

April 5, 1927.

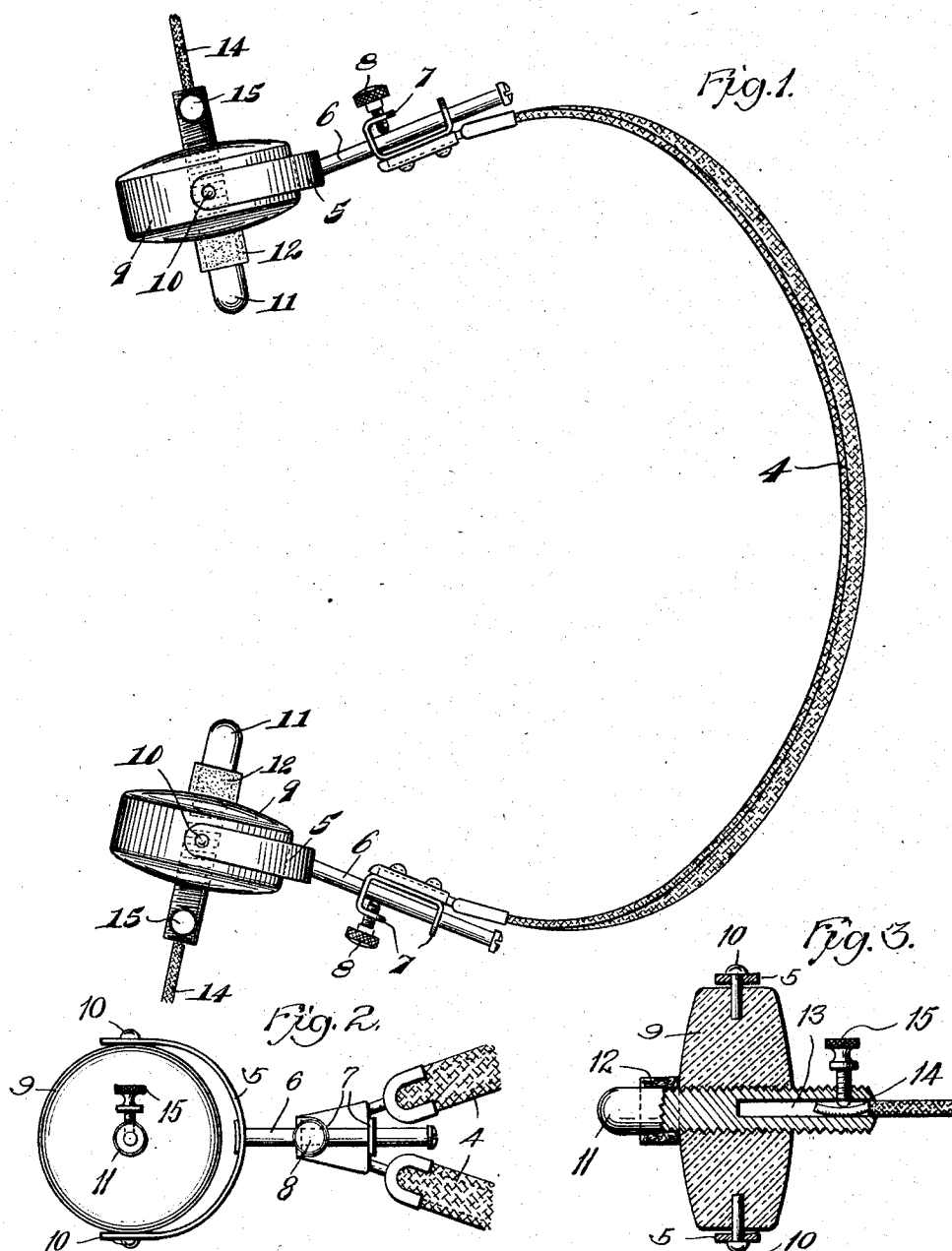
J. D. POLLARD

1,623,552

DIATHERMY EAR APPLICATOR

Filed March 14, 1925

2 Sheets-Sheet 1



Witnesses:

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B. G. Richards

Inventor

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2 Sheets-Sheet 2

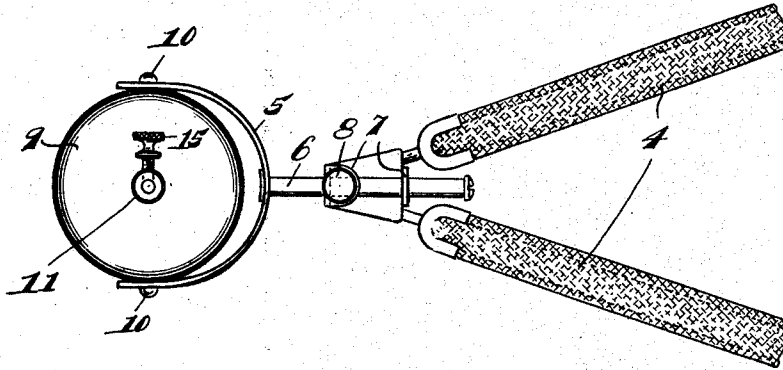


Fig. 2

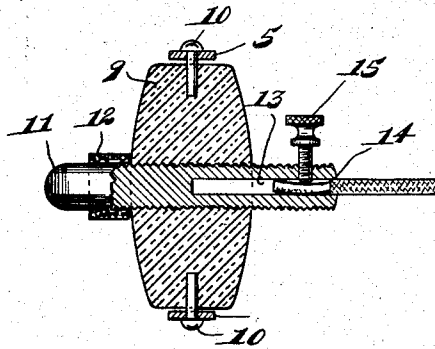


Fig. 3

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Patented Apr. 5, 1927.

