

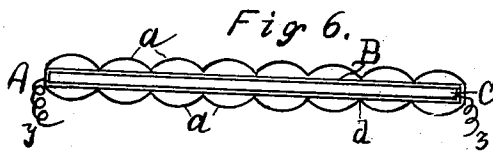
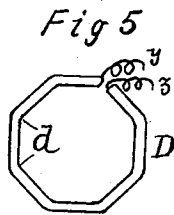
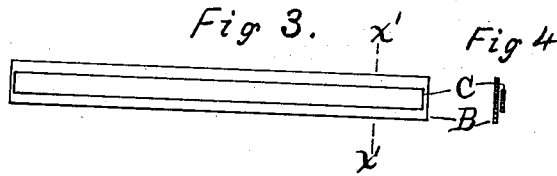
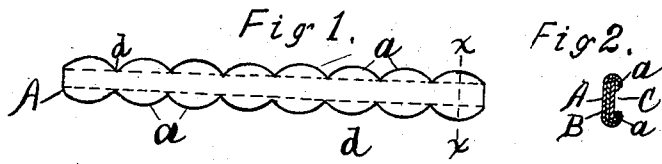
No. 742,802.

PATENTED OCT. 27, 1903.

C. W. ROBERTS.
GALVANIC BATTERY.

APPLICATION FILED JUNE 15, 1903.

NO MODEL.



Witnesses:
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UNITED STATES PATENT OFFICE.

CARLTON W. ROBERTS, OF CHICAGO, ILLINOIS.

GALVANIC BATTERY.

SPECIFICATION forming part of Letters Patent No. 742,802, dated October 27, 1903.

Application filed June 15, 1903. Serial No. 161,473. (No model.)

To all whom it may concern:

Be it known that I, CARLTON W. ROBERTS, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Galvanic Batteries, which are fully set forth in the following specification, reference being had to the accompanying drawings, forming a part hereof, and in

10 which—

Figure 1 shows the outer part of my said new battery in elevation, the broken lines indicating the lines on which the rounded teeth are bent over. Fig. 2 shows a cross-section of the completed device on a line *xx* through an opposite pair of teeth. Fig. 3 shows a strip of cloth on which is laid a strip of zinc in elevation. Fig. 4 shows a cross-section of Fig. 3 on a cutting plane *x'x'* of Fig. 3. Fig. 5 shows my completed device in the form of an octagon ring. Fig. 6 shows in elevation the three superimposed elements ready to be united into one connected structure.

Like reference-letters denote like parts throughout the views.

The object of my invention is to produce a galvanic battery which may be worn on the finger and capable of being put into action by the moisture derived from the evaporation of the finger and hand to which it is attached and capable of use for certain physical experiments and like uses.

To attain said desired ends, I construct my said new galvanic battery in substantially the following manner, namely: I take a piece of sheet-copper A of suitable dimensions and scallop or indent its edges into teeth *a*, and upon said copper device I lay a strip of cloth B, which is wide enough to lie over the base of the teeth *a*, and on the top of said cloth I

lay a strip of zinc C, narrower than the said cloth. Said parts, prepared and placed as described, are then united into one structure by turning the longitudinal edges of said cloth over the edges of said zinc and then turning the teeth *a* over said cloth and the edges of said zinc, so as to hold all of them together as one structure. The teeth of said copper are directly opposite each other and are of the same dimensions. In this instance there are on said copper strip seven narrow spaces *d*, at each of which the said strip is bent at an angle of forty-five degrees to its neighbor, which thereby brings the outer ends of said united parts opposite each other, so as to nearly touch or meet and form a ring D, while the parts between said opposite notches in length are kept straight. Said ring may be worn on the finger, and by reason of the said construction said ring is easily adapted to the varying sizes of all fingers. The terminal ends of said elements are provided with wires *y* and *z*.

What I claim is—

1. A galvanic battery consisting of a metal strip provided with dented edges holding a strip of cloth on which is a strip of zinc, said cloth folding over the edges of said zinc and said dentals folding over the edges of said cloth and zinc, substantially as specified.
2. A galvanic battery consisting of a series of superimposed sheets of electrolytic material divided into a series of straight sections bent at their junctions into angles which will form a ring, substantially as specified.

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Witnesses:

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