(No Model.) 2 Sheets—Sheet 1.

J. McFARLAND & W. H. C. MARTIN.

Therapeutic Bath.

No. 239,106. Patented March 22, 1881.

Fig. 1.

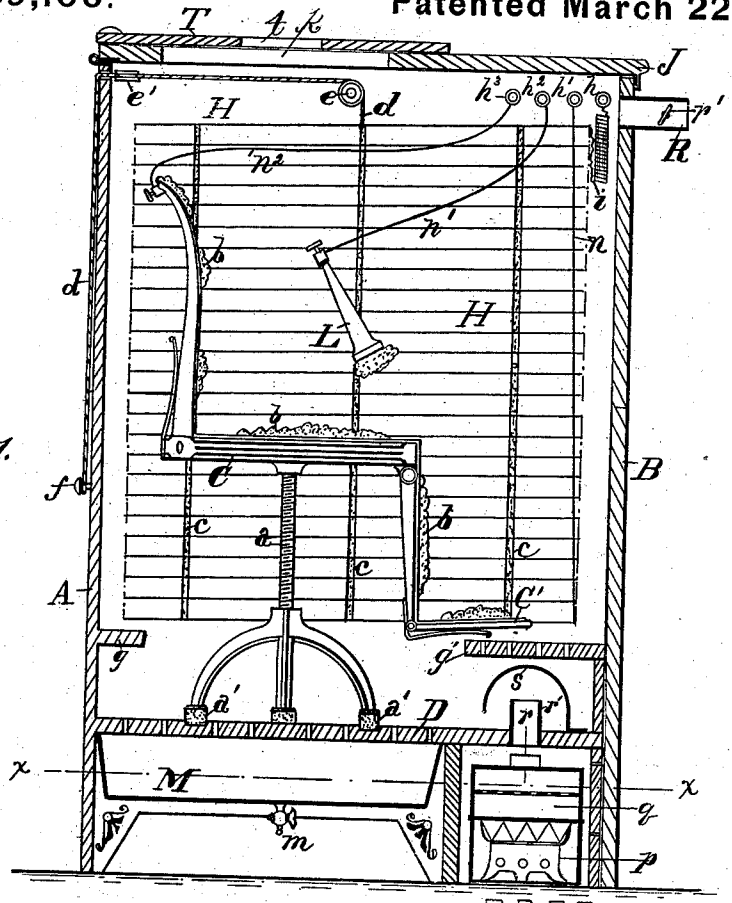
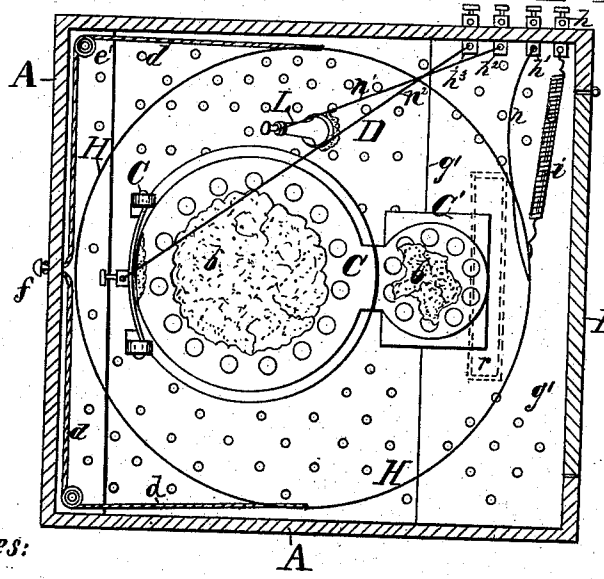


Fig. 2.



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(No Model.)

2 Sheets—Sheet 2.

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Fig. 3.

