

J. H. KELLOGG.  
ELECTROTHERAPEUTICAL CHAIR.  
APPLICATION FILED DEC. 5, 1916.

1,279,120.

Patented Sept. 17, 1918.  
3 SHEETS—SHEET 1.

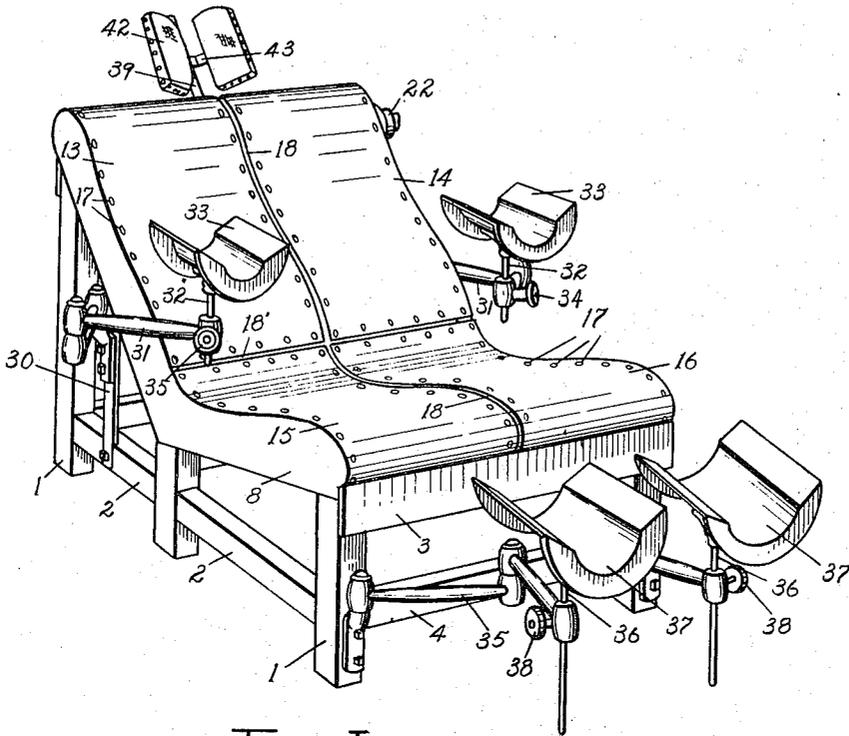


Fig. I.

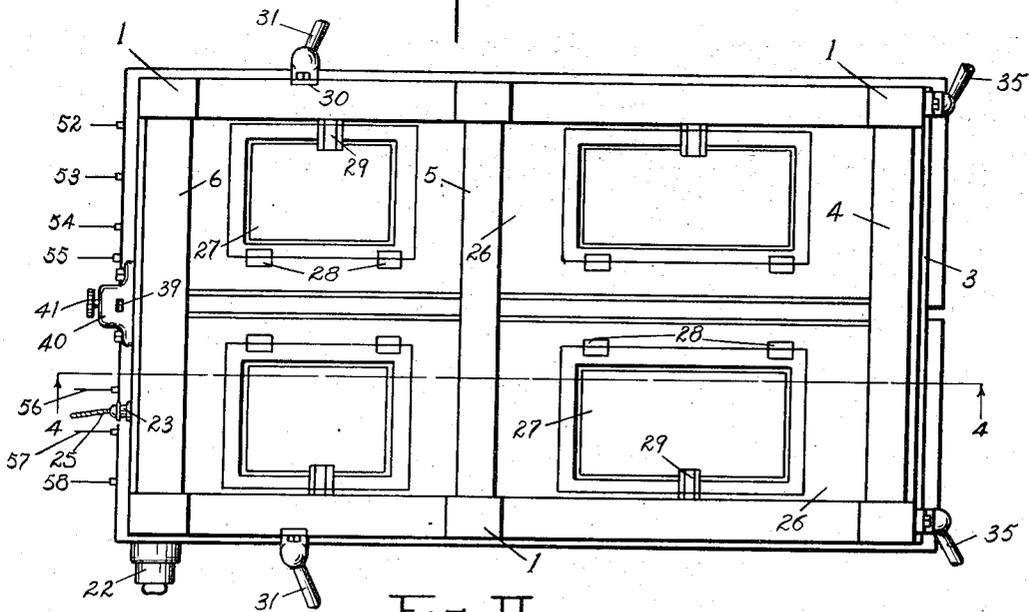


Fig. II.

WITNESSES:

*Lynn Gilman*  
*A. P. Sears*

INVENTOR.

JOHN H. KELLOGG

BY *Chappell & Earl*  
ATTORNEYS.

