

Aug. 14, 1934.

W. M. SHORT

1,970,200

THERAPEUTICAL BED PAD

Filed Sept. 12, 1932

2 Sheets-Sheet 1

Fig. 1.

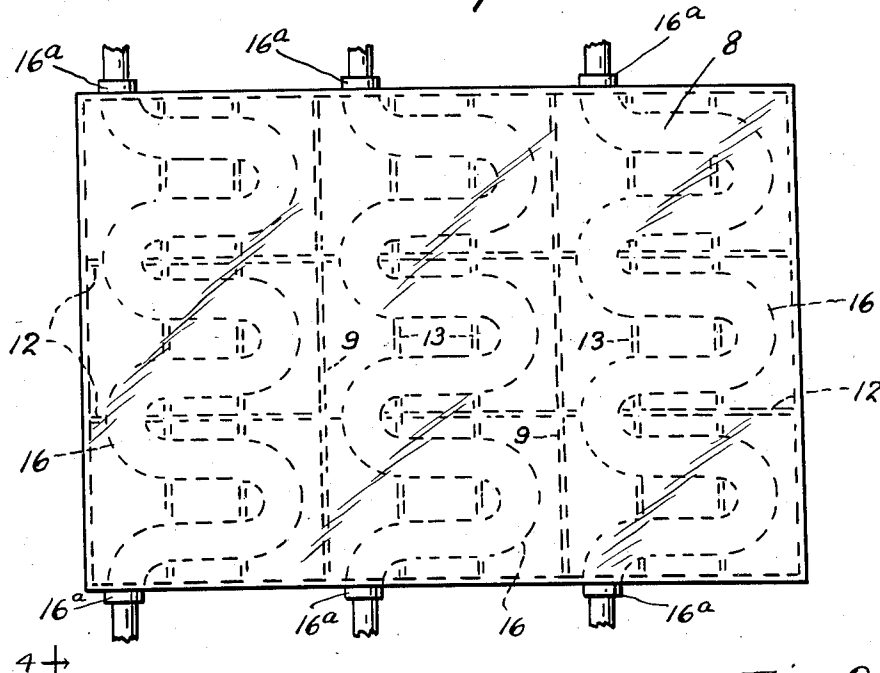
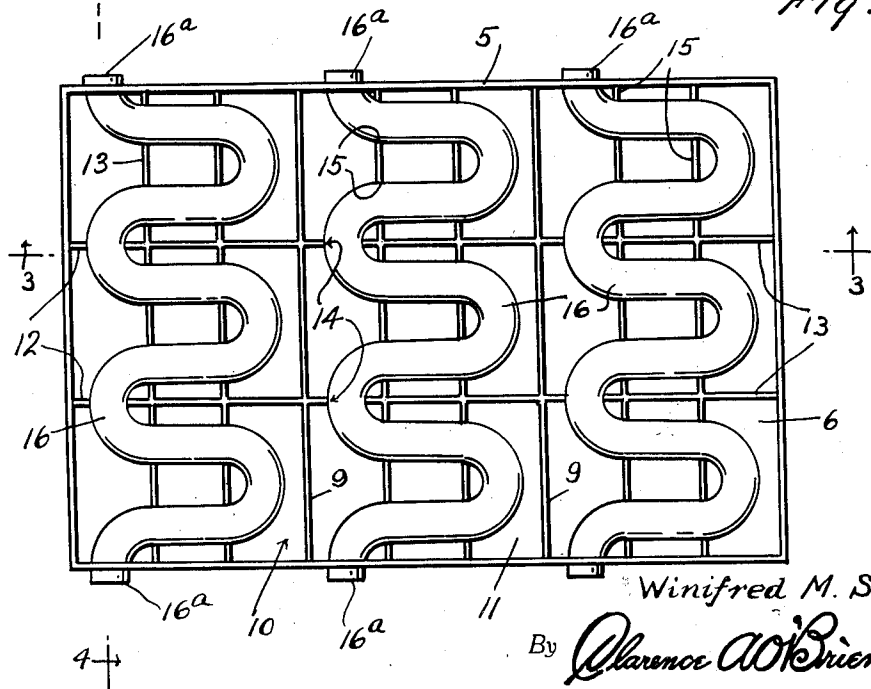


Fig. 2.



