

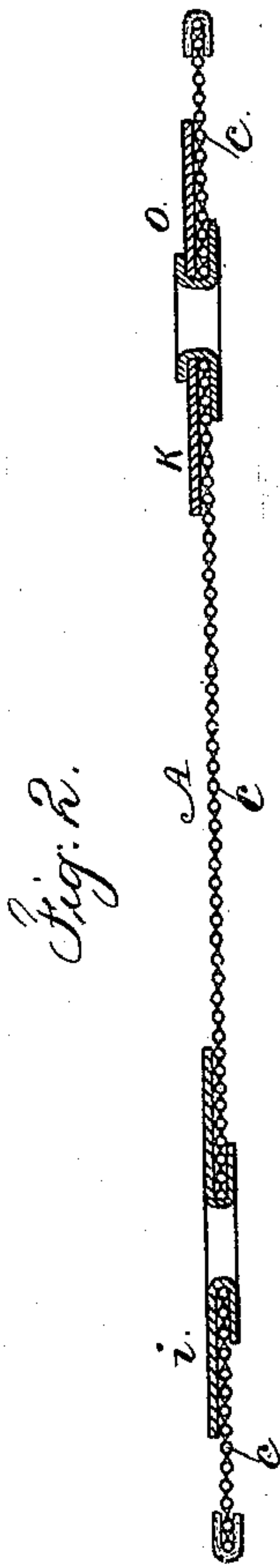
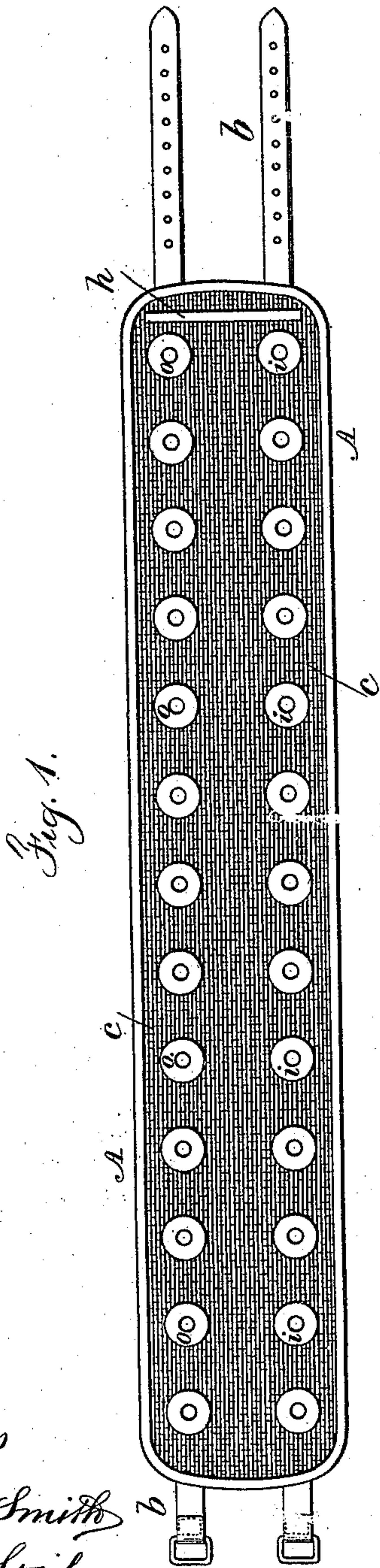
(No Model.)

J. MAYER.

GALVANIC BODY WEAR.

No. 334,879.

Patented Jan. 26, 1886.



Witnesses

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UNITED STATES PATENT OFFICE.

JOSEPH MAYER, OF YONKERS, NEW YORK.

GALVANIC BODY-WEAR.

SPECIFICATION forming part of Letters Patent No. 334,879, dated January 26, 1886.

Application filed July 23, 1885. Serial No. 172,856. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH MAYER, of Yonkers, in the county of Westchester and State of New York, have invented an Improvement in Galvanic Body-Wear, of which the following is a specification.

Belts and braces of various shapes have been made of a fabric to which plates of copper and zinc have been attached in order that a galvanic action may be established at the surface of the body under the influence of the moisture or perspiration. In these cases, however, the connecting-wires have to be attached to the respective plates, and there is difficulty in properly inclosing these wires so as to prevent injury to the body.

Wire has been interwoven with warp or weft threads to form machine-belts.

My improvement consists in a band or other article of galvanic body-wear composed of a woven fabric having fine wires running through the same in one direction to form electric conductors, in combination with eyelets inserted into and through the fabrics, and spread so as to be held in place, and to come into intimate contact with the wires. The eyelets themselves are composed of copper and zinc, or said eyelets are employed to secure copper or zinc disks to the fabric, and the wires in the fabric serve to connect up the dissimilar metallic elements in the body-wear and to properly direct the galvanic current through the part of the body to which the article is applied.

In the drawings, Figure 1 is an elevation representing a piece of the said body-wear. Fig. 2 is a section in larger size, showing the metallic plates or disks and the connecting-wires.

The article of body-wear may be in the form of a band or other article adapted to contain the conducting-wires and dissimilar plates. The strip or band A is of suitable width and length. It may have parallel sides and round ends, or be of any other form, according to the use for which it is intended, and, usually, there will be fastening devices—such as flexible straps *b*—or laces by which to attach the body-wear in its proper place.

Throughout the fabric that is made use of I introduce fine wires, as seen at *c*, the same being parallel to each other and kept at the necessary distance apart by the intervening warp or weft threads to prevent metallic contact. Through this fabric holes are made,

either by cutting out the threads or spreading them apart, and into these openings eyelets *i* and *o* are introduced and securely attached by spreading the flanges. These eyelets are of dissimilar metal—such as copper and zinc—and these eyelets alone may be depended upon for the galvanic action; or there may be washers or rings of corresponding thin sheet metal attached to the fabric by the eyelets, as seen at *k*, so as to expose to the action of the perspiration dissimilar plates that set up a galvanic action. These eyelets are to be placed with reference to the desired galvanic action. For instance, if the copper and zinc alternate lengthwise of the wires in the fabric, a mild galvanic action will be set up between the respective eyelets. If the wires pass across the belt or band, the respective copper and zinc eyelets become similar to a pair of plates in a battery, and where the wires run lengthwise in the fabric of the band or belt the wires may connect the similar eyelets in series, the galvanic action being transversely between the respective eyelets, and where it becomes necessary to close the circuit between the longitudinal wires the same may be done by a transverse metallic clasp or end clip at *h*.

This galvanic body-wear may be applied to any desired portion of the body, according to where the galvanic action is needed.

I claim as my invention—

1. The combination, in galvanic body-wear, of a fabric having wires woven throughout said fabric and eyelets of dissimilar metal passing through the fabric and clamped to the wires of the fabric, substantially as set forth.

2. The combination, in galvanic body-wear, of a fabric having wires interwoven in the same, metallic eyelets passing through the fabric and in contact with the metallic wires, and disks or rings of dissimilar metal secured by said eyelets, substantially as set forth.

3. The combination, in galvanic body-wear, of conducting-wires running in one direction and the intervening warp or weft threads to separate the conductors from each other, substantially as set forth.

Signed by me this 22d day of July, A. D. 1885.

JOSEPH MAYER.

Witnesses:

GEO. T. PINCKNEY,
WILLIAM G. MOTT.