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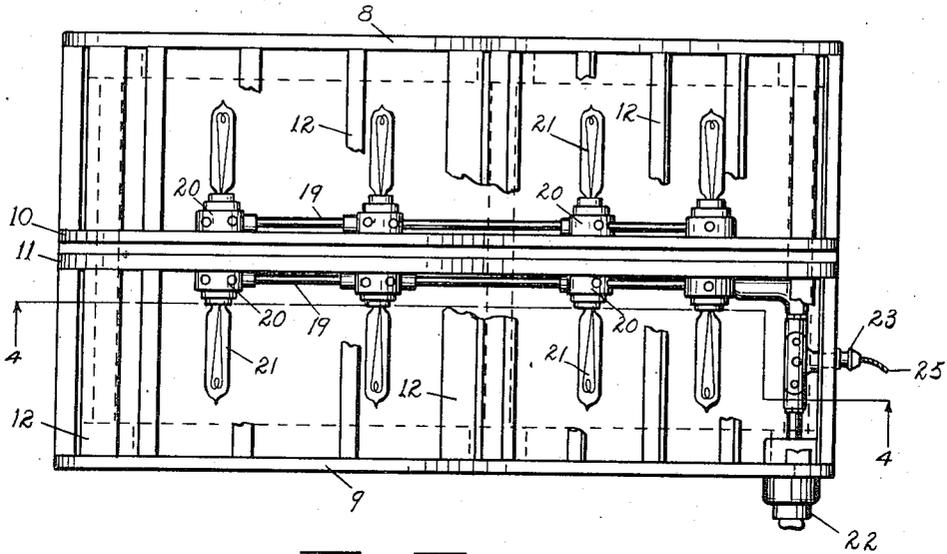


Fig. III.

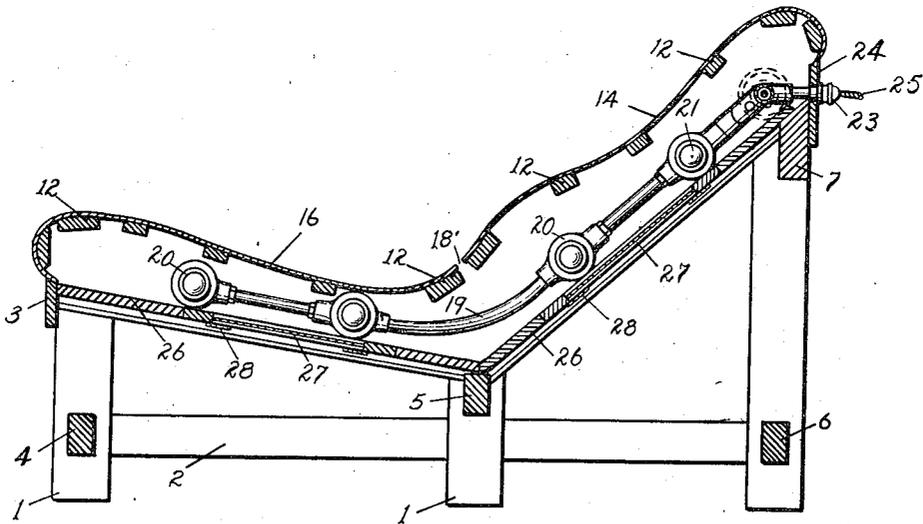


Fig. IV.

WITNESSES:

*Lynn Gilman*  
*A. P. Sears*

INVENTOR.

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BY *Chappell & Earl*  
ATTORNEYS.

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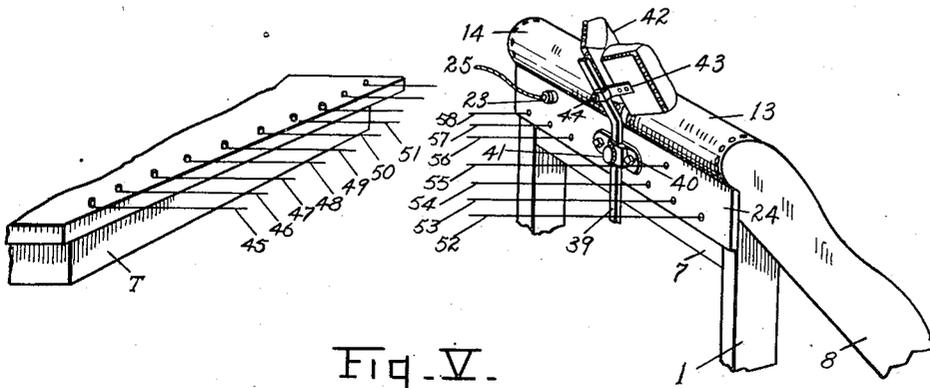


Fig. V.

