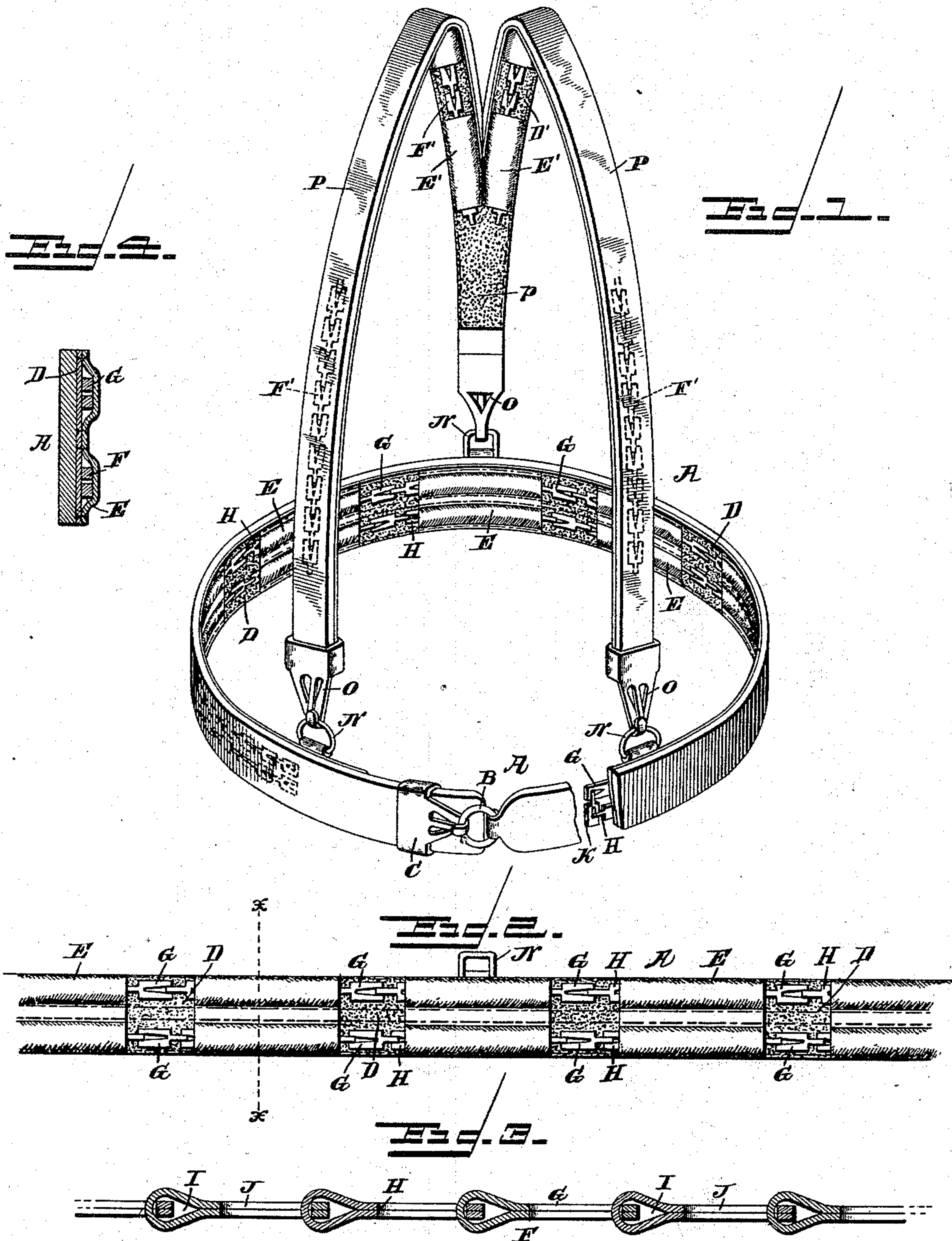


(No Model.)

J. BACKSTROM & F. W. JOHNSON.  
ELECTRIC BELT.

No. 527,922.

Patented Oct. 23, 1894.



Inventors

Jonas Backstrom

Frank W. Johnson

By their Attorneys.

Witnesses

E. H. Stewart  
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# UNITED STATES PATENT OFFICE.

JONAS BACKSTROM AND FRANK W. JOHNSON, OF STROMSBURG, NEBRASKA.

## ELECTRIC BELT.

SPECIFICATION forming part of Letters Patent No. 527,922, dated October 23, 1894.

Application filed April 17, 1894. Serial No. 507,893. (No model.)

