerals indicate corresponding parts in the different figures of the drawing.

The numeral 1 indicates the lower section of the case or cabinet, and 2 the upper section hinged thereto as at 3. The two sections of the case are so proportioned as to give a maximum display when the case is opened, as well as to give a firm foundation for the immovable parts and a commodious compartment for the various electrodes, accessories, or movable parts. The cabinet is retained closed by a catch of any well known type, as at 4.

Upon the bottom of the case or base 1 within the side walls thereof is secured in any well known manner a vibrator coil 5, and the terminals of the primary coil thereof are connected through the vibrator 6 and switch 7, etc., to the contacts 8 and 9, secured firmly to the base as shown. The intermediate connections are not shown, as they are well known in the art.

A cylindrical dry cell 10 is employed to operate the coil and the contacts 8 and 9 form part of the electric circuit, as well as serve

for supporting fixtures for the cell. The cell is secured in place as follows: The edge 11 of the outside or zinc shell of the battery is slipped under the clip 8, and the bolt 12 on the carbon 13 engages the upright contact 9 at the other end. The bolt 12 slides down into a slot 14 in said upright, and a nut 15 serves to insure a good contact. I find it desirable to insert a piece of felt 16 or other similar material between the base board and the cell, as this insures a firm contact and prevents movement of the dry cell. The secondary terminals of the coil are connected to sockets 17, 18, 19 in any well known manner and may be bridged in any desired way.

The battery is designed for use with a number of electrodes, such, for instance, as the hand electrodes 20, 21. These are adapted to be connected to the terminals 17, 18, 19 by flexible cords in the usual manner, and I further provide a foot plate or foot electrode 22, which is adapted to form one wall of the accessory compartment 23 in the top 2 of the cabinet. This electrode consists of a metallic plate provided with a connection post 24 at one corner thereof, and is held in place in the cabinet by the sliding of one side thereof under a projection 25, the other side being engaged by a hook 26 on the wall of the case. It may easily be removed and connected to the terminals 17, 18, 19, and used in the well known manner.

Inside the upper section 2 of the cabinet, so as to contact with the stud of the switch 7, is secured a beveled block 27, and this is arranged that upon the closing of the cabinet the switch is opened, and thus any chance of exhausting the cell by forgetfulness after using is prevented.

It is obvious that parts of my device may be modified more or less to conform to individual taste without departing from the spirit of my invention, and I do not mean to limit myself to the exact construction shown and described, but

What I claim and desire to secure by Letters Patent is:

1. An electro-medical battery comprising a cabinet having upper and lower sections, a coil and operating cell, and an electrode or accessory compartment formed in part by the walls of the cabinet and by one of said electrodes.

2. An electro-medical battery comprising a cabinet having upper and lower sections

hinged together, a vibrator coil and operating cell secured to the lower or base section, and a compartment triangular in shape in the upper section formed in part by the walls thereof and by one of said electrodes.

3. An electro-medical battery comprising a base, a vibrator coil and operating cell, and means for securing said cell to said base, which means comprise a clip engaging the rim of said cell, and a standard engaging one of the poles thereof, said clip and said standard forming part of the circuit of the battery.

4. An electro-medical battery comprising a cabinet having upper and lower sections, a coil and operating cell secured to the lower section, and an electrode or accessory compartment formed in part by the upper section and one of said electrodes, the securing means for said operating cell forming part of the circuit of the battery.

5. An electro-medical battery comprising a cabinet having upper and lower sections, a coil and operating cell secured to the lower section, an electrode or accessory compartment formed in part by the upper section and one of said electrodes, and means for automatically opening the electric circuit upon the closing of the cabinet.

6. An electro-medical battery comprising a cabinet having upper and lower sections

hinged together, a vibrator coil and operating cell secured to the lower or base section, a triangular-shaped compartment in the upper section formed in part by the walls thereof and by one of said electrodes, and means for automatically opening the circuit upon the closing of the cabinet.

7. An electro-medical battery comprising a base, a hinged cover therefor, a vibrator coil and operating cell secured to said base, a horizontally-pivoted switch opening the electric circuit, and a beveled member adapted to contact with and open said switch upon the closing of the cover.

8. An electro-medical battery comprising a cabinet having upper and lower sections hinged together, the upper surfaces of which sections, when open, lie in substantially the same plane, a vibrator and operating cell secured to the base section, an accessory compartment in said upper section, and a cover for said accessory compartment which likewise constitutes a foot electrode.

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

EDMUND T. OTTO.

Witnesses:

FERDINAND SCHAUB,
FRANK J. SCHAUHALS.