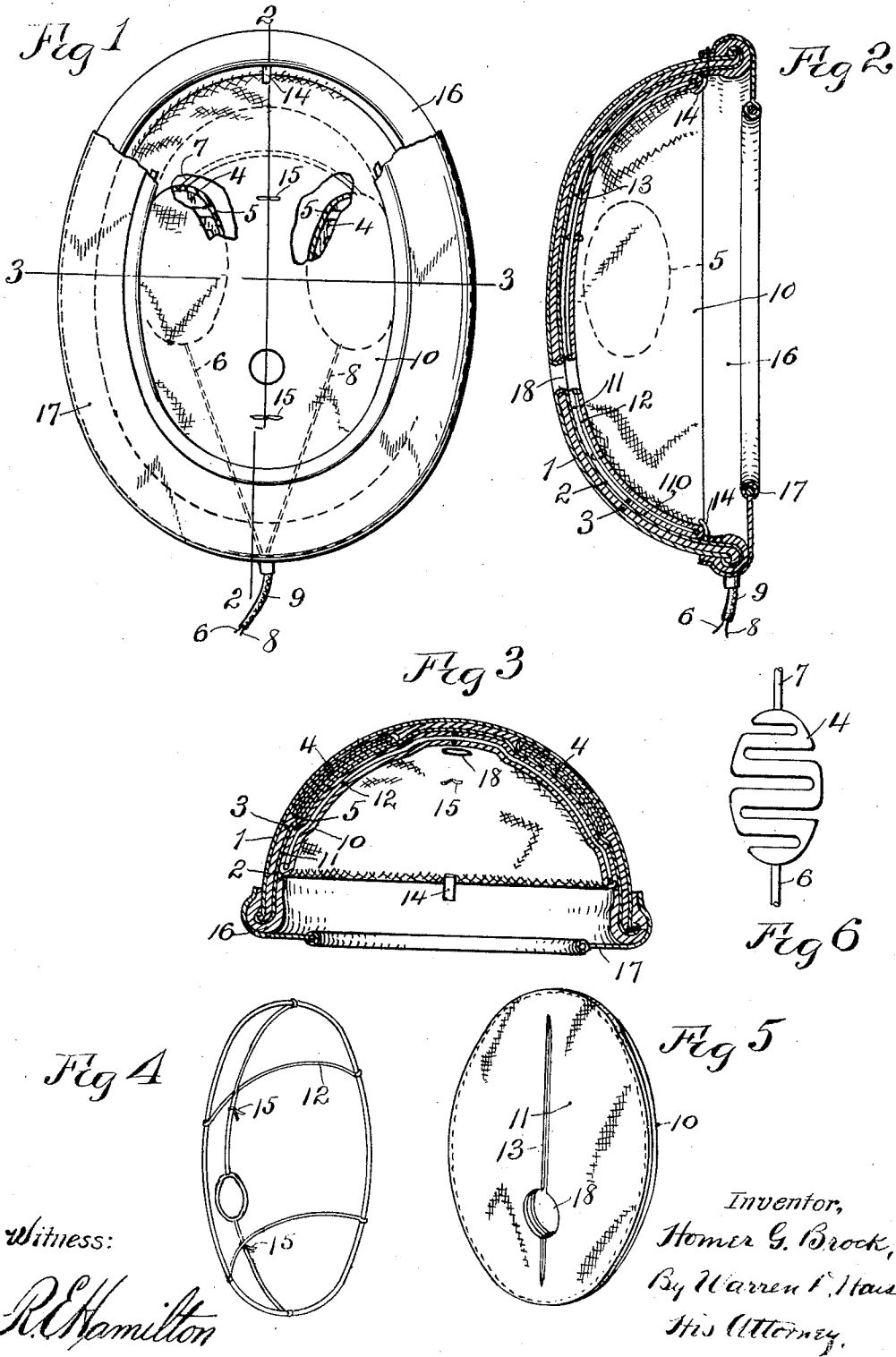


H. G. BROCK.
ELECTRICAL BODY HEATER AND STEAMER.
APPLICATION FILED MAR. 2, 1921.

1,415,784.

Patented May 9, 1922.



Witness:

R. Hamilton

Inventor,
Homer G. Brock,
By Warren F. House,
His Attorney.

UNITED STATES PATENT OFFICE.

HOMER G. BROCK, OF KANSAS CITY, MISSOURI.

ELECTRICAL BODY HEATER AND STEAMER.

1,415,784.

Specification of Letters Patent.

Patented May 9, 1922.

Application filed March 2, 1921. Serial No. 449,188.

To all whom it may concern:

Be it known that I, HOMER G. BROCK, a citizen of the United States, residing at Kansas City, in the county of Jackson and State of Missouri, have invented a certain new and useful Improvement in Electrical Body Heaters and Steamers, of which the following is a specification.

My invention relates to improvements in body heaters and steamers.

My invention is adapted to application to the different parts of the body, particularly to the face.

