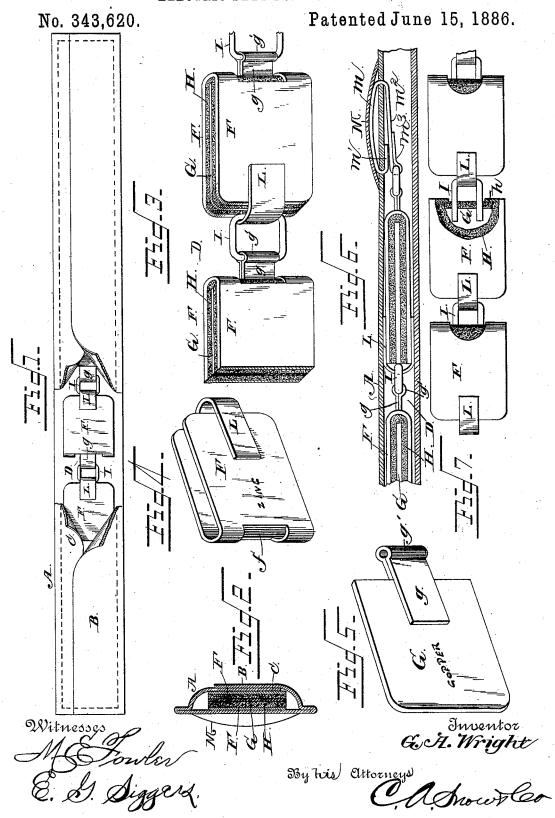
G. A. WRIGHT.

ELECTRIC BELT FOR BODY WEAR.



N. PETERS, Photo-Lithographer, Washington, D. C.

United States Patent Office.

GEORGE ARTHUR WRIGHT, OF CONCORDIA, KANSAS.

ELECTRIC BELT FOR BODY WEAR.

SPECIFICATION forming part of Letters Patent No. 343,620, dated June 15, 1886.

Application filed December 19, 1885. Serial No. 186,208. (No model.)

To all whom it may concern:

Be it known that I, GEORGE ARTHUR WRIGHT, a citizen of the United States, residing at Concordia, in the county of Cloud and State of Kansas, have invented a new and useful Improvement in Electric Belts for Body Wear, of which the following is a specification, reference being had to the accompanying drawings.

My invention relates to an improvement in electric belts for body wear; and it consists in the peculiar construction and combination of devices that will be more fully set forth hereinafter, and particularly pointed out in the

s claims.

In the drawings, Figure 1 is an elevation of my invention with a part of the belt broken away to disclose the electric chain. Fig. 2 is a transverse sectional view of the same. Fig. 2 is a detail perspective view of a portion of the electric chain. Figs. 4 and 5 are detail perspective views of portions thereof. Fig. 6 is a detail view of one of the electrodes, showing the manner of connecting it to the 25 belt and to the end of the chain; and Fig. 7 shows a modified form of my invention.

A represents a belt, which is made of oilcloth or other insulating and water-proof material, and is provided on its rear side with
30 the flaps B and C, which extend throughout
its length, and are adapted to be folded over
so as to envelop the chain D. This latter is
formed of a series of links or couples, each
of which is composed of a zinc plate, F, a
35 copper-plate, G, and a dielectric absorbent
material, H, which is interposed between the
zinc and copper plates in each couple.

In order to form my chain, I first make the zinc plates in the form shown in Fig. 4, with 40 opening f at the center. These plates are bent at their centers into a **U** shape, as shown at Fig. 6. The copper plates G are provided at one end with an extending tongue, g, which is bent, as at g', to embrace one side of a connecting conducting-link, I. Strips of felt H or other absorbent dielectric material are provided with central openings, h, to receive the tongues of the copper plates, and are folded upon opposite sides of the copper plates, and 50 then inserted between the opposing sides of the zinc plates, the tongues of the copper plates

but out of contact therewith, as shown. The ends of the zinc plates are connected by metallic straps L, which are soldered to the zinc 55 plates, forming loops to receive the links I, and thereby connect the couples or links of

the chain together.

M represents the electrodes or contact-plates, which are preferably made in the form of but- 6c tons and of any suitable metal. Straps m are secured on the rear sides of the plates M, one arm of these straps being longer than the other. The short arms m' pass through openings in the ends of the belt, and are then bent over 65 upon the inside of the belt, so as to confine the latter, and the long arms m^2 are similarly secured to the belt, and are bent into hooks m^3 at their ends, which hooks receive the links at the ends of the chain. The belt is worn in 70 the usual way, with the plates M in contact with the person, and the chain is charged by saturating the absorbent dielectric in the couples with strong vinegar or other suitable acid

In Fig. 7 I illustrate a modified form of my invention, in which I employ a loop of copper wire, instead of the tongue g, the said loop being linked into the strap L of the next couple and soldered to the copper plate, there- 80

by entirely dispensing with the link.

Having described my invention, I claim—

1. In electric belts, the couples comprising the bent plates F, having the openings f, the plates G, having the tongues g passed 85 through the openings f, and the links secured to the said tongues, and the absorbent dielectric interposed between the plates G and the opposing sides of the plates F, the said latter plates having the metallic straps L, forming 90 loops connecting the links L with the plates F, substantially as described.

2. In electric belts, the electrodes having

2. In electric belts, the electrodes having the metallic straps m' and m^2 passed through the belt and bent over thereon, to secure the 95 electrodes to the belt, one arm of the straps having the hook to receive the links of the electric chain to connect the electrode with

the chain, substantially as described.

tongues of the copper plates, and are folded upon opposite sides of the copper plates, and then inserted between the opposing sides of the zinc plates, the tongues of the copper plates passing through the openings in the zinc plates, and are folded upon opposite sides of the inclosing plate F, having an opening, f, at the bend, forming one element, the plate G, located in the plate F and forming the other plates, and the inclosing plate F, having an opening, f, at located in the plate F and forming the other plates, and the inclosing plate F, having an opening, f, at located in the plate F and forming the other plates, and the inclosing plate F, having an opening, f, at located in the plate F and forming the other plates, and the inclosing plate F, having an opening, f, at located in the plate F and forming the other plates, and the inclosing plate F, having an opening, f, at located in the plate F and forming the other plates plates.

g, to project through opening f, provided with a link to form a connection with the next cell, and the absorbent dielectric to contain the exciting acid interposed between the sides of the plate G and the opposing sides of the inclosing-plate F, substantially as described.

In testimony that I claim the foregoing as

GEORGE ARTHUR WRIGHT.

343,620

Witnesses:
C. F. HOSTETLER,
L. M. HOUSTON.