*To all whom it may concern:*

Be it known that we, JONAS BACKSTROM and FRANK W. JOHNSON, citizens of the United States, residing at Stromsburg, in the county of Polk and State of Nebraska, have invented a new and useful Electric Belt, of which the following is a specification.

This invention relates to electric belts; and it has for its object to effect certain improvements in that class of electric belts employing shoulder straps.

To this end the main and primary object of the present invention is to provide a simple and efficient electric belt possessing exceptionally good qualities for body wear to relieve the different affections for which electric belts are used.

With these and other objects in view which will readily appear as the nature of the invention is better understood the same consists in the novel construction, combination and arrangement of parts hereinafter more fully described, illustrated and claimed.

In the accompanying drawings:—Figure 1 is a perspective view of an electric belt constructed in accordance with this invention. Fig. 2 is an inside elevation of the body band or belt with the shoulder straps unattached thereto. Fig. 3 is an enlarged detail sectional view of a section of the battery chain. Fig. 4 is a detail sectional view on the line  $x-x$  of Fig. 2.

Referring to the accompanying drawings, A represents the body band or belt, preferably made of suitable elastic webbing and adapted to encircle the body of a person next to the skin, when applied.

The body band or belt A, has attached to one end thereof the connecting loop or ring B, which is adapted to be engaged by the snap buckle C, adjustably secured on the other free end of the band or belt to provide means for readily adjusting the same to different sized persons.

The body band or belt A, has secured to the inner side thereof the absorbent lining D formed of flannel or similar material which will retain its moistness in order to energize the battery which is carried by the band or belt, and preferably, at regularly spaced points on the absorbent lining D, are stitched a series of battery pockets E, formed of silk

or similar cloth and leaving exposed spaces there-between for the chain battery F.

The chain battery F, is supported in position on the inner absorbent lining on the body band or belt by the cloth pockets E, through which pockets the battery extends, and said battery consists of a connected series of open copper and zinc links G and H, respectively, which links are formed of plates of metal bent upon themselves to form connecting loops I, at one end, and provided with openings J, through which pass the loops I in order to properly connect the links together. The alternate arrangement of copper and zinc links G—H, provides the necessary elements to complete an electric battery, which will be energized from the damp or wet lining D, which is arranged directly in contact with the body of the wearer, and by leaving exposed spaces between the battery pockets the joint portions of the battery chain where electric action exists are left exposed for contact with the body in order that the electric current may be transmitted thereto.

The battery F, in the body band or belt, is doubled at its opposite ends as at K, to form a double battery, or an upper and lower row of connected links extending in a line near the upper and lower edges of the band or belt.

The body band or belt A, is provided at its upper edge with the attaching rings N, located at the rear side of the belt and near the front ends thereof, and are adapted to be detachably engaged by the clasps or snap buckles O, secured to the front and rear ends of the shoulder straps P. The shoulder straps P, are connected at their rear ends to a short buckle or clasp strap  $p$ , in the same manner as in an ordinary pair of suspenders, and this buckle or clasp strap has connected thereto one of the clasp or snap buckles referred to, and by this connection it will be readily seen that the shoulder straps may be entirely disconnected from the body band or belt and also attached thereto in a very easy manner. The shoulder straps P, have secured to the inner sides thereof an absorbent lining D', and a series of cloth battery pockets E', and in these particulars are constructed in identically the same manner as the body band or belt, and near the front and rear ends of the shoulder straps and in the battery pockets E',



are arranged the battery sections F', which are constructed similar to the battery F.

In the event of the battery on either the band or shoulder straps being found too strong, the covering or pockets for the battery may be arranged more continuously to reduce the number of exposed parts of the battery as will be obvious to those skilled in the art.

Changes in the form, proportion and the minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of this invention.

Having thus described the invention, what is claimed, and desired to be secured by Letters Patent, is—

1. In an electric belt, the combination of a body band or belt having an inner absorbent lining and a series of battery pockets with spaces there-between, a chain battery arranged within the battery pockets next to the absorbent lining and consisting of a connected

series of copper and zinc links, joint portions of said battery being exposed between the battery pockets, substantially as set forth.

2. In an electric belt, the combination of the body band or belt having an absorbent inner lining and a battery pocket interrupted at intervals by spaces, and a double chain battery consisting of a connected series of copper and zinc links each of which comprise plates of metal bent upon themselves to form connecting loops at one end and provided with openings to receive the loops of the adjacent links the joints of said battery being exposed at said spaces, substantially as set forth.

In testimony that we claim the foregoing as our own we have hereto affixed our signatures in the presence of two witnesses.

JONAS BACKSTROM.  
FRANK W. JOHNSON.

Witnesses:

LOUIS V. HASKELL,  
C. O. JOHNSON.