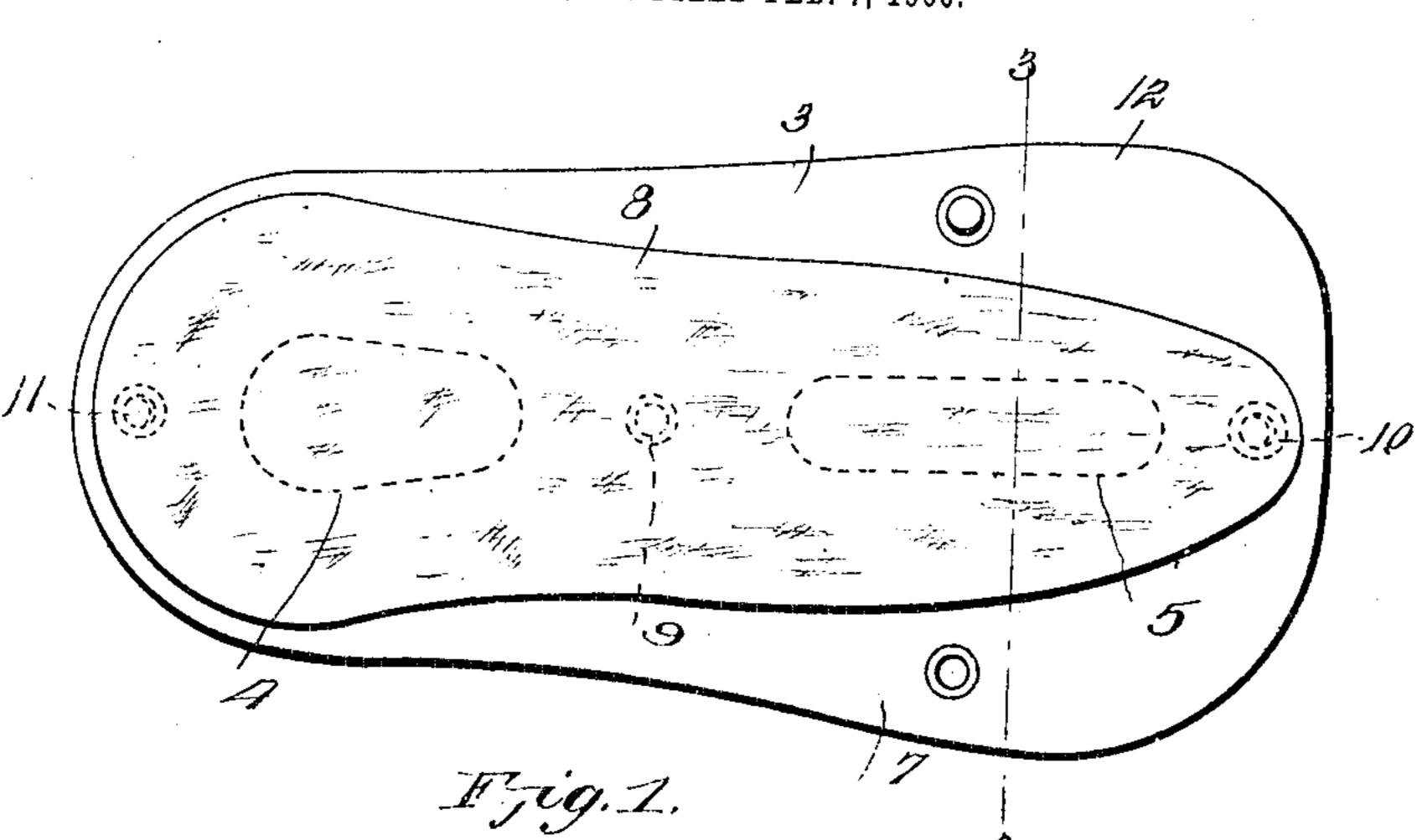
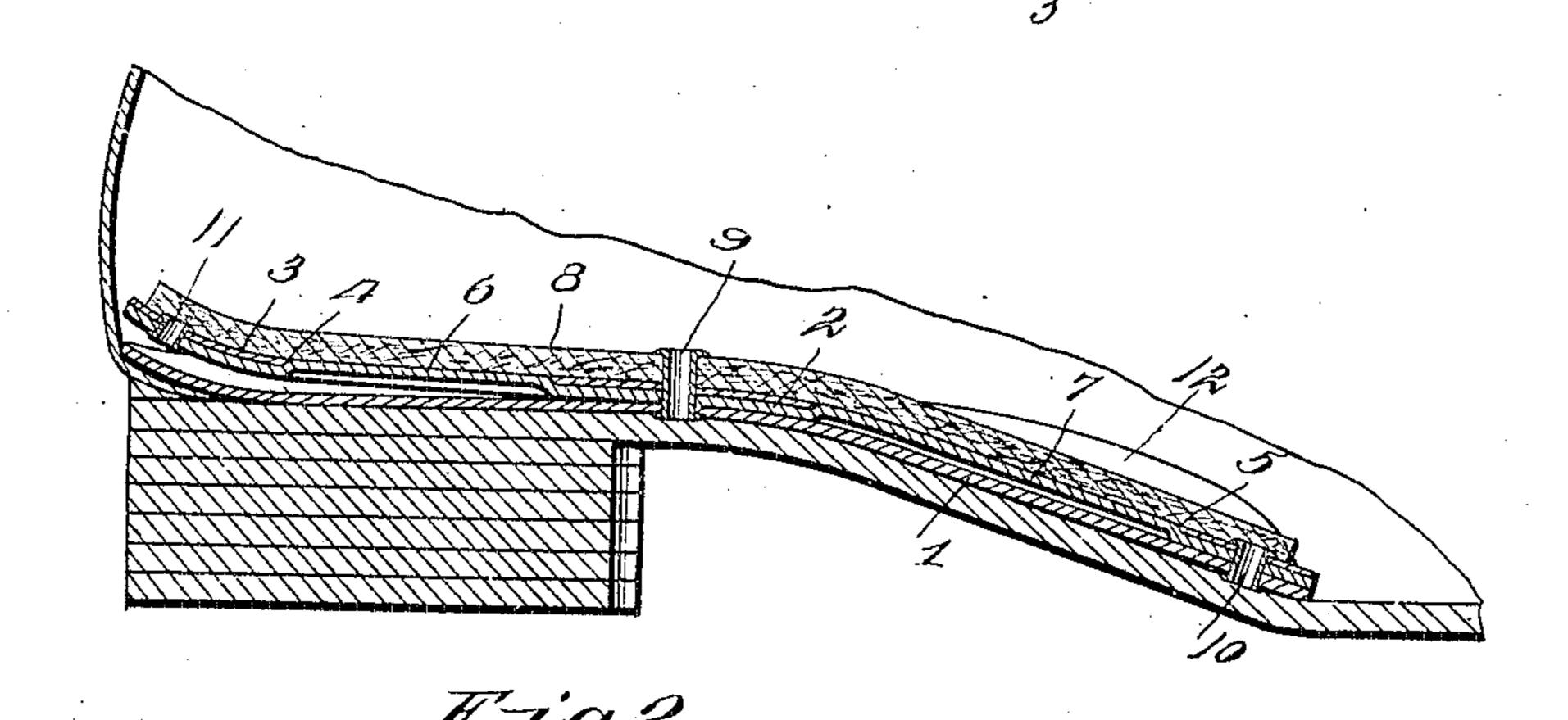