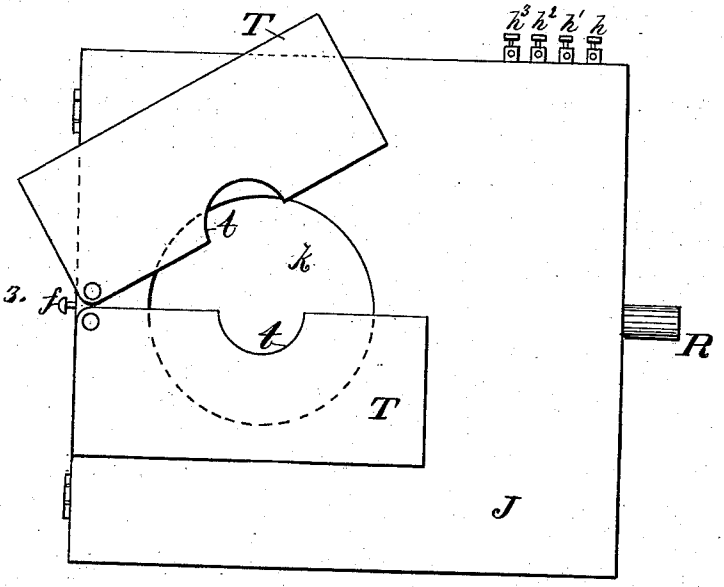
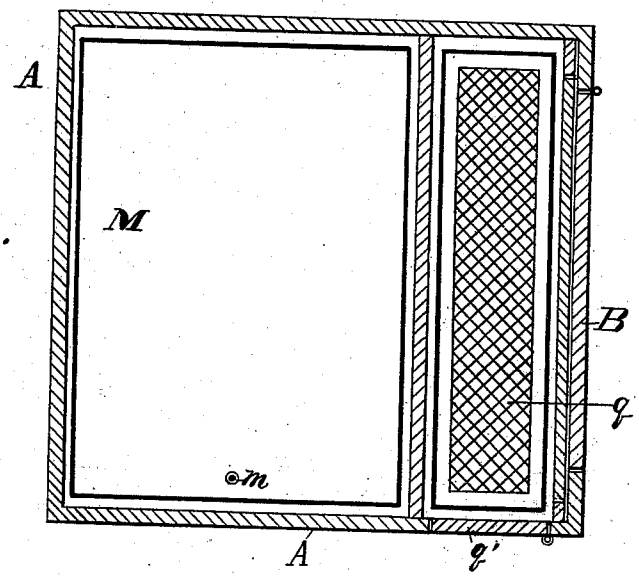


Fig. 4.



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UNITED STATES PATENT OFFICE.

JOSIAH McFARLAND AND WILLIAM H. C. MARTIN, OF COLUMBUS, OHIO.

THERAPEUTIC BATH.

SPECIFICATION forming part of Letters Patent No. 239,106, dated March 22, 1881.

Application filed September 29, 1880. (No model.)

To all whom it may concern:

Be it known that we, JOSIAH MCFARLAND and WILLIAM H. C. MARTIN, citizens of the United States, residing at Columbus, in the county of Franklin and State of Ohio, have invented certain new and useful Improvements in Therapeutic Baths; and we do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters or figures of reference marked thereon, which form a part of this specification.

The object of our invention is to provide an apparatus for the administration of a therapeutic bath which shall be arranged and combined to include means for galvanic and electro-magnetic currents, singly or together, and medicated vapor.

Our invention consists of certain improvements, which will first be described, and then pointed out in the claims.

In the accompanying drawings, Figure 1 is a vertical section of the case, showing the apparatus within the case; Fig. 2, a horizontal section of same, or a view of the interior of the case with top off. Fig. 3 is a view of the top. Fig. 4 is a horizontal section through *x x* in Fig. 1.

The letter A designates the case, made of wood or any other suitable material, and provided on the front with a door, B, for the entrance of the patient. The insulated chair C and foot-rest C′ are connected and jointed to permit of reclining, and the whole mounted on a screw, *a*, operated by suitable geared wheels, so that the chair and foot-rest may be raised or lowered. The chair is insulated by setting upon blocks *a′*, of glass, rubber, or other non-conductor, placed on the floor D, which is perforated to allow the water to drain off. The chair is covered with sheet-copper or any other suitable conductor on the back, seat, leg-support, and foot-rest, and also with sponge *b*, or other suitable material, from the shoulders, down the back, across the seat, at the leg-support, and upon the foot-rest. This sponge may be continuous or in separate pieces—that is, disconnected—as the case may require.

H designates the galvanic coil, which is sufficiently large to surround the chair and foot-rest. This coil or galvanic zone consists of a wire, H, insulated with rubber or other suitable substance, which passes around the chair a sufficient number of times—say, in practice, about fifty times or more—and all the coils are secured to tapes or cords *c*, which, at intervals around the coil, extend from top to bottom, so that when suspended by the tapes the several coils will be spaced equidistant. One or more cords, *d*, on each side are secured to the tapes, or to a hoop, which may be secured to the top coil, and pass through pulleys *e* and *e′*, made fast at the top of the side walls of the case, and thence pass through a single opening in the rear wall, and are fastened to a knob, *f*, or other device on the outside. These cords and pulleys serve to draw up and lower the galvanic coil H and sustain the same when in a raised position around the chair. When the coil is down it rests upon a shelf, *g*, at the rear and sides, and upon a perforated stool, *g′*, in front.

The letters h h' h^2 h^3 designate the connections from the batteries located outside of the case. A spiral wire, *i*, is attached to the connection *h* and to the top galvanic coil, serving to allow the coil to be lowered from the top downward; a wire, *n*, is attached to the connection *h′*, and to the bottom of the galvanic coil; a wire, *n′*, is attached to the connection h^2 and to an electrode, L; a wire, n^2, is attached to the connection h^3 and to the chair.

Below the perforated floor, and extending a portion of the way, a pan, M, made of sheet-zinc or other suitable material, is attached. The pan serves to catch the condensed vapor, and the water when a douche or shower bath is used. In the bottom is a plug or cock, *m*, by which water in the pan may be drawn off. At one side of this pan, preferably in front, the furnace-box or heater *p* is located, and may be inclosed with the casing or arranged outside. Above the furnace-box, and properly inclosed, is a metallic vessel, *q*, to contain the medicament which is vaporized by the heat of the furnace. The vapor rises through a slot or opening, *r*, in the floor, around which is a curb, *r′*, above the floor, and against a concave metallic plate, *s*, the side of which most remote from the chair is secured to the floor.

The side of the concave plate nearest the chair and the ends are open to allow the vapor to diffuse itself into the case. The plate serves to shield the opening *r* from the water when douche or shower baths are used. A door, *q'*, in the case gives access to the metallic vessel.

Through the walls of the upper part of the case are one or more outlets or ventilators, R, and the same is provided with a damper, *r'*.

The top of the case is provided with a hinged cover, J, through which is an aperture, *k*, directly over the chair, of size to admit a person's head readily, and through which a douche or shower bath may be administered to a person occupying the chair. On the upper side the cover is provided with two lids, T, each pivoted by one corner and adapted to swing half-way around, and both meet over the aperture *k*. A half-circular notch, *t*, is formed in one edge of each pivoted lid, so that when these edges meet the notches coincide, forming over the aperture *k* a circular hole of size to admit a man's neck. By this arrangement a person may be seated in the chair, the cover then lowered, but allowing the person's head to wholly protrude through the aperture *k*, and then the movable lids on the outer side of the cover may be swung around, so that their notched edges will meet over the aperture and the notches will encircle the person's neck.

By the construction of the galvanic coil to surround the person a magnetic influence is created that will greatly assist in the absorption by the system of medicated vapor, and in connection with the coil we have means to apply a current or currents from any galvanic or electro-magnetic battery, which currents may be independent of each other—the galvanic through and around the coil, while the electro-magnetic passes to the chair and electrode; or, by a slight change of the connections, both currents may be run on the same route and act harmoniously in producing a favorable effect on disease.

By the aid of proper electrodes any part of the person may be treated, internally or externally.

Having described our invention, we claim and desire to secure by Letters Patent of the United States—

1. The combination of the furnace or heater *p*, an opening in the floor provided with a curb, *r'*, projecting above the floor, and a shield to protect the opening, as set forth.

2. In combination with the opening in the floor for the entrance of vapor or heat, a concaved plate, *s*, placed above the opening, as set forth.

3. In a therapeutic-bath apparatus, the combination of a cover having an aperture, *k*, to readily admit the passage of a person's head, and two lids, T, movably secured to the outside of the cover, each lid having on one edge a notch, *t*, and adapted to be moved part way over the said aperture, whereby when the notched edges of the two lids meet a hole or opening is formed over the aperture in the cover, but of less size, substantially as and for the purpose set forth.

In testimony whereof we affix our signatures in presence of two witnesses.

JOSIAH McFARLAND.
WILLIAM H. C. MARTIN.

Witnesses:
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