

(No Model.)

2 Sheets—Sheet 1.

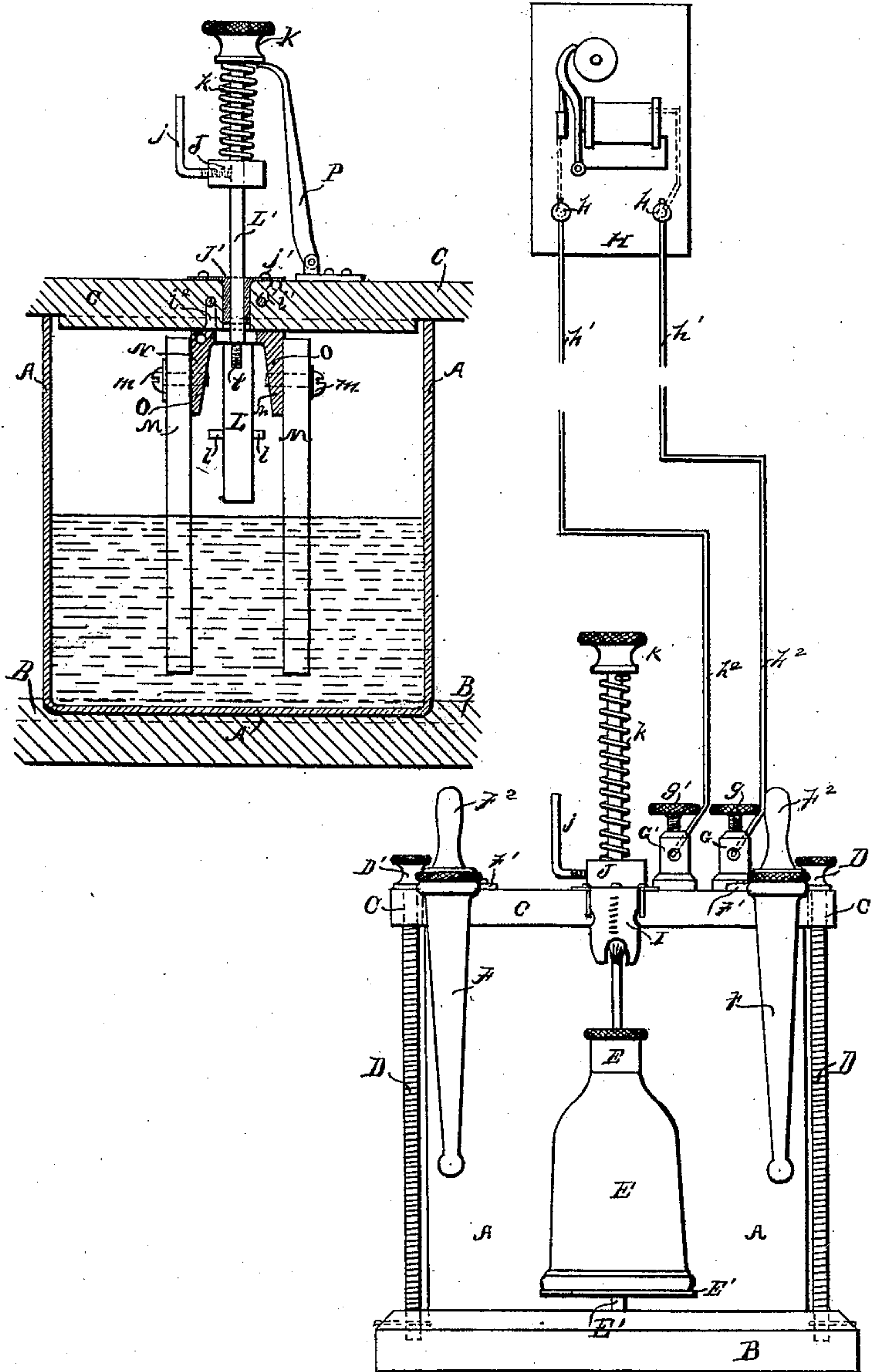
D. MISELL.
ELECTRIC BATTERY.

No. 362,584.

Patented May 10, 1887.

Fig. 6.

Fig. 7.



Witnesses
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by
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UNITED STATES PATENT OFFICE.

DAVID MISELL, OF NEW YORK, N. Y.

ELECTRIC BATTERY.

SPECIFICATION forming part of Letters Patent No. 362,584, dated May 10, 1887.

Application filed September 15, 1885. Serial No. 177,150. (No model.)

To all whom it may concern:

Be it known that I, DAVID MISELL, a citizen of Great Britain, and a resident of the city, county, and State of New York, have invented certain new and useful Improvements in Electric Batteries, of which the following is a specification.

My invention relates, primarily, to electric batteries peculiarly constructed for medical, domestic purposes, and cigar-lighting.

In the drawings, Figure 1 represents a front view of the battery complete, with a call-bell shown in connection thereto. Fig. 2 represents a partial transverse section, showing the spiral spring around the upright spindle extended, thereby keeping the zinc element above the liquid. Fig. 3 represents a partial transverse section of battery, showing the spiral spring around the upright spindle compressed, thereby allowing the zinc element to be either wholly or partially immersed in the liquid. Fig. 4 represents a top view of battery. Fig. 5 represents a view of the top or cover inverted, with the attachments thereto, the zinc and carbon elements, also the electrical connections therefor. Fig. 6 represents a partial transverse section of battery, showing arrangements of elements and their connecting parts; also the above named and described spiral spring in partial compression, with attachments to use in combination with suitable mechanism for burglar-alarm purposes, substantially as shown and described.

To enable those skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe my invention more in detail.

Similar letters refer to similar parts throughout the different views.

A represents the glass jar for the battery-liquid; B, the base in which it rests; C, the cover or top, held thereto by spiral springs D D, screwed into nuts D' D', as shown, *d d* being slots cut in the aforesaid cover C to allow the springs D D therein.

E is a lamp to use in connection with the battery for gas-lighting and other purposes.

E' is a stand on which the above-named lamp E rests, and which is made fast to the base B, as shown.

F F are dip-wells made fast by attachments F' F' to the cover or top C, and in which are the dips F² F² for cigar-lighting, in combination with the battery.

G G' are binding-posts made fast to the cover C and the binding screws *g' g* therefor, *h² h²* being line-wires in connection with the binding-posts G G', running to one or more bell attachments at H, through binding-posts *h h* and wires *h' h'*, substantially as shown and described.

I is an attachment to the cover C for protecting the platinum-wire spiral I', as shown.

i is a wire running from the attachment *o*, through the cover C, to the outside thereof, where the platinum spiral I' is connected thereto.

j is a return-wire from the above spiral I' to the attachment J'. An electrical connection is thereby made when the zinc element L is immersed in the liquid.

j' is a wire on the under side of the cover C, by means of which electrical connection is made between the binding-posts G G', the carbon M M, and zinc elements L, (when immersed in the liquid,) through the attachments *o* and J' to the spindle L', when the binding-posts G G' are electrically connected, substantially as shown and described.

J is a washer or collar having a binding wire or screw, *j*, by which it is made secure to and adjustable on the spindle L' to compress the spring K when the battery is in combination with the burglar-alarm mechanism and attachment P, Fig. 6, substantially as shown and described.

K is a nut and push-button attached to L' by screw-threads thereon; *k*, a spiral spring around the spindle L', which is raised thereby and to which the zinc element L is made fast by screw I', the object being to keep the aforesaid zinc element L out of the liquid when not in use.

The carbon elements M M are held in position by screws *m m* to *o o*, which is secured to the under side of cover C by means of screws *o' o'*, as shown.

l' l' are rubber pencils driven into holes drilled in zinc element L to keep the above-named zinc element L from making an electrical

cal connection through the carbon elements M M, if they should, by accident or otherwise, come in contact.

J' is a bearing for the spindle L', before described, to move up and down therein, attached by rivets *j' j'* to the top of the cover C, through which attachment J' the electrical connection is made to the binding-post G', held thereon by screw *g*³, substantially as shown and described. The wire *i'* is connected or soldered to J', and connects it with the platinum spiral I' through the cover C, substantially as shown and described.

The electrical connection is made (when the zinc element L is immersed in the liquid) from the above-described zinc element L to the spindle L', to attachment J', thence to the wire *i'* and platinum-wire spiral I', to attachment *o* by the wire *i*, to the carbon elements M M and liquid, thus making a complete circuit through the above-named arrangement, substantially as shown and described. The electrical connection is also made (when the zinc element L is immersed in the liquid) from this afore-described zinc element L through spindle L'

to attachment J', thence to the binding-post G' and circuit or line wire to bell, hand-electrodes, or other purposes, from which attachment connection is made to binding-post G, screw *g*², and wire *i*² to attachment *o*, carbon elements M M and liquid, thus making a complete circuit through the above-named arrangement, substantially as shown and described.

Having described my invention, what I claim as new is—

In an electric battery, the catch P, spindle L', push-button K, spiral spring *k*, adjustable collar J *j'*, wires *i i'*, attachment *o o*, and the spring-clamps D D', in combination with a battery-jar, wooden base and cover, zinc, carbon, and platinum coil, substantially as and for the purpose described.

In testimony that I claim the foregoing as my invention I have signed my name, in presence of two witnesses, this 17th day of August, A. D. 1885.

DAVID MISELL.

Witnesses:

WALLACE METCALF,
WILLIAM A. SWEETSER.