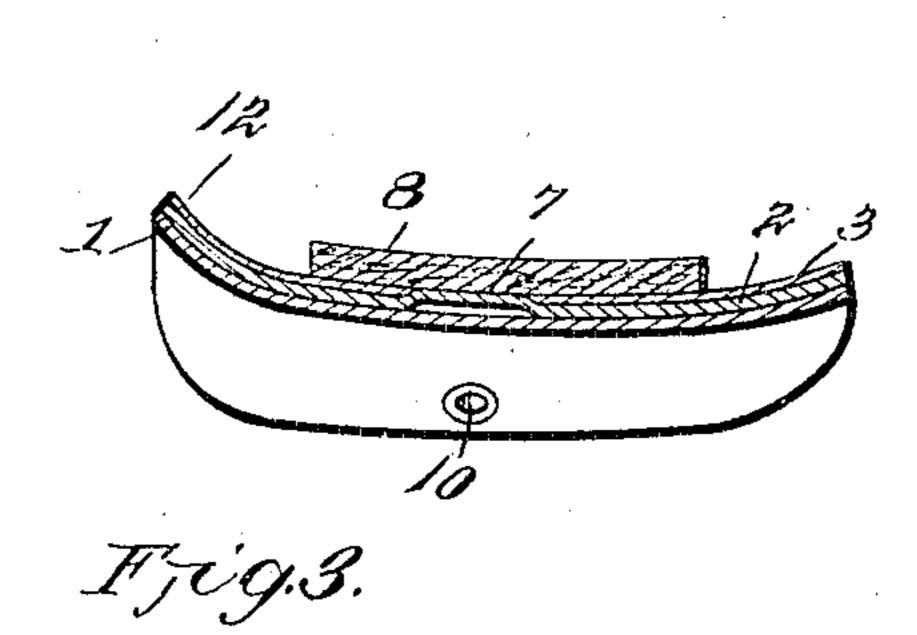
H. O. CAN DEE. ELECTRIC INSOLE. APPLICATION FILED FEB. 7, 1906.