The object of my invention is to provide a novel device for heating and steaming the skin on different portions of the body, which device is simple in construction, cheap to make, durable, not liable to get out of order, which is light and efficient in operation and which can be readily applied without discomfort to the person, to different parts of the body.

The novel features of my invention are hereinafter fully described and claimed.

In the accompanying drawing, which illustrates the preferred embodiment of my invention,

Fig. 1 is an elevation, partly broken away, of my improved device.

Fig. 2 is a vertical sectional view on the line 2—2 of Fig. 1.

Fig. 3 is a horizontal sectional view on the line 3—3 of Fig. 1.

Fig. 4 is a perspective view of the pad support.

Fig. 5 is a perspective view of the absorbent pad.

Fig. 6 is a plan view of one of the heating elements.

Similar reference characters designate similar parts in the different views.

1 designates an outer concavo-convex shell to the edge of which is attached the edge of an inner concavo-convex shell 2. The two shells are composed preferably of sheet metal, such as sheet aluminum, brass, steel or copper.

Between the shells 1 and 2 is provided heat insulating material, such as sheet asbestos 3.

Between the shell 2 and the material 3 are one or more heating elements, preferably electrical and consisting of a resistance element 4 covered with suitable insulating material 5. In the drawings two heating elements are shown, one terminal of one of the

elements being connected to a conductor 6, and the other terminal being connected by a conductor 7 to one terminal of the other heating element, the other terminal of which is connected to a conductor 8. The conductors 6 and 8 extend into a flexible cord 9 of the ordinary type, which may be attached in the usual manner to an electrical circuit.

Removably mounted in the inner shell 2 is a pad composed, preferably, of two elliptical pieces of absorbent material 10 and 11 fastened together at their edges and adapted to have mounted between them a concavo-convex wire frame 12, which is adapted to be inserted between and removed from the pieces 10 and 11 through a slot 13 provided in the piece 11, Fig. 5.

Extending inwardly from the inner shell 2 are two hooks 14 respectively adjacent to the ends of the shell 2, and which are adapted to engage the pad and hold it in its operative position. The frame 12 may be sprung sufficiently to enable the insertion and removal of the pad. Clips 15, similar to paper clips, are fastened to the frame 12 and are adapted to have their ends extended through the cloth piece 10 to hold the latter from sagging. By releasing the clips 15, the frame 12 may be slipped out of the absorbent pad, so that the latter may be washed.

Embracing the inner portions of the shells 1 and 2, is a channel shaped member 16, which may be of cloth or soft rubber and which serves to prevent the plates 1 and 2 from burning the skin.

For attaching the device to the head when the face is to be operated upon, there may be provided a flexible ring adapter 17, preferably of soft rubber and which at its outer edge portion embraces and is attached to the outer side of the channel member 16.

In the operation of my invention, the pad is moistened and the cord 9 is attached to an electric fixture. If the face is to be operated on, the concave side of the device is placed over the face with the flexible ring member 17 embracing the chin and the top of the head. Current is then supplied to the heating elements, which on becoming heated will heat the face, and will cause hot vapor or steam to be generated in the absorbent pad, thereby heating and steaming that portion of the body which is exposed to the action of the device.

It will be noted that the pad 10 is carried by and fitted against the inner shell. This

effects a quicker and more intense heating of the pad and at the same time keeps the pad from touching the flesh and affords a uniform distribution of the hot vapor or steam.

A hole 18 may extend through the shells 1 and 2 and the cloth pieces 10 and 11, so that fresh air may be supplied to the person when the device is applied to the face.

I do not limit my invention to the structure shown and described, as many modifications, within the scope of the appended claims, may be made without departing from the spirit of my invention.

What I claim is.

1. In a device of the kind described, an outer shell, an inner shell attached thereto, heating insulating material between said shells, a heating element between said material and the inner shell, and an absorbent pad carried by and removably mounted in the inner shell, substantially as set forth.

2. In a device of the kind described, an outer shell of concavo-convex form, a flexible ring adapter attached to and extending across the concave side of the outer shell, and a heating element in said shell, substantially as set forth.

3. In a device of the kind described, an outer concavo-convex shell, an inner shell

attached thereto, heat insulating material between said shells, a heating element between said material and the inner shell, and a flexible ring adapter extending across the concave sides of said shells, substantially as set forth.

4. In a device of the kind described, an outer concavo-convex shell, an inner shell attached thereto, heat insulating material between said shells, a heating element between said material and said inner shell, a flexible ring adapter extending across the concave sides of said shells, and an absorbent pad mounted in and carried by the inner shell, substantially as set forth.

5. In a device of the kind described, a shell, means for heating said shell, and an absorbent pad carried by and fitted against the inner wall of said shell, substantially as set forth.

6. In a device of the kind described, a shell, means for heating said shell, an absorbent pad carried by and fitted against the inner wall of said shell, and a flexible ring adapter extending across the concave side of said shell, substantially as set forth.

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

HOMER G. BROCK.