

