V. L. RUITER.

ELECTROTHERAPEUTIC APPARATUS.

APPLICATION FILED OCT. 16, 1915.

1,280,857.

Patented Oct. 8, 1918.

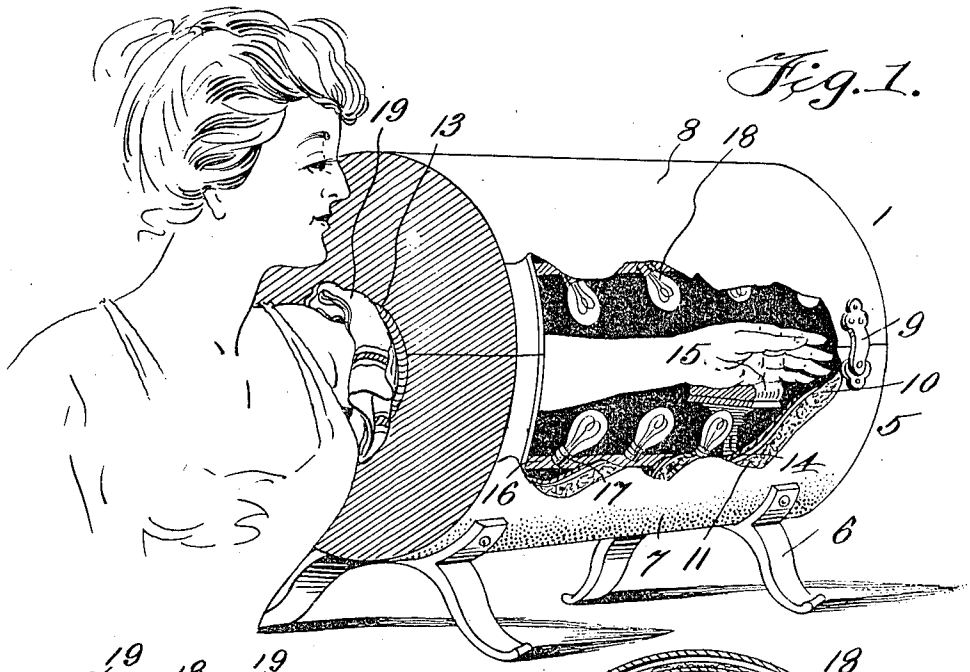


Fig. 1.

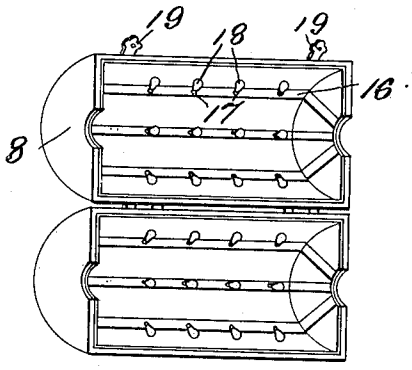


Fig. 3.

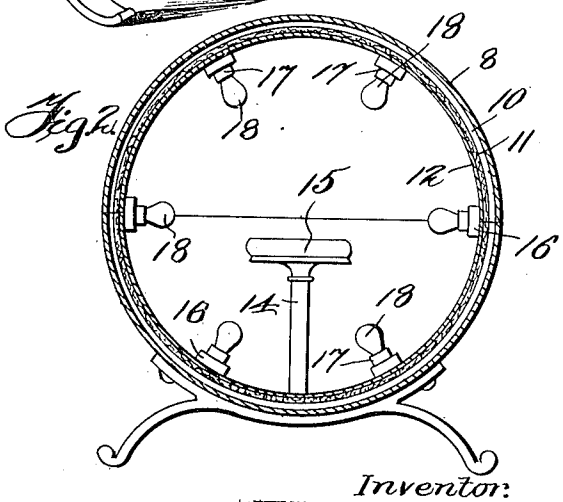


Fig. 2.

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UNITED STATES PATENT OFFICE.

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ELECTROTHERAPEUTIC APPARATUS.

1,280,857. Specification of Letters Patent. Patented Oct. 8, 1918.

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To all whom it may concern:

Be it known that I, VERN L. RUITER, a citizen of the United States, residing at Myrtle Creek, in the county of Douglas and State of Oregon, have invented certain new and useful Improvements in Electrotherapeutic Apparatus; and I 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.

This invention has for its object to provide a novel and efficient therapeutic apparatus in which various diseases and ailments of the limbs of the body may be effectively treated by the application of an intense dry heat and strong rays of light.

With this and other objects in view, the invention consists in the novel construction, arrangement and formation of parts as will be hereinafter specifically described, claimed and illustrated in the accompanying drawing, in which:

Figure 1 represents a perspective view of the apparatus, partly broken away,

Fig. 2 represents a transverse sectional view therethrough, and

Fig. 3 represents a perspective view of a slightly modified type of the invention.

Referring to the drawing in detail, wherein similar reference numerals designate corresponding parts throughout the several views, the numeral 5 indicates generally a cylindrical cabinet or receptacle adapted to be supported in horizontal position upon legs 6. The receptacle 5 comprises a lower and relatively stationary part 7 and an upper hinged part or cover 8, which latter is hingedly secured along one of its longitudinal edges to the corresponding longitudinal edge of the lower section or part 7. A cover 8 is adapted to be secured in closed position by a suitable type of fastener 9. The side walls of the parts 7 and 8 are preferably formed of metal and a lining of non-heat conducting material 10 is arranged within the receptacle in spaced relation to the side and end walls thereof to provide an air space 11. A cylindrical metallic lining 12 is arranged within the non-heat conducting lining 10 and the inner surface thereof is polished so as to highly reflect and focus the rays of light from the electric lamps arranged within the receptacle in the plane of the axis of the lining or reflector 12.

One end wall of the receptacle is formed with a central opening 13 of adequate diameter to receive the arm or leg of a person and a stand or support 14 is secured in vertical position in the end of the receptacle opposite the apertured end wall. The upper extremity of the support 14 terminates at approximately the longitudinal axis of the cylindrical receptacle and a cushion 15 is positioned thereon for supporting the leg or arm of the patient in the focus of the lamps.

A plurality of strips 16 are secured in spaced parallel relation to the inner reflecting wall 12 of the receptacle and a plurality of electric lamp sockets 17 are secured to said strips. Electric lamps 18 are removably secured in the sockets 17 and are disposed radially of the longitudinal axis of the receptacle.

In use, the arm or leg of the patient is positioned through the opening 13 in the receptacle and the extremity of the limb to be treated is supported upon the pad or cushion 15 and the support 14, as clearly illustrated in Fig. 1. A towel, or the like, 19 is wrapped about the limb of the patient so as to prevent the escape of light or heat from the interior of the receptacle. When the arm or leg is properly positioned, the electric lamps 18 are connected with a suitable source of electromotive force and the heat generated thereby heats the interior of the receptacle. The light from the lamps 18 is reflected by the reflector or lining 12 upon the arm of the patient and is extremely effective in the treatment of certain diseases and ailments familiar to those skilled in the art of therapeutics.

Referring to the modification illustrated in Fig. 3, it will be noted that both end walls of the receptacle are formed with openings 13 and this type of apparatus is specially designed for local treatment of the limbs intermediate the extremities thereof.

What I claim is:

An electro-therapeutic apparatus comprising a semi-cylindrical stationary section, legs supporting said section, a movable semi-cylindrical section having one of its longitudinal edges hinged to one of the longitudinal edges of the stationary section, means detachably connecting the other longitudinal edges of said section, one end of each section provided with a semi-circular opening which

openings are adapted to coöperate with each other in receiving the limb of a person, a non-heat-conductive material secured in spaced relation to the inner walls of said sections, a highly polished metallic lining disposed over the material to form a reflector, and longitudinally extending strips carried by said lining and end walls of said sections and adapted to support electrical illuminating means and to hold the lining in its proper position.

In testimony whereof I affix my signature in presence of two witnesses.

VERN L. RUITER.

Witnesses:
C. M. HERMANN,
CHAS. W. RICE.