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UNITED STATES PATENT OFFICE.

JOHN D. POLLARD, OF CHICAGO, ILLINOIS.

DIATHERMY EAR APPLICATOR.

Application filed March 14, 1925. Serial No. 15,426.

My invention relates to improvements in diathermy ear applicators and has for its object the provision of an improved apparatus of this character especially adapted for electrical treatment of the ears and internal organs of the head.

Other objects will appear hereinafter.

The invention consists in the combinations and arrangements of parts hereinafter described and claimed.

The invention will be best understood by reference to the accompanying drawings, forming a part of this specification, and in which,

Fig. 1 is a plan view of an apparatus embodying the invention;

Fig. 2 a side view of the same; and

Fig. 3 an enlarged section taken through one of two electrodes employed in the apparatus.

The preferred form of construction as illustrated in the drawings comprises a spring head frame 4 of any usual or desired construction adapted to fit around the rear of the head of the wearer, the ends of said frame terminating adjacent the ears of the wearer. A substantially semi-cylindrical or U-shaped yoke 5 is adjustably mounted on each end of said head frame. Each of said yokes carries a central supporting stem 6 which is rotatably and slidably mounted in a corresponding bracket 7 being adjustably secured therein by set screw 8 and whereby said yokes may be readily adjusted to accommodate various sizes and shapes of human heads. An insulating block or head 9 is mounted in each of said yokes 5 on trunnions 10 whereby said blocks are free to oscillate on vertical axes. Each block 9 carries an electrode 11 passing centrally through the block and threaded therein for longitudinal adjustment. Each electrode is rounded at its inner end for insertion in the ears and sections 12 of rubber tubing are placed over the inner ends of the electrodes adjacent the blocks 9, said sections of tubing insulating the sharp edges or points of the threads on the electrodes to prevent the escape of electric sparks or discharges therefrom.

Each electrode is provided at its outer end with a socket 13 to receive a conductor wire 14 and a set screw 15 is provided on each electrode extending into the socket therein to bind the conductors 14 in the sockets.

In use the electrodes 11 are connected by the wires 14 with an ordinary diathermy electrical apparatus adapted and arranged to supply electrical discharges or current to said electrodes. The frame 14 is then fitted about the head of the patient and the electrodes 11 fitted in the ears of the patient, the diathermy apparatus being employed to discharge electrical impulses or current through the ears and head of the patient. By this arrangement the ears and internal head organs of patients may be readily subjected to the action of the discharge from such an apparatus. It is obvious that the apparatus may be readily adjusted to the head and ears of any person and will automatically retain its position when so adjusted so as to permit of treatment for considerable periods of time. The specific form and arrangement of parts disclosed is a simple and effective one for the purpose.

While I have illustrated and described the preferred form of construction for carrying my invention into effect, this is capable of variation and modification without departing from the spirit of the invention. I, therefore, do not wish to be limited to the precise details of construction set forth, but desire to avail myself of such variations and modifications as come within the scope of the appended claims.

Having described my invention what I claim as new and desire to secure by Letters Patent is:

1. A device of the class described comprising a head frame; blocks of insulating material carried by said frame; electrodes mounted on said blocks and protruding inwardly therefrom, the protruding ends of said electrodes being rounded and of a size for insertion in the ears; and means for attaching conductor wires to said electrodes, substantially as described.

2. A device of the class described comprising a head frame; blocks of insulating material pivotally mounted on said head frame; threaded electrodes extending centrally through and threaded in said blocks, the inner ends of said electrodes protruding inwardly from said blocks and rounded and of a size for insertion in the ears, the outer ends of said electrodes being provided with sockets; and set screws extending into said sockets for attaching conductor wires therein, substantially as described.

3. A device of the class described com-

prising a spring head frame adapted and arranged to embrace the head with the ends of said frame adjacent the ears; yokes attached to the ends of said frame, each of
5 said yokes being provided with a stem rotatably and slidably mounted on said frame; blocks of insulating material pivotally mounted in said yokes; threaded electrodes extending centrally through said
10 blocks and threaded therein, the inner ends of said electrodes being of a size and round-

ed for insertion in the ears and the outer ends provided with sockets; set screws extending into said sockets for securing conductor wires therein; and sections of rubber tubing placed over the inner ends of said electrodes adjacent said blocks, substantially
15 as described.

In testimony whereof I have signed my name to this specification.

JOHN D. POLLARD.