

(No Model.)

O. F. MAIN.
ELECTRIC BELT.

No. 324,713.

Patented Aug. 18, 1885.

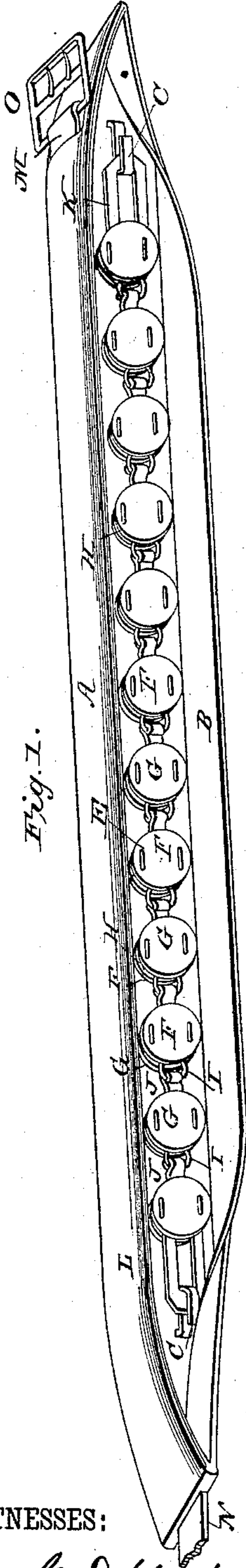


Fig. 1.

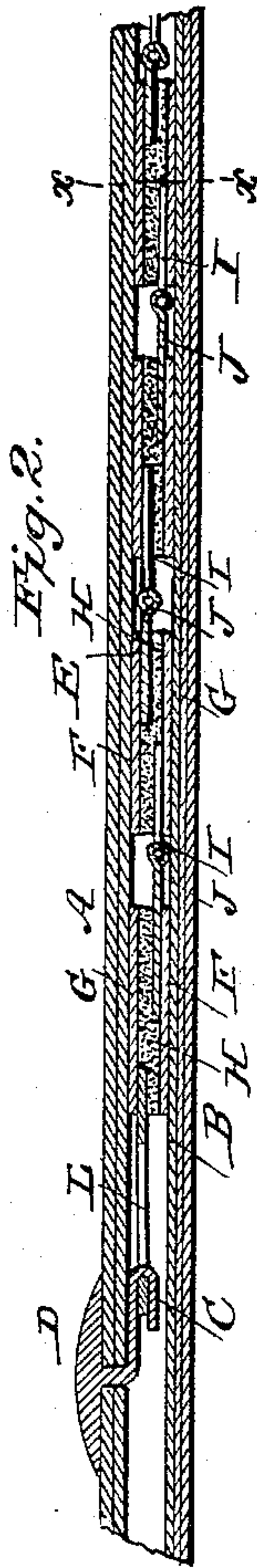


Fig. 2.

