

(No Model.)

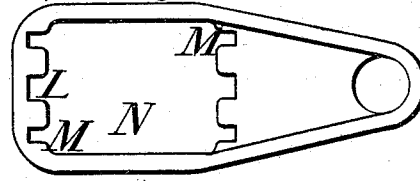
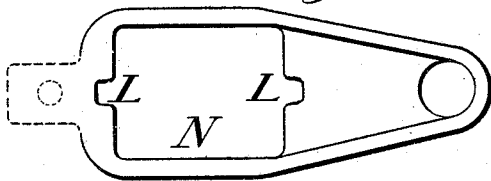
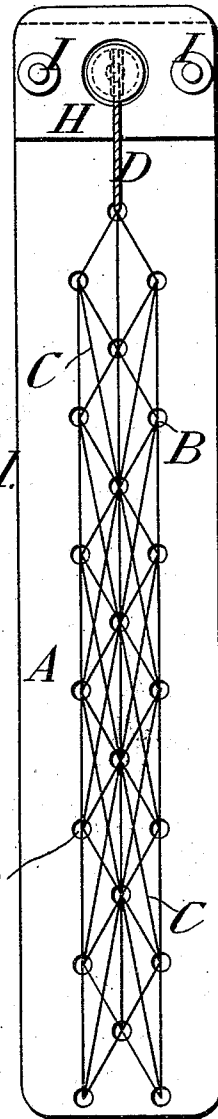
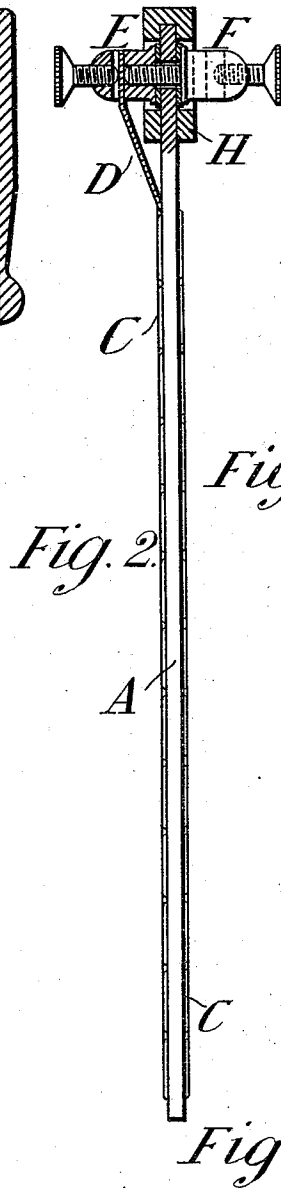
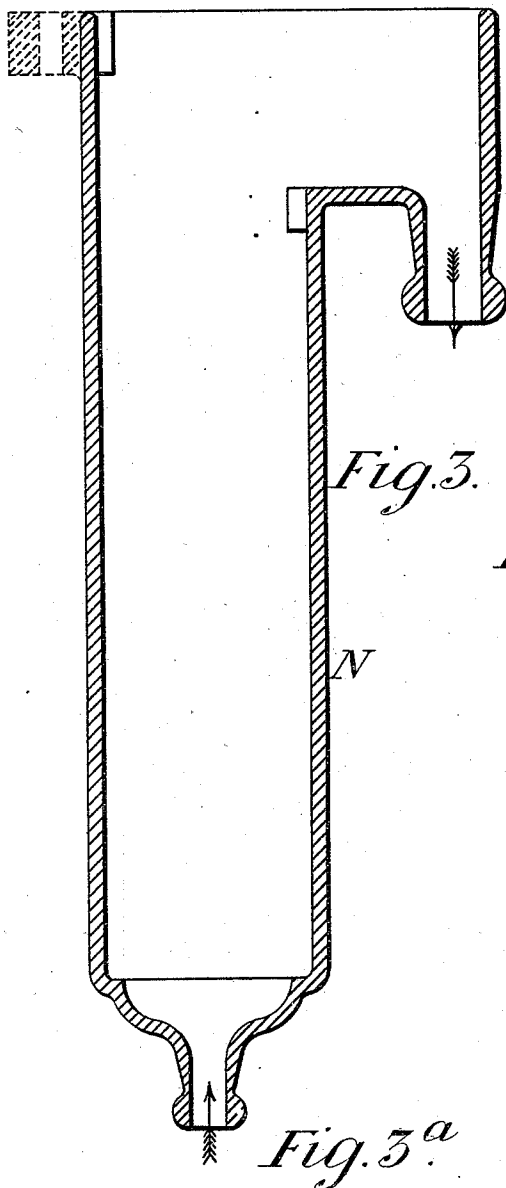
2 Sheets—Sheet 1.

E. HERMITE.

APPARATUS FOR ELECTROLYZING CHLORID SOLUTIONS.

No. 553,464.

Patented Jan. 21, 1896.



Witnesses:
Alfred S. G. G. G.
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(No Model.)

2 Sheets—Sheet 2.

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Fig. 5.

