

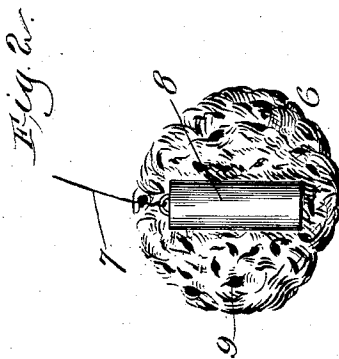
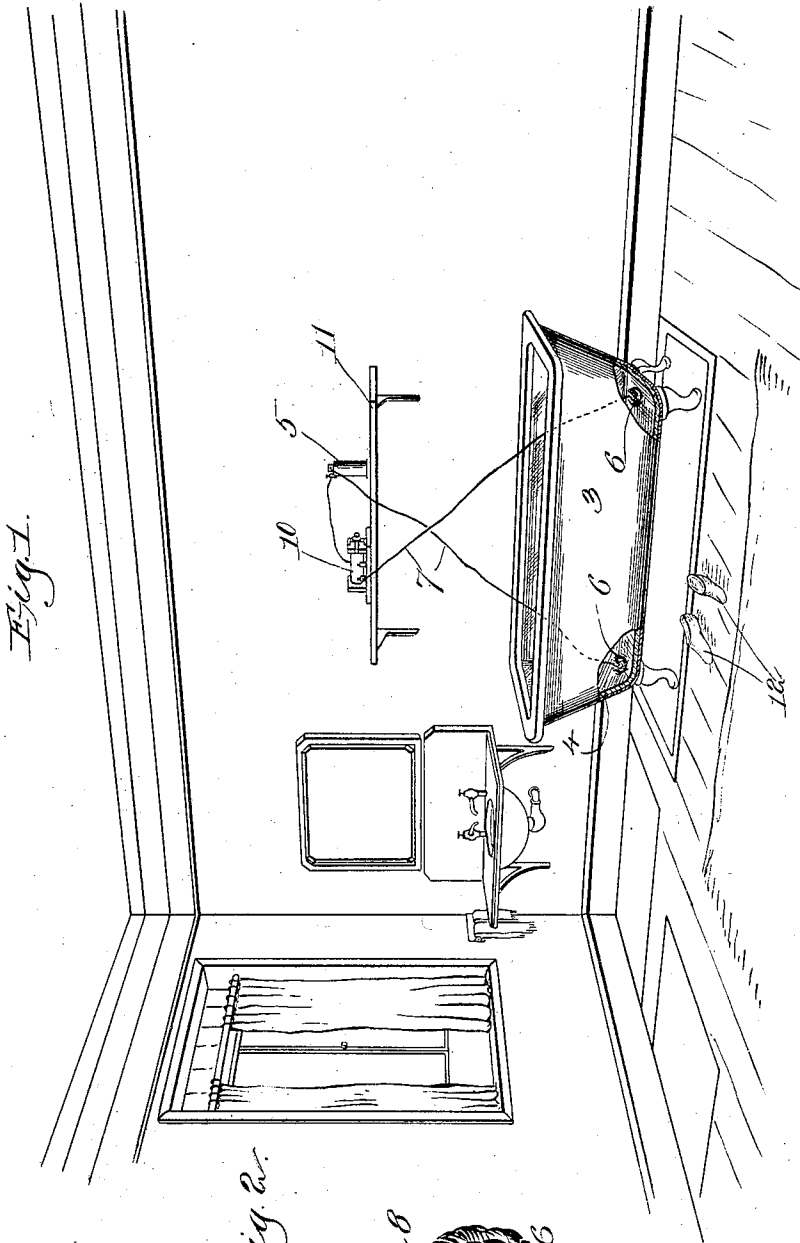
No. 760,794.

PATENTED MAY 24, 1904.

R. S. LAWRENCE.
ELECTRICAL BATHING APPARATUS.

APPLICATION FILED AUG. 3, 1903.

NO MODEL.



Witnesses:
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UNITED STATES PATENT OFFICE.

ROBERT S. LAWRENCE, OF BOSTON, MASSACHUSETTS, ASSIGNOR TO CONSOLIDATED INVENTORS CORPORATION, OF BOSTON, MASSACHUSETTS, A CORPORATION OF SOUTH DAKOTA.

ELECTRICAL BATHING APPARATUS.

SPECIFICATION forming part of Letters Patent No. 760,794, dated May 24, 1904.