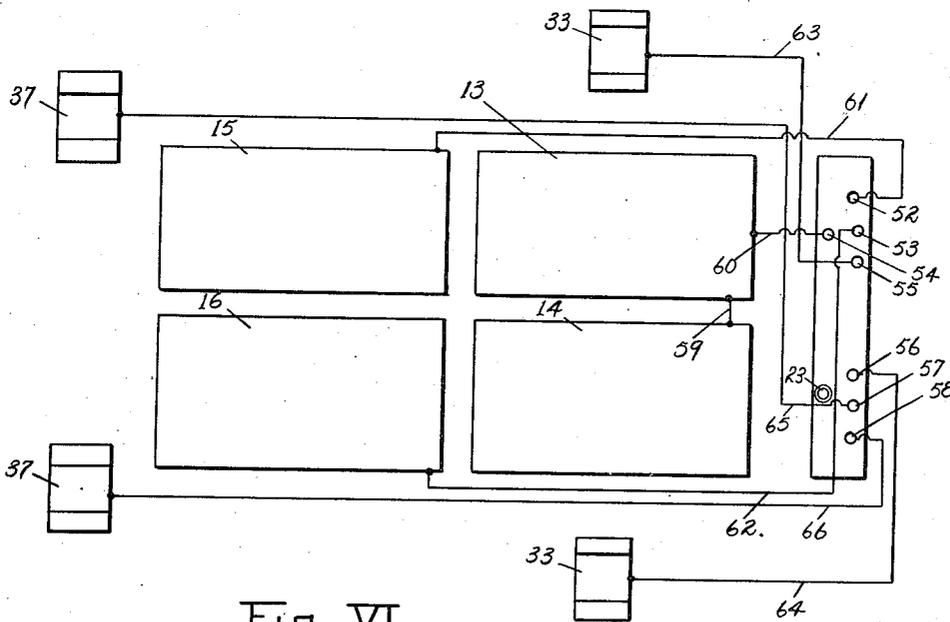


Fig. VI.

WITNESSES:

*Lynn Gilman*  
*A. A. Sears.*

INVENTOR.

JOHN H. KELLOGG

BY *Chappell & Earl*  
ATTORNEYS.

# UNITED STATES PATENT OFFICE.

JOHN H. KELLOGG, OF BATTLE CREEK, MICHIGAN.

ELECTROTHERAPEUTICAL CHAIR.

1,279,120.

Specification of Letters Patent. Patented Sept. 17, 1918.

Application filed December 5, 1916. Serial No. 135,143.

*To all whom it may concern:*

Be it known that I, JOHN H. KELLOGG, a citizen of the United States, residing at Battle Creek, in the county of Calhoun and State of Michigan, have invented certain new and useful Improvements in Electrotherapeutical Chairs, of which the following is a specification.

This invention relates to improvements in electrotherapeutical chairs.

The main objects of this invention are:

First, to provide a chair of the kind described having a plurality of electrodes for supporting various portions of the body, some of said electrodes being adjustable relatively to the others.

Second, to provide a chair of the kind referred to having electrodes of extended metal surface and means to warm the same in order to prevent the patient from experiencing disagreeable sensations when placed thereon.

Other objects, and objects relating to economies of structure and operation will definitely appear from the detailed description to follow.

The invention is clearly defined and pointed out in the claims. A structure showing the preferred embodiment of my invention is fully illustrated in the accompanying drawing, forming a part of this specification, in which:

Figure I is a front perspective view of a chair embodying the features of my invention.

Fig. II is an inverted view thereof.

Fig. III is a plan view of the chair showing the supporting electrodes and portions of the supports therefor removed.

Fig. IV is a vertical longitudinal section taken on line 4—4 of Fig. III.

Fig. V is a perspective view showing the head of the chair and a support for a source of current with wires connecting the two.

Fig. VI is a diagrammatic sketch showing the electrical connections.

In the drawing the sectional views are taken looking in the direction of the little arrows at the ends of the section lines, and similar numerals of reference refer to similar parts throughout the several views.

Considering the numbered parts of the drawing, the chair comprises a frame made of post 1 connected by side bars 2 and cross

bars 3, 4, 5, 6 and 7. Mounted upon the tops of the post 1 are the side rails 8 and 9, center rails 10 and 11 supported by the cross bars 3, 5 and 7. Supporting strips 12 are secured to the top sides of the side and center rails, the contour of the upper edges of the latter parts being such as to conform to the contour of the body when in a semi-reclining position. Mounted upon the strips 12 are metal electrodes 13, 14, 15 and 16 which constitute the seat and back of the chair. The electrodes are secured to their supports, which are of wood and constitute proper insulating means therefor, by any suitable means, such as screws or nails 17. These electrodes are spaced apart, as indicated at 18 and 18', so as to isolate them from each other.

Mounted on the outer sides of the center rails are conduits 19 connected at intervals with outlet boxes 20 provided with sockets for the electric lamps 21. The conduits have electric cables extending throughout their length and making proper connection with the outlet boxes, one side of the cable passing through the switch 22 and both ends of the cable extending through the bushing 23, which is secured in the head cross-bar 24, the end 25 of the cable, when the apparatus is in use, being connected to any suitable source of current.

In order to completely inclose the lamps 21 strips 26 are secured to the bottom of the center rails and to the side rails, thus forming a back wall for the chair.

Doors 27 are mounted in the back wall by means of hinges 28 and secured in closed position by latches or locks 29 of any desired construction. These doors provide ready access to the electric lamps.

At each side of the chair are supports to the upper ends of which are secured the adjustable brackets 31. The free ends of the brackets are each provided with a bore for receiving the post 32 of the arm electrodes 33, a set screw 34 being provided for securing the arm electrodes at any desired elevation. These arm electrodes constitute adjustable arm rests or supports.

At the front end of the chair are arranged adjustable brackets 35, which are similar in construction to brackets 31 and having secured therein posts 36 for leg supporting electrodes 37, set screws 38 being provided

for securing the electrodes 37 in any desired position. These electrodes constitute adjustable leg rests or supports.

At the head of the chair is a head rest 5 comprising a sliding bar 39 secured in a bracket 40 by means of a set screw 41 so that the bar 39 may be adjusted vertically. The upper end of the bar 39 is inclined rearwardly and supports the head rest 42 10 by means of a clip 43 which slides upon the upper part of the bar 39 and is secured thereto by a set screw 44.

Wires 45, 46, 47, 48, 49, 50 and 51 connect the source of current, not shown, on 15 the support T, with the binding posts 52, 53, 54, 55, 56, 57 and 58, respectively.

The back plates 13 and 14 are connected together by means of a wire 59, as shown in Fig. VI. The plate 13 is connected to the 20 binding post 54 by the wire 60 so that both plates 13 and 14 are charged at the same time.

Wires 61, 62, 63, 64, 65 and 66 connect the binding posts 52-58, inclusive, with the 25 electrodes 15 and 16, left arm electrode 33, right arm electrode 33, left leg electrode 37 and right leg electrode 37, respectively.

In operation, the current is first supplied to the lamps 21 by means of the switch 30 22. When the supporting electrodes have reached the proper temperature the patient is placed in the chair and the arm and leg electrodes applied to the desired portion of the anatomy and adjusted to proper position. 35 Current is then supplied to the wires 45-54, inclusive, so as to supply current to the various electrodes.

The source of current is preferably one such as that illustrated in my co-pending 40 application filed March 22, 1917, Serial No. 156,619, which supplies current either simultaneously to the various electrodes or to each of the electrodes in succession or to various pairs of electrodes in succession, the 45 current being preferably sinusoidal in character.

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

1. An electrotherapeutical device, comprising body electrodes constituting body supports, there being a pair of back supporting electrodes and a pair of upwardly inclined hip and thigh supporting electrodes, arm and leg electrodes adjustably 55 associated with said body electrodes and constituting arm and leg supports, and independent electrical connections for said arm and leg and body electrodes, the said back electrodes being oppositely inclined 60 relative to said hip and thigh electrodes.

2. An electrotherapeutical device, comprising body electrodes constituting body supports, there being a pair of back supporting electrodes and a pair of upwardly 65 inclined hip and thigh supporting electrodes, arm and leg electrodes constituting arm and leg supports, and independent electrical connections for said arm and leg and body electrodes the said back electrodes being 70 oppositely inclined relative to said hip and thigh electrodes.

3. In a structure of the class described, the combination of a frame-work having 75 portions extending upwardly and outwardly from a common line, hip and thigh electrodes mounted upon one of said upwardly and outwardly inclined portions, back electrodes mounted upon the other of said upwardly and outwardly inclining portions, 80 and means for supplying current to said electrodes, said electrodes constituting supports for the corresponding portions of the body.

In witness whereof, I have hereunto set 85 my hand and seal in the presence of two witnesses.

JOHN H. KELLOGG. [L. s.]

Witnesses:

ROY V. ASHLEY,  
ALICE G. KIRKLAND.