

I. H. LEWIN.
 MEDICAL CABINET.
 APPLICATION FILED DEC. 10, 1912.

1,059,172.

Patented Apr. 15, 1913.

2 SHEETS—SHEET 1.

Fig. 1.

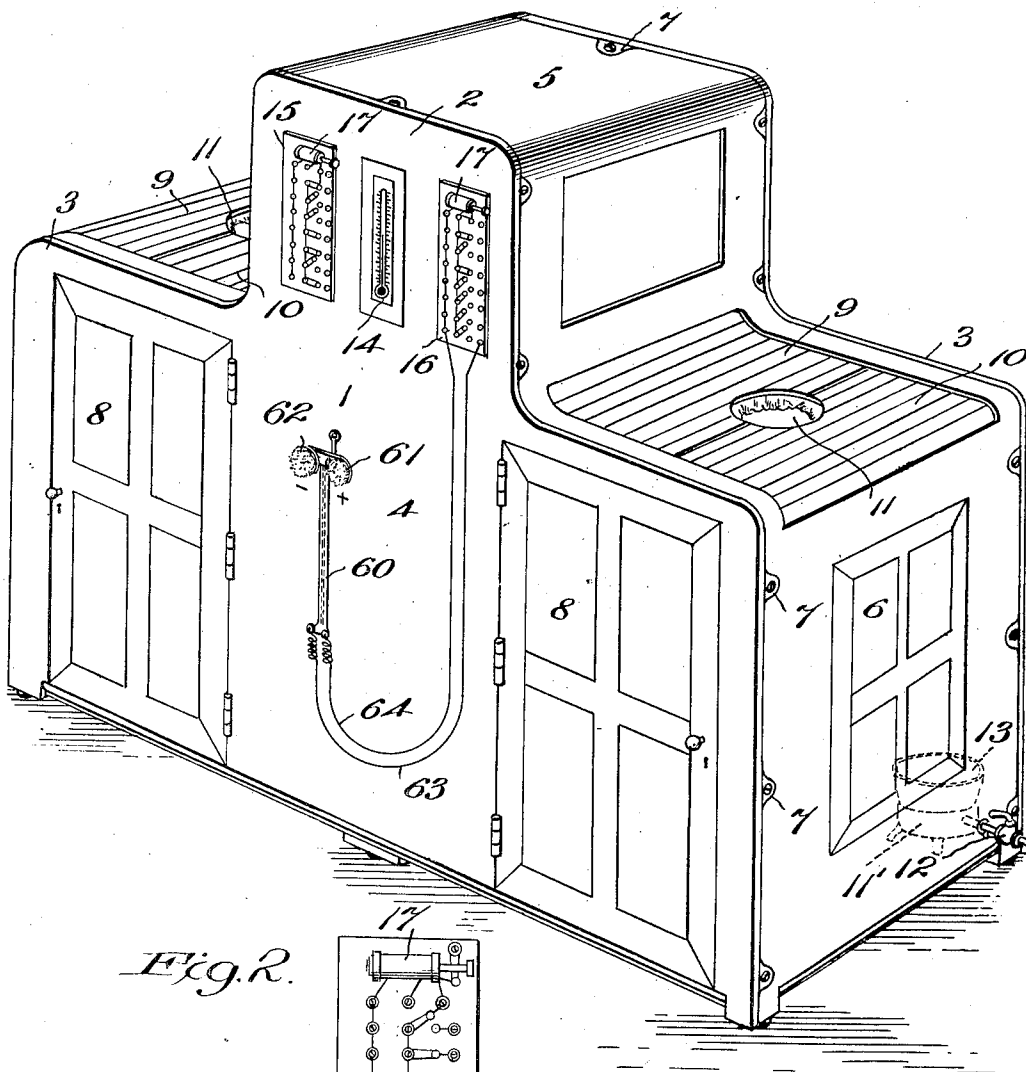
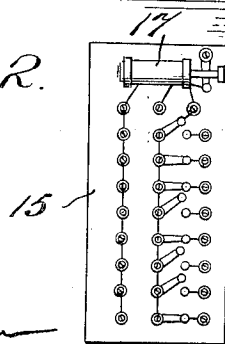


Fig. 2.



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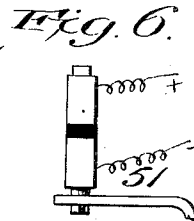
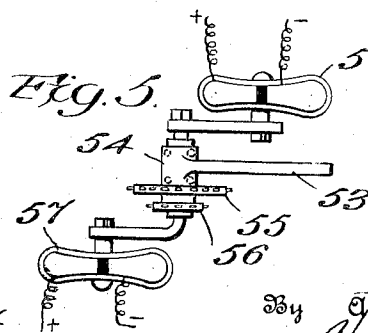
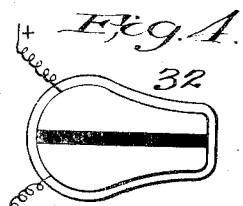
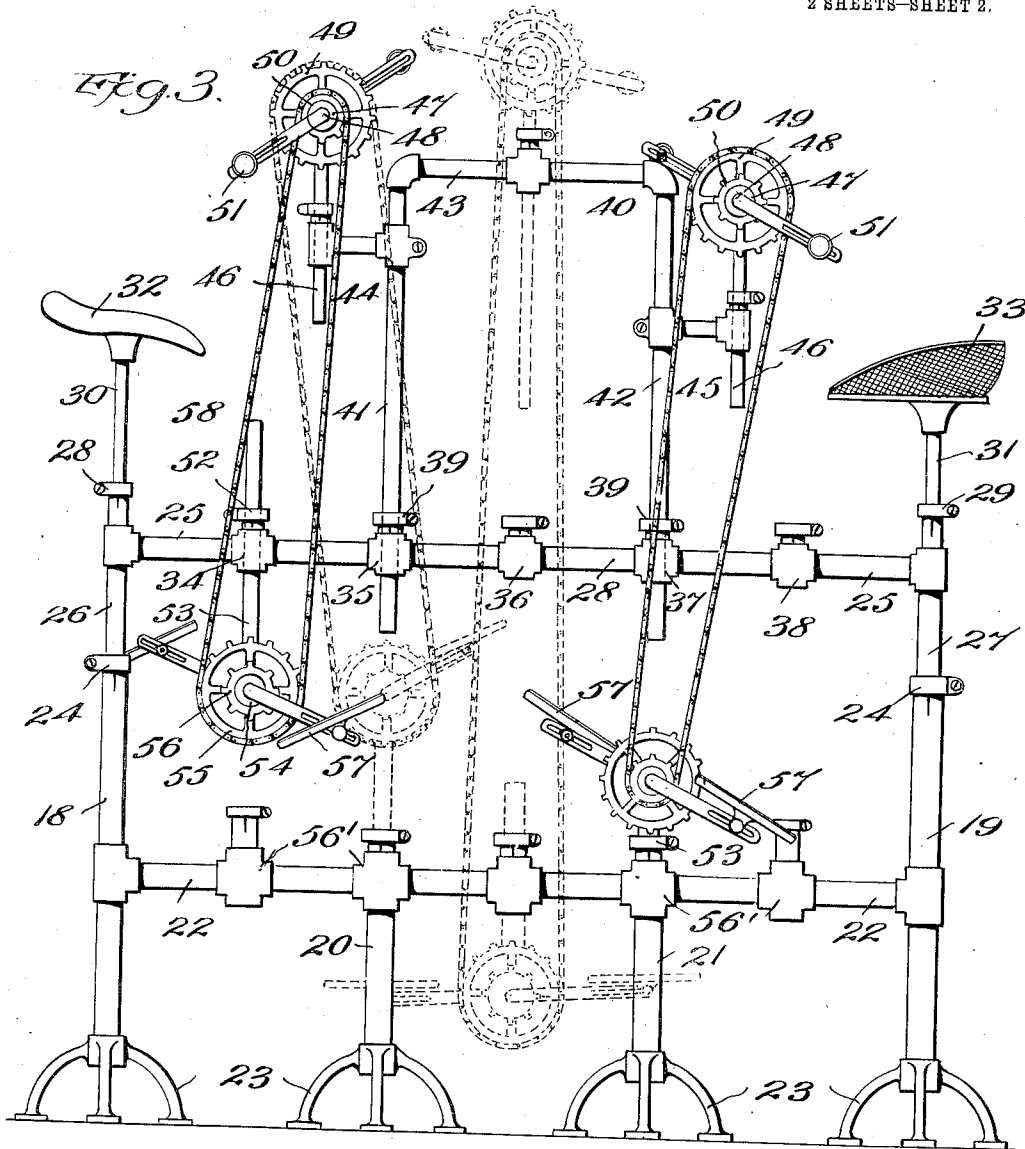
By *Victor J. Evans*
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2 SHEETS—SHEET 2.



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UNITED STATES PATENT OFFICE.

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MEDICAL CABINET.

1,059,172.

Specification of Letters Patent.

Patented Apr. 15, 1913.

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To all whom it may concern:

Be it known that I, ISIDOR H. LEWIN, a citizen of the United States, residing at New York city, in the county of New York and State of New York, have invented new and useful Improvements in Medical Cabinets, of which the following is a specification.

The invention relates to apparatus for treating diseases such as rheumatism, dropsy, stiff joints, nervousness, etc.

The object of the invention is to induce perspiration on the body of the patient so as to accelerate the passage of an electric current and facilitate the entrance into the pores of the skin of a medicinal vapor.

To these ends the invention consists in the novel details of construction and combination of parts more fully hereinafter described and particularly pointed out in the claims.

Referring to the accompanying drawings forming a part of this specification in which like numerals designate like parts in all the views:—Figure 1 is a perspective view of my improved apparatus. Fig. 2 is a detail view of the switchboard designed for sending a current of electricity through various parts of the body of a patient. Fig. 3 is a detail side elevational view of the exercising machine located within the cabinet. Fig. 4 is a detail plan view of one of the saddles. Fig. 5 is a detail view of one of the pedal and sprocket connections. Fig. 6 is a detail view of one of the crank handles.

The apparatus comprises a portable cabinet 1 constructed of suitable material and provided with the extended top portion 2 and opposed extended end portions 3. The side panels 4, top panels 5 and end panels 6 are all suitably secured together by means of the brackets 7. Within the sides of the extended end portions 3 are provided the hinged doors 8 which form closures for the entrances to the cabinet and within the tops of the extended end portions are provided the sliding top doors 9 and 10 in which are formed circular openings 11 adapted to surround the neck of a patient being treated.

A suitable heat generator 11' is located in one end portion of the cabinet and is connected by means of a valve controlled fluid supply pipe 12 to a source of fluid supply.

13 indicates a suitable receptacle in which

a medical compound is vaporized by the generator. This vapor by being confined in the cabinet has access to the exposed portion of the patient's body within the cabinet.

The temperature of the atmosphere within the cabinet is determined by means of a small thermometer 14 located in the extended top portion of the side panel 4.

Suitable switchboards 15 and 16 one for controlling each side of the apparatus, are mounted on the side of the extended top portion and are adapted to be connected to any suitable source of electrical supply. Suitable induction coils 17 mounted on the tops of the switchboards are arranged for increasing and diminishing the electrical supply to the patient.

The adjustable exercising machine located within the cabinet comprises the lower stationary frame having the long end uprights 18 and 19 and inner short uprights 20 and 21 which are all formed of suitable tubing, are connected together by the cross piece 22 and supported at their lower ends by the standards 23. Secured within the end tubes 18 and 19 by means of the clamping collars 24, is an adjustable frame 25 which comprises the end tubes 26 and 27 and braced by the connecting cross tube 28. Adjustably mounted within the upper ends of the tubes 26 and 27 by means of the clamping collars 28 and 29, are the saddle posts 30 and 31 to the upper ends of which are secured the saddles 32 and 33 which are adapted to support the patients when they are mounted on the exercising machine. The saddles may be of various sizes and shapes suitable to the patients requiring treatment. Secured to the cross tubing 28 is a series of equally spaced sockets 34, 35, 36, 37 and 38 and within the sockets 35 and 37 is adjustably mounted, by means of the clamping collars 39, a second pivoted frame 40 which comprises the uprights 41 and 42 connected at their top by means of a cross tube 43. Brackets 44 and 45 are adjustably connected to the sides of the uprights 41 and 42 and are adapted to support the posts 46 of the sprocket bearings 47 in which are mounted the handle crank shafts 48. To the inner shaft portion of these crank shafts, are secured the large sprockets 49 and small sprockets 50 and to the outer or crank portions are secured the adjustable crank handles 51. Adjustably connected to

the left of the adjustable frame 25, within the socket 34, and by means of the clamping collar 52 is the inverted post 53 of the sprocket bearing 54 in which is mounted the pedal crank shaft 53 to the inner portion of which is secured the large and small sprockets 55 and 56 and to the outer or crank portions are secured the adjustable pedals 57. An endless chain 58 connects the small sprocket 50 mounted on the upper or handle crank shaft, with the large sprocket 55 mounted on the lower or pedal crank shaft as seen on the left hand side of Fig. 3 of the drawings. Adjustably connected to the right of the stationary frame and located within one of a series of sockets 56, on the cross tube 22, is a post; pedal and sprocket connection similar to the one just described except that the endless chain is carried around the small sprocket on the pedal connection and up over the large sprocket on the handle connection. The provision of this interchangeable sprocket and chain connection is made for the purpose of changing the gearing of the machine to suit the requirements of the different patients. It will be also noted that all the parts of the machine are interchangeable and can be adjusted to various degrees to suit the requirements of various sizes and movements of the different patients desiring to use the apparatus. For instance, a patient suffering from rheumatism in his left arm, would naturally have a limited use of movement in that arm in comparison with his right arm. This limited movement is compensated for by the adjustment of the left crank handle to suit the necessary movement required by the left arm, and should a patient be lame in one leg the limited movement of the leg is taken care of by the proper adjustment of the proper pedal. All of the crank connections throughout the machine are to be provided with suitable ball bearings as indicated by dotted lines in Fig. 5.

By referring to Figs. 4 to 6, it will be seen that I provide the various saddles, pedals and crank handles with suitable contact plates insulated from each other. These plates are connected by the circuit wires to the switchboard, the circuit through the plates being closed by the presence thereon of that portion of the patient's body which they are intended to support. These parts are adapted to be separately controlled through the switchboard connections as has been previously described. For instance, a person afflicted with a disease in only one arm in using the machine, it is necessary only to connect the proper switches for sending a current of electricity to the afflicted part and controlling the amount flowing thereto, by means of the adjuster on the induction coil 17.

After a patient has been properly treated

within the cabinet he is taken out and given an electric massage. The means provided for accomplishing this further treatment (see Fig. 1) comprises a properly insulated instrument 60 having suitably connected at one end a pair of sponges 61 and 62, which are soaked with a suitably and especially prepared compound. Electrical connections 63 and 64 secured to the instrument 60 and to the switchboard 16, supply a current of electricity to the sponges the amount of which is also controlled by means of the induction coil 17.

From the foregoing it will be seen that my apparatus comprises a simple portable cabinet and an exercising machine located therein, that is capable of a wide and varied adjustment; that the apparatus may be readily taken apart and packed for shipment in a comparatively small space and that the same contains no intricate and fine parts that are liable to get out of order when the apparatus is most needed.

It is obvious that those skilled in the art may vary the details of construction and arrangements of parts without departing from the spirit of my invention and therefore I do not wish to be limited to such features except as may be required by the claims.

What is claimed as new is:

1. In an apparatus for treating disease, the combination of a portable cabinet adapted for receiving a patient, an adjustable exercising machine located within the cabinet, hand and foot operating mechanism mounted on the machine and adapted to be operated by the patient, and normally opened electrical circuits including contacts insulated from each other mounted on the said hand and foot operating mechanism and arranged to contact with the person operating the machine.

2. In an apparatus for treating disease, the combination of a portable vapor cabinet adapted for receiving patients, an adjustable exercising machine located within the cabinet, said machine comprising adjustable hand exercising means, and adjustable foot exercising means, and a normally opened electrical circuit including contacts insulated from each other mounted on the said hand and foot exercising means and arranged to contact with the person operated upon.

3. In an apparatus for treating disease, the combination of a vapor cabinet adapted for receiving at each end patients to be treated, an exercising machine located in the cabinet, said machine comprising an adjustable frame, adjustable saddles mounted on the ends of the frame, adjustable hand operating mechanisms mounted on the machine, adjustable foot operating mechanisms mounted on the machine, and means connect-

ing the said hand and foot mechanisms together.

4. In an apparatus for treating disease, the combination of a vapor cabinet adapted for receiving at each end patients to be treated, an exercising machine located in the cabinet, said machine comprising an adjustable frame, adjustable saddles mounted on the ends of the frame, adjustable hand operating mechanisms mounted on the machine, adjustable foot operating mechanism mounted on the machine, means connecting the said hand and foot mechanisms together, and a normally opened electric circuit including contacts insulated from each other and associated with the saddle, hand operating mechanism and foot operating mecha-

nism and arranged to contact with the person operating the machine.

5. In an apparatus for treating disease, the combination of a cabinet adapted for receiving patients, said cabinet comprising extended end portions, doors mounted in the sides of the extended end portions, sliding doors mounted in the tops of the extended end portions, and an exercising machine located in the cabinet and arranged to be operated by the patients.

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

ISIDOR H. LEWIN.

Witnesses:

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GEO. A. BYRNE.