Application filed August 3, 1903. Serial No. 168,060. (No model.)

To all whom it may concern:

Be it known that I, ROBERT S. LAWRENCE, a citizen of the United States, residing at Boston, in the county of Suffolk and State of Massachusetts, have invented an Improvement in Bathing Apparatus, of which the following description, in connection with the accompanying drawings, is a specification, like numerals on the drawings representing like parts.

This invention has for its object to provide an improved bath apparatus by means of which electric or magnetic baths may be taken.

It comprises a bath-tub having its inner surface of some suitable insulating material, a generator for an electric current, and two electrodes connected to the generator and adapted to be placed in the bath-tub. Since the inner surface of the tub is of insulating material, the current of electricity in passing from one electrode to the other finds its way through the water in the tub, so that the person taking the bath receives all the beneficial results of the electric current. I preferably, also, provide some suitable devices for regulating the strength of the current which can be manipulated by the person taking the bath.

In the drawings, Figure 1 is a perspective view showing my improved apparatus, and Fig. 2 is an enlarged view of one form of electrode which I may employ.

The bath-tub is designated by 3 and may be of any suitable shape or construction provided its inner surface is made of insulating material. The bath-tub herein illustrated is provided with a lining 4, of glass, porcelain, or other insulating material, though a bath-tub made entirely of glass or porcelain or other insulating material would answer the purpose equally well.

5 designates a suitable generator for electric current, that herein shown being some well-known form of battery.

6 designates electrodes, which are connected to the generator by wires 7 and are adapted to be placed in the tub, as shown in the drawings. I will preferably use some suitable

form of sponge electrode—that is, an electrode such as shown in Fig. 2, which comprises a metal cylinder 8, preferably composed of aluminium and lead, which is embedded in a suitable sponge 9. The wires 7 will be connected to the cylinder 8 in any suitable way.

10 designates an induction-coil such as is used in the medical science, which preferably will be so constructed that the strength of the current may be regulated by it, and it may be arranged to give an interrupted galvanic or primary current, an interrupted faradic or secondary current, and also a combined galyano-faradic current. I will preferably place the coil or regulator 10 and the generator or battery 5 within convenient reach of the person taking the bath—as, for instance, upon a suitable shelf or other support 11.

In using the apparatus the tub is partially filled with water, as usual, and the electrodes placed in the tub, preferably at opposite ends thereof. The circuit is then closed and the regulator 10 adjusted to give the character and strength of current desired. Since the tub has a lining of insulating material, the water in the tub acts as a conductor between the electrodes, and the full strength of the current is thus carried through the water. The water thereupon becomes electrified, and the electricity is imparted to the body of the person in the tub. With this apparatus no violent electric shocks are felt, as is the case with most other electric apparatus; but, on the other hand, the device merely acts to reinforce the electricity in every part of the body and to conduct electricity to all parts of the body uniformly. In order that the electricity which may have been conducted to the bather may not be lost upon his leaving the tub, I preferably provide a foot-rest of insulating material, upon which he may stand while taking the usual rub after a bath. Such foot-rest may be made in various ways, though I have for convenience herein shown a portable rest in the form of slippers 12, of glass or other insulating material, into which the bather may step. These slippers keep the

bather's body insulated while he is rubbing and dressing, and thus prevent the escape of any electricity.

5 My improved apparatus is very simple and comparatively cheap and can be used by any person in any ordinary bath-tub, provided the tub has its inner surface made of insulating material. Moreover, by simply removing the electrodes from the tub the bath-tub
10 is adapted for use in the ordinary way. With my improved apparatus it is possible, therefore, to take an electric or magnetic bath or an ordinary bath, as desired.

15 While I have shown one form of the invention, it will be understood that various changes may be made without in any way departing from the spirit thereof.

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

1. In a bath apparatus, a bath-tub having

its inner surface formed of insulating material, a generator, a vibrator or electrotone, and electrodes adapted to be placed in the tub, said generator, vibrator, and electrodes being
25 electrically connected with each other.

2. In a bath apparatus, a bath-tub having a lining of insulating material, a generator, electrodes adapted to be placed in the tub and a vibrator or electrotone constructed to give
30 an interrupted current and also having means whereby the strength of the current may be regulated, said electrodes, vibrator, and generator being electrically connected.

In testimony whereof I have signed my name
35 to this specification in the presence of two subscribing witnesses.

ROBERT S. LAWRENCE.

Witnesses:

LOUIS C. SMITH,
JOHN C. EDWARDS.