Witnesses Frank Hough Felmore. H.O. Can Dee,

Wetter J. Evans.

STATES PATENT OFFICE.

HENRY O. CAN DEE, OF SYRACUSE, NEW YORK.

ELECTRIC INSOLE.

No. 843,441.

Specification of Letters Patent.

Patented Feb. 5, 1907.

Application filed February 7, 1906. Serial No. 299, 992.

To all whom it may concern:

5 New York, have invented new and useful thereto for imparting the requisite amount 60 Improvements in Electric Insoles, of which of elasticity to the heel portion of the device. the following is a specification.

This invention relates to electric insoles 10 647,647 granted to me April 17, 1900.

to provide a simple inexpensive device of shoe and the moisture of the foot acting on this character which in practice will afford a the zine and copper forming the galvanic firm support for the instep-arch, one whereby couple produces an electric current which 15 suitable voltaic currents will be generated through the feet and limbs for relieving rheumatic and other pains, and one whereby a thus curing rheumatic or other pains, the yieldable support will be afforded for the heel | acid and perspiration which is freed through of the wearer.

With these and other objects in view the | S, as will be readily understood. invention comprises the novel features of con- | It is to be particularly noted that in the struction and combination of parts more use of the device and owing to the portions fully hereinafter described.

25 is a top plan view of an insole embodying the | may act more readily upon the plates in pro- 80 section through the sole, showing the same applied to a shoe. Fig. 3 is a vertical crosssection taken on the line 3 3 of Fig. 1.

Referring to the drawings, 1 designates a base-plate composed of spring-steel and hav- Having thus fully described my invention, ing applied to its normally upper face an what I claim is-35 to the upper face of the plate 2 and forming plied thereto and comprising a pair of co- 90 the plate 3 a pair of elongated openings 4 and | other, fastening members at the ends of and ends of the insole and adapted to receive termediate fastening member connecting the 40 opposite projections 6 7, struck or pressed | plates together and to the base-plate, the up- 95 from the plate 2 during the formation there- permost plate of the couple having openings are exposed within the plane of the copper | plate are exposed. plate.

plate 3 is a felt or other suitable absorbent pad 8, secured to the insole by means of a central fastening member or rivet 9, which 50 serves to connect the plates 1, 2, and 3 at the center of the sole, the said plates being connected at the forward end of the sole by means of a fastening member or rivet 10, while the plates 2 and 3 are united at the heel 55 end of the sole by means of a fastening mem-

Be it known that I, Henry O. Can Dee, a portion of the duplex plate or couple 2 3 is citizen of the United States, residing at Syra- | wholly free from engagement with the plate cuse, in the county of Onondaga and State of | 1 and is adapted to spring or yield relatively

The insole is curved upwardly along one edge, as at 12, to properly support the adjafor shoes of the type disclosed in Patent No. | cent or inner side of the foot, the sole being properly shaped to fit the bottom of the foot. 65

The present invention has for its objects | In practice the sole is placed within the passes through the foot and limbs and serves 70 to eliminate the uric acid from the blood, the voltaic action being absorbed by the pad

6 and 7 of the zine being exposed within the In the accompanying drawings, Figure 1 | surface of the copper plate 3 the moisture invention. Fig. 2 is a central longitudinal | ducing the electric currents, and, further, that the rear portion of the duplex plate serves to yieldably support the heel and afford a cushioning action of the latter during the action of walking.

electric or galvanic couple comprising a zinc | 1. In a device of the class described, a plate 2 and a copper plate 3, in turn applied | spring-metal base-plate, a voltaic couple apa covering therefor, there being provided in lacting metal plates arranged one over the 5, disposed, respectively, adjacent opposite for securing said plates together, and an inof, whereby the portions 6.7 of the zinc plate | through which portions of the underlying

2. In a device of the class described, a Applied to the normally upper face of the metal base-plate, a voltaic couple applied 100 insole and for partially covering the face of thereto and comprising a pair of coacting metal plates arranged one over the other, a fastening member applied through the plates of the couple and the base-plate at the forward end of the latter, a second fastening 105 member connecting the plates of the couple at their rear ends, a pad applied over the couple, and an intermediate fastening member extended through the base-plate, couple and pad for connecting said parts together, 110

the uppermost plate of the couple having | thereto for yieldably supporting the heel of 10 openings through which portions of the un- | the wearer.

derlying plate are exposed.

3. In a device of the class described, a 5 metal base-plate, an electric couple attached thereto and comprising a pair of coacting metal plates, said couple having its rear portion wholly free from engagement with the base-plate and adapted to yield relative

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

HENRY O. CAN DEE.

Witnesses:

NATHAN ABELSON, K. Brennan.