

C. C. DIEUDONNÉ.
 REMEDIAL HEAD BAND.
 APPLICATION FILED OCT. 15, 1908.

910,362.

Patented Jan. 19, 1909.

Fig. 1.



Fig. 2.

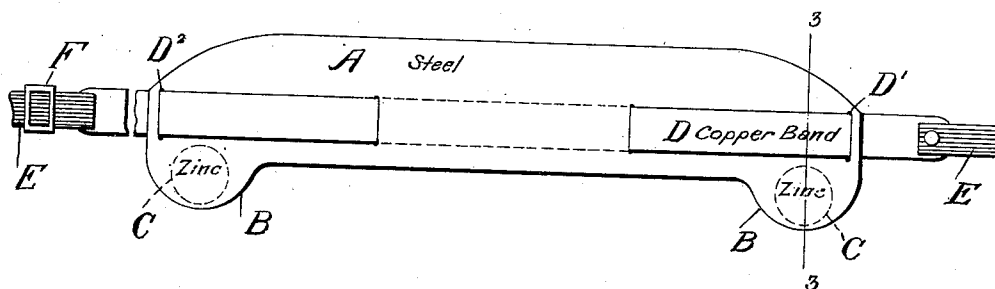
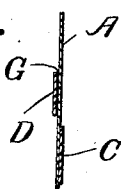


Fig. 3.



Witnesses

Jos. F. Collins.
 Wm. M. Birney

Inventor

Charles C. Dieudonné
 By *Wasserkunne,*
 Attorney

UNITED STATES PATENT OFFICE.

CHARLES C. DIEUDONNÉ, OF WASHINGTON, DISTRICT OF COLUMBIA.

REMEDIAL HEAD-BAND.

No. 910,362.

Specification of Letters Patent.

Patented Jan. 19, 1909.

Application filed October 15, 1908. Serial No. 457,819.

To all to whom it may concern:

Be it known that I, CHARLES C. DIEUDONNÉ citizen of the United States, residing at Washington, in the District of Columbia, have invented certain new and useful Improvements in Remedial Head-Bands, of which the following is a specification, reference being had therein to the accompanying drawing.

My invention relates to remedial electric bands adapted to pass around the head and to act upon the forehead and temples.

In the accompanying drawings, Figure 1 shows the band in position. Fig. 2 is a view of the front portion of the band when in plane form. Fig. 3 is a section on the line 3—3, Fig. 2.

In these views, A represents a very thin plate, preferably of magnetized steel, long enough to reach from temple to temple across the forehead, and having near its ends dependent tab-like portions B upon the inner face of which are fixed, in electrical contact zinc plates or disks C. The steel plate has a narrow vertical slot near each end and also two like intermediate slots which may be equidistant from the end slots and each other, all these slots being above the zinc disks and in position to receive a straight strip D, of copper, slightly longer than the steel plate and threaded outward through one of the end slots D', inward through the next slot, and so on, so that the copper when in place lies between the steel plate and the skin at each end and in the middle of the plate. A preferably elastic band E is secured to one end of the copper strip and is of such length that it may pass around the back of the head to the opposite end of the copper strip where it passes through a slot D², bends back upon itself and is attached to an ordinary clamping slide F which permits adjustment of the length of the band. The portions of the copper strip which would otherwise meet the broad faces of the steel plate are coated with shellac G, or other insulating material, but at the slots the two metals are in electrical contact.

If the device be placed upon the head as shown in Fig. 1, and if the band be given proper tension, the central portion of the

copper strip is pressed firmly against the forehead while the zinc disks are pressed against the temples, respectively. These parts being in direct contact with the skin and electrically connected by the steel plate, circuit is completed through those portions of the head upon which they rest and a very slight, constant, resulting electrical current is produced, and this current, perhaps aided by the pressure, gives relief in certain forms of headache. The steel is usually protected from rust by coating it with nickel.

Obviously other suitable metal may be substituted for the copper and zinc, or the positions of the two metals may be reversed.

What I claim is:

1. The combination with a band adapted to be passed horizontally about the upper part of the head, of a copper plate carried by the band in position to rest on the forehead, two zinc plates also carried by the band in position to rest against the temples, respectively, and electrical conductors connecting the three plates with each other.

2. The combination with a flexible steel plate adapted to extend about the front part of the head from temple to temple, of a copper plate secured to the inner middle portion of the plate and electrically connected thereto, two zinc plates secured to end portions of the plate, respectively and electrically connected therewith, and a band arranged to pass around the rear portion of the head and bind the copper and zinc plate against the forehead and temples, respectively.

3. The combination with the slotted steel plate bearing the zinc plates upon the inner face of the plate near its ends, of the copper strip passing alternately inward and outward through the slots and insulated from the plate at intermediate points, and the band connecting the ends of said strip and adapted to pass around the rear portion of the head.

In testimony whereof I affix my signature in presence of two witnesses.

CHARLES C. DIEUDONNÉ.

Witnesses:

S. A. TERRY,
ROY ALEXANDER.