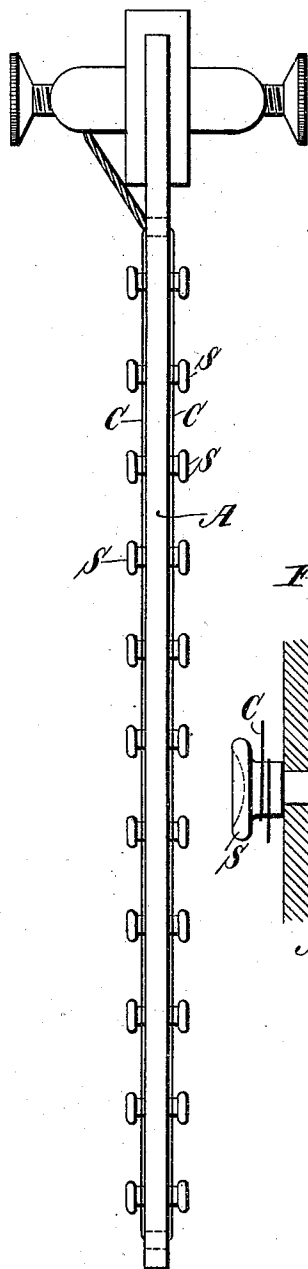


Fig. 6.

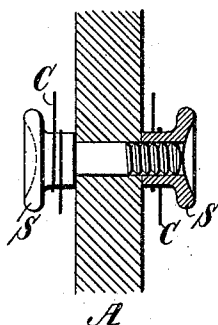
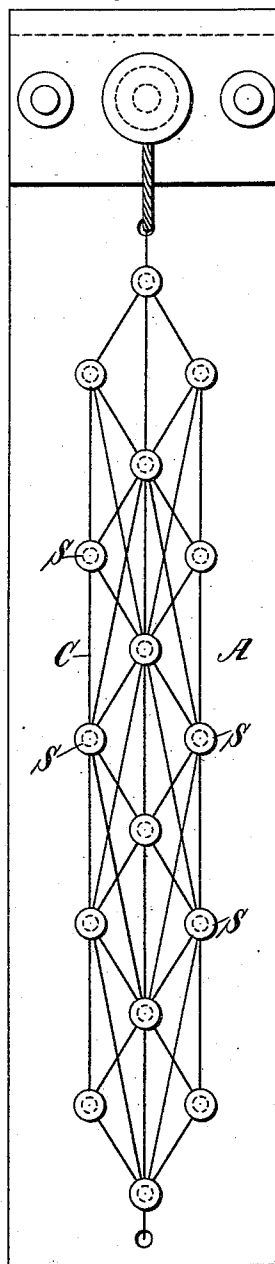


Fig. 4.



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UNITED STATES PATENT OFFICE.

EUGENE HERMITE, OF LONDON, ENGLAND, ASSIGNOR OF TWO-THIRDS TO EDWARD JAMES PATERSON AND CHARLES FRIEND COOPER, OF SAME PLACE.

APPARATUS FOR ELECTROLYZING CHLORID SOLUTIONS.

SPECIFICATION forming part of Letters Patent No. 553,464, dated January 21, 1896.

Application filed June 22, 1895. Serial No. 553,708. (No model.)

To all whom it may concern:

Be it known that I, EUGENE HERMITE, a citizen of the United States, residing at Pownall Road, Dalston, in the city of London, England, have invented certain new and useful Improvements in Apparatus for Electrolyzing Chloride Solutions, of which the following is a specification.

My present invention relates to apparatus for electrolyzing chloride solutions in order to produce a disinfecting liquid, and has for its object a more simple and effective construction of each cell of the electrolyzing apparatus, as I shall describe, referring to the accompanying drawings.

Figure 1 is a front view, and Fig. 2 is a vertical section, of an anode according to my present invention. Fig. 3 is a vertical section of the cathode-cell. Fig. 3^a is a sectional plan of the cell formed to receive one anode. Fig. 3^b is a sectional plan of the cell formed to receive one anode and two cathodes. Fig. 4 is a front view showing a modification of my invention. Fig. 5 is an edge view of the same, and Fig. 6 is a transverse sectional view to more clearly show the construction of the studs used in the modified construction.

The anode, Fig. 1, consists of a plate A of glass, ebonite or other insulating material which is not acted on by the liquid treated. It is perforated with a number of holes B, through which are passed platinum wires C, forming a kind of network strung on both sides of the plate. At the top the wires are connected in a strand D to a post E, where the strand is pinched by a screw.

The conductor from the source of electricity is pinched by a screw in the post F, which is screwed into E through a hole in the plate A. On the upper end of A is a forked guard-plate H fixed by screws I.

Instead of stringing the wires C through

holes they may be strung on studs S projecting from the plate A, as shown in the modified construction, Figs. 4, 5, and 6. The studs S project from opposite sides of the plate, and they may be fixed in the plate, as shown in the sectional view, Fig. 6, so that the stud on one side screws into the stud on the opposite side.

An anode as above described may be used with any suitable cathode. The cathode shown in Figs. 3 and 3^a is a zinc tube with inlet for the liquid at the bottom and discharge at the top, and it is made with recesses L, one on each side, as shown in Fig. 3^a, to receive one of the anode-plates A, which is slid down the recesses; or, as shown in Fig. 3^b, the tube N may be of ceramic or other insulating material, with recesses L to receive the anode and a pair of recesses M on each side to receive plates of zinc constituting the cathode.

Having thus described the nature of my said invention and the best means I know for carrying the same into practical effect, I claim—

1. An anode for electrolyzing purposes, consisting of a glass plate, and a network of platinum wires strung on said plate, substantially as described.

2. An anode for electrolyzing purposes, consisting of a glass plate, and a network of platinum wires strung on opposite sides of said plate.

In testimony whereof I have signed my name to this specification, in the presence of two subscribing witnesses, this 10th day of June, A. D. 1895.

EUGENE HERMITE.

Witnesses:

EDWARD J. PATERSON,
W. ROSSI SATTRICK.