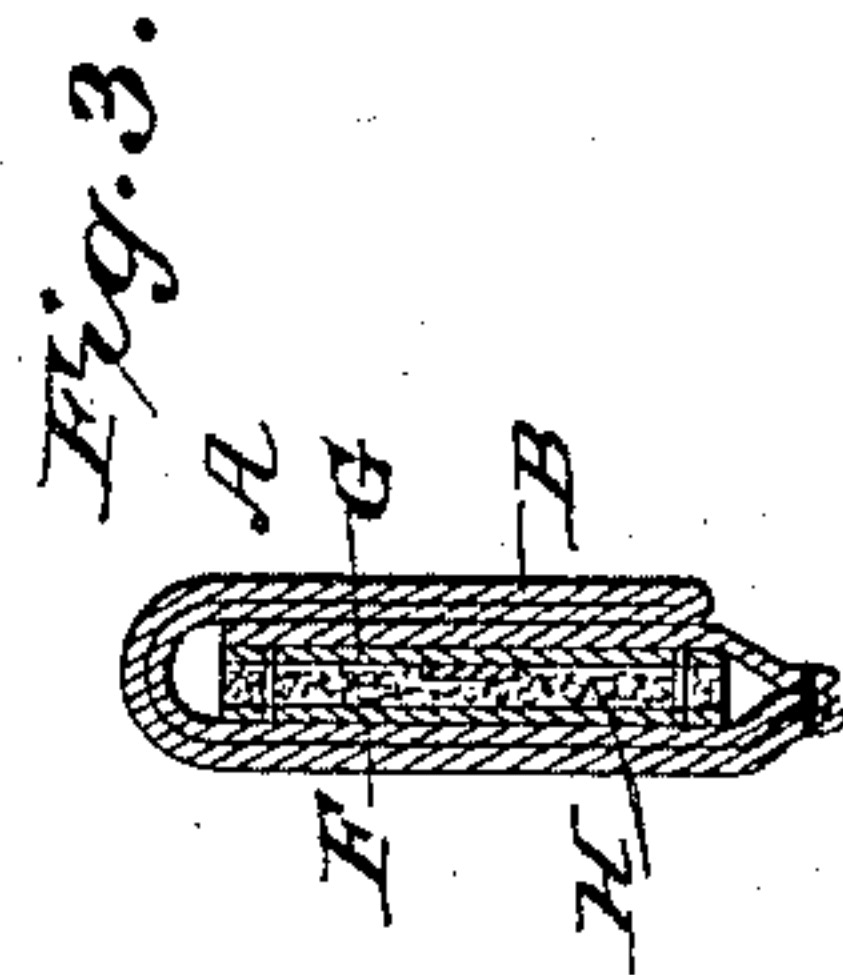


Fig. 3.

WITNESSES:

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UNITED STATES PATENT OFFICE.

OSCAR F. MAIN, OF MARION, IOWA, ASSIGNOR OF TWO-THIRDS TO ALDEN R. SARGENT AND OLIVER S. HALL, BOTH OF SAME PLACE.

ELECTRIC BELT.

SPECIFICATION forming part of Letters Patent No. 324,713, dated August 18, 1885.

Application filed March 20, 1885 (No model.)

To all whom it may concern:

Be it known that I, OSCAR F. MAIN, a citizen of the United States, and a resident of Marion, in the county of Linn and State of Iowa, have invented certain new and useful Improvements in Electric Belts; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification, and in which—

Figure 1 is a perspective view of my improved electric belt, showing the same unfolded, so as to expose the electric chain. Fig. 2 is a longitudinal sectional view showing the belt folded and ready for operation; and Fig. 3 is a vertical transverse sectional view of the same, taken on the line *x x* in Fig. 2.

The same letters refer to the same parts in all the figures.

This invention relates to an electric belt for the treatment and cure of various forms of diseases; and it has for its object to provide a device of this class which shall possess superior advantages in point of simplicity, durability, and general efficiency.

With these ends in view it consists in the improved construction and arrangement of parts, which will be hereinafter fully described, and particularly pointed out in the claim.

In the drawings hereto annexed, A designates a belt or band made of a single piece of rubber, oil-cloth, or of any other suitable water-proof material, the same being doubled or folded upon itself, as shown, forming a flap, B, extending from the lower edge to the longitudinal center. The upper part is then folded so as to cover and protect the said flap, which dispenses with buttons and such like devices for securing it in place, as the folded part is of a double thickness and keeps its form after being folded into position. To the body of the said belt, near the ends of the same, and under the flap B, are attached metallic hooks C C, connecting with buttons D D, made of metal or other conductors of electricity, and arranged upon the outside of the

belt. By this means the buttons and hooks are easily removed from the belt for the purpose of cleaning or repairing, or for any other reason, and as easily replaced.

E designates the electric chain, each of the links of which is composed of a zinc disk, F, and a copper disk, G, between which is interposed a piece of cotton cloth or other absorbent material, H, said disks being united and connected with the interposed cotton cloth by means of stitching, or in any suitable manner. The links of the chain are provided with laterally-extending loops I and hooks J, whereby they are flexibly connected, as shown. The links of the chain are arranged alternately with the copper and the zinc disks to the front, as shown.

To the ends of the chain are attached links K and L, made, respectively, of zinc and of copper, and whereby the chain is connected detachably with the hooks C C, thereby connecting the buttons D D.

The ends of the belt are provided with straps M and N, one of which is provided with an ordinary buckle, O, whereby the belt may be buckled around the body of the person who is to wear it.

From the foregoing description, taken in connection with the drawings hereto annexed, the operation and advantages of this invention will be readily understood. The construction is simple and inexpensive.

When the belt is to be used, the chain may be readily detached from the belt and immersed in vinegar or dilute acid until the absorbent material interposed between the disks has been saturated, after which the belt is restored to its position in the belt, and the latter buckled around the body with the buttons D D in contact with the skin. An electric current is thus established, of the vitalizing influences of which the wearer derives the full benefits.

Having thus described my invention, I claim and desire to secure by Letters Patent of the United States—

In an electrical belt, the combination, with a water-proof covering consisting of a single piece of water-proof material folded upon itself and forming a flap at the lower edge,

5 electrodes at the ends of the belt, consisting of metallic buttons on one side of the belt and hooks on the other, a voltaic chain adapted to be inclosed in said covering and terminating at the ends in links, and means for securing said ends of the belt together around the body, substantially as described, and for the purpose set forth.

In testimony that I claim the foregoing as my own I have hereunto affixed my signature in presence of two witnesses.

OSCAR F. MAIN.

Witnesses:

J. C. DAVIS,

CHAS. A. PADLEY.