



# UNITED STATES PATENT OFFICE.

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## ELECTRICAL CONNECTION.

SPECIFICATION forming part of Letters Patent No. 505,561, dated September 26, 1893.

Application filed April 19, 1892. Serial No. 429,791. (No model.)

### *To all whom it may concern:*

Be it known that I, WILLIAM I. SMITH, a citizen of the United States, residing at Memphis, in the county of Shelby and State of Tennessee, have invented a new and useful Electrical Connection, of which the following is a specification.

This invention relates to electrical connections for body attachments; and it has for its object to provide an improved connector or attachment for electric lines leading from a source of generation and adapted to carry the electric current to the human body for remedial purposes.

To this end the invention primarily contemplates certain improved means for connecting the ends of electric wires to a body attachment.

With these and many 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 general view, showing the general application of an electric wire to the wrist of a person by my improved connection. Fig. 2 is a detail sectional view of the improved electrical connection.

Referring to the accompanying drawings, the conductor C is provided with the threaded terminal c, adapted to be connected with the contact plate E, as contemplated by this invention. The said contact plate E is made in a shape conforming to the shape of the human body at the point to which the same is to be attached, and is provided with the projecting threaded studs e, over which is placed the metallic binding plate F provided with perforations taking over said studs. The binding plate F is held firmly upon the plate E by means of the binding nuts G, working over said studs and clamping the bared end

of the conductor C between the binding and contact plates, so as to provide a perfectly secure connection of the conductor with the body connection. The plate F is provided at one end with a slot f, to which is secured one end of the elastic band H, to the other end of which is connected the slotted plate I, adjustably engaging the hook J at the other end of the binding plate F, and providing means, whereby the said contact plate can be easily attached to any suitable portion of the body where the nerve centers are located.

It will be seen from the foregoing that efficient connections are provided for securing the proper electrical connections with the attachment which is designed for attachment to the body in connection with suitable batteries or other generative sources.

Having thus described my invention, what I claim, and desire to secure by Letters Patent, is—

The combination with an electric conductor having a bared terminal; of the contact plate conforming in shape to the portion of the body to which it is applied and provided with projecting threaded studs, a binding plate provided with perforations engaging said studs, a slot at one end and a hook at the other end, binding nuts engaging said studs and binding said binding plate upon the bared terminal of the conductor between the same and said contact plate, a slotted attachment plate, and an elastic band connected with said slotted plate and the slotted end of the binding plate, substantially as set forth.

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

WILLIAM I. SMITH.

Witnesses:

STERLING PINSON,  
J. R. FLIPPINS.