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2 Sheets-Sheet 2

Fig. 3.

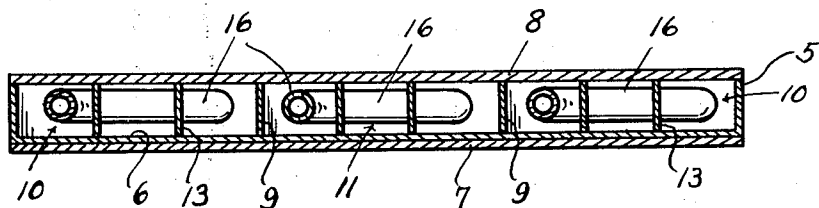


Fig. 4.

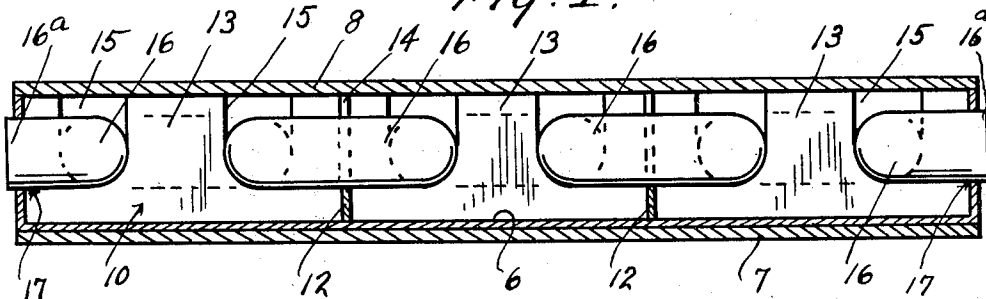
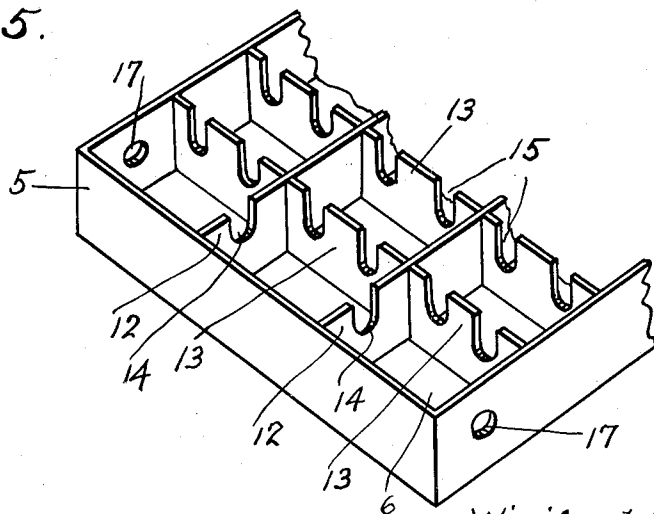


Fig. 5.



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UNITED STATES PATENT OFFICE

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THERAPEUTICAL BED-PAD

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Application September 12, 1932, Serial No. 632,827

3 Claims. (Cl. 128—254)

This invention relates to therapeutical bed-pads, and in accordance with the present invention a pad for use of invalids is provided, and is characterized by the provision of a plurality of compartments, each having extending there-through a tubing thru which a heating or a cooling medium, such as hot or cold water, or a suitable chemical solution, may be caused to circulate for the purpose of heating or cooling the interior of one or more selected sections of the pad.

The invention together with its numerous objects and advantages will be readily understood from a study of the following description taken in connection with the accompanying drawings wherein:—

Figure 1 is a top plan view of the pad, with the top member of the pad in position.

Fig. 2 is a top plan view of the pad with the top member removed.

Figs. 3 and 4 are sectional views taken substantially on the line 3—3 and line 4—4 respectively of Fig. 2.

Fig. 5 is a perspective view of an end portion of the pad with the top cover of the pad removed.

Referring more in detail to the drawings, it will be seen that the pad comprises a box-like structure, preferably rectangular in plan and designated by the reference character 5. The box-like body 5 of the pad is made of any suitable material and is open at its top. The outer face of the bottom 6 of the pad is covered with a sheet of suitable insulating material 7.

The top cover designated by the reference numeral 8 is adapted to be secured at its edges, to the upper edges of the walls of the box-like body 5 in any suitable manner, preferably in a manner to permit the cover 8 to be readily removed. Obviously detachable fastening elements, such as the well known type of "zipper" fastener or the like may be employed for securing the marginal edge of the cover 8 to the upper edges of the walls of the body 5. The cover 8 is made of suitable resilient material, and the box-like body 5 is also formed of a suitable flexible material.

Spaced transverse partitions 9 divide the body of the pad into end compartments 10 and an intermediate compartment 11.

Each of the compartments 10, 11 is provided with a pair of supporting ribs or partitions 12, together with pairs of supporting ribs or partitions 13 extending at right angles to the partitions 12.

Each partition 12 adjacent one end thereof is provided with a vertical notch 14, while each

of the partitions 13 is provided with a pair of relatively spaced notches 15. Arranged within each of the sections 10, 11, is a tube 16, each tube as shown, comprising a plurality of U-shaped sections, interconnected, the tube being formed of one piece, and it will be seen that each tube is supported by the ribs or partitions 12, 13, the notches 14 and 15 accommodating the straight and curved portions respectively of the tube as will be clear from a study of Figs. 2 to 4 inclusive.

Each tube 16 has its ends 16a extending through apertures provided therefor in the sides of the body 5. The apertures accommodating the ends of the tubes 16 are designated by the reference character 17.

From the description of the invention thus far, it will be apparent that the tubes 16 are almost substantially wholly confined within the pad, and each tube may have one end thereof connected with a suitable source of supply, whereby heating or cooling means, such as steam, hot or cold water, or a chemical solution, may be forced into the end of the said tube, and flow thru the coils of the tube to pass from the tube at the other end of the tube. It is apparent that all the tubes, or a desired number of the same may be used at the same time, dependent on just how much of the area of the bag is to be heated or cooled.

It is also apparent that the tubes may be formed of flexible material, and may be made of rubber or the like.

Even though I have herein shown and described the preferred embodiment of the invention, it is to be understood that the same is susceptible of further changes, modifications and improvements coming within the scope of the appended claims. Having thus described my invention what I claim as new is:—

1. A pad of the character described comprising a body having an internal chamber, a plurality of relatively spaced flexible conduit tubes extending thru the chamber, each conduit having an inlet and an outlet; and relatively angularly arranged partitions in the chambers and provided with notches in their upper edges to receive said tubes and to retain the latter distorted to provide sinuous passages through said chamber.

2. A pad of the character described comprising a box-like body, spaced partitions arranged in the body and dividing the same into a plurality of sections, a sinuous conduit tube arranged in each of said sections, and angularly related partitions arranged in each chamber and provided with notches in their upper edges receiving por-

tions of the tube to retain the latter distorted to provide a sinuous passage through each section.

3. A pad of the character described comprising a box-like body, spaced partitions arranged in the body and dividing the same into a plurality of sections, a conduit tube arranged in each of said sections, each of said tubes having an inlet

and an outlet, and each of said sections having arranged therein a plurality of relatively angularly disposed partitions supporting a tube and retaining the latter distorted to provide a sinuous passage through the section.

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10	85
15	90
20	95
25	100
30	105
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65	140
70	145
75	150