

J. KIDDER.
Reservoir-Electrodes.

No. 164,185.

Patented June 8, 1875.

Fig. 1.

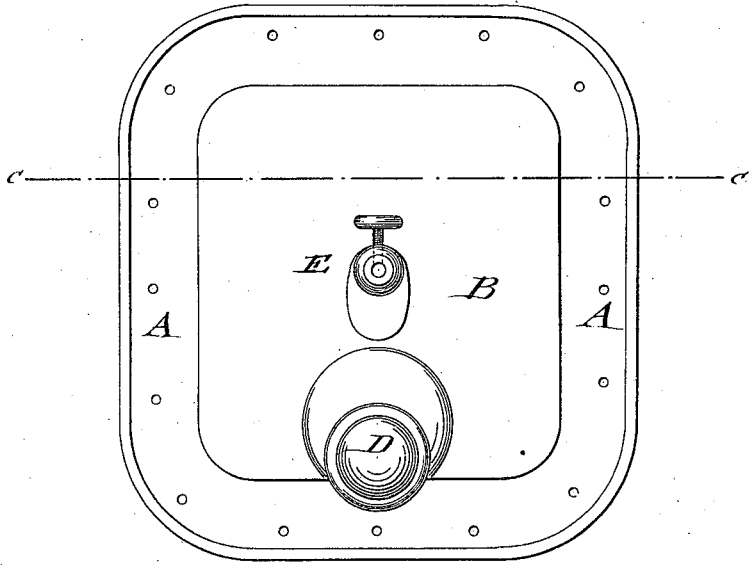
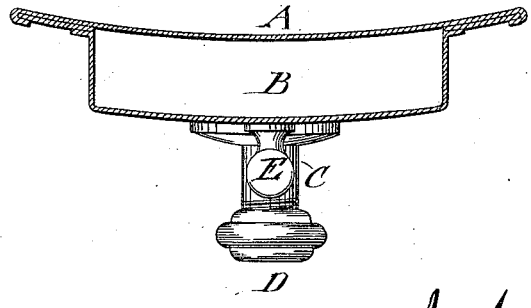


Fig. 2.



WITNESSES:

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UNITED STATES PATENT OFFICE.

JEROME KIDDER, OF NEW YORK, N. Y.

IMPROVEMENT IN RESERVOIR-ELECTRODES.

Specification forming part of Letters Patent No. **164,185**, dated June 8, 1875; application filed March 29, 1875.

To all whom it may concern:

Be it known that I, JEROME KIDDER, of the city, county, and State of New York, have invented a new and Improved Reservoir-Electrode, of which the following is a specification:

In the accompanying drawing, Figure 1 represents a front elevation of my improved reservoir-electrode, and Fig. 2 a horizontal section of the same on the line *c c*, Fig. 1.

Similar letters of reference indicate corresponding parts.

The object of my invention is to provide an improved electrode, for common exterior application, by which the disagreeable feeling or shudder produced by the contact of the cold metallic or sponge surface with the body is obviated, and thereby the application of electricity by sensitive and aged persons, and in the winter season, be rendered more comfortable and pleasant.

The invention consists of a common electrode, provided with a reservoir for hot water, and a tightly-closed orifice for keeping the contact-surface warm for application.

A in the drawing represents a common electrode for exterior use on the body, and B a reservoir, soldered or otherwise applied there-

to in a manner to conform to the size and shape of the same. The edge of the electrode is perforated in the usual manner for the attachment of sponge or other distributing agent, and the reservoir closed after being filled with hot water, through a spout-opening, C, by a tightly-fitting and packed screw-cap, D. A socket and set-screw, E, serve for attaching the battery connecting-wire.

The water being hermetically inclosed in the reservoir is kept warm for a considerable length of time, and heats the contact-surface of the electrode in such a manner that the objectionable coldness of the same is done away with, and that the electrode may be applied even by the most sensitive persons with a highly-increased feeling of comfort.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

An electrode, for common exterior application, provided with a reservoir for hot water, substantially as and for the purpose set forth.

JEROME KIDDER, M. D.

Witnesses:

PAUL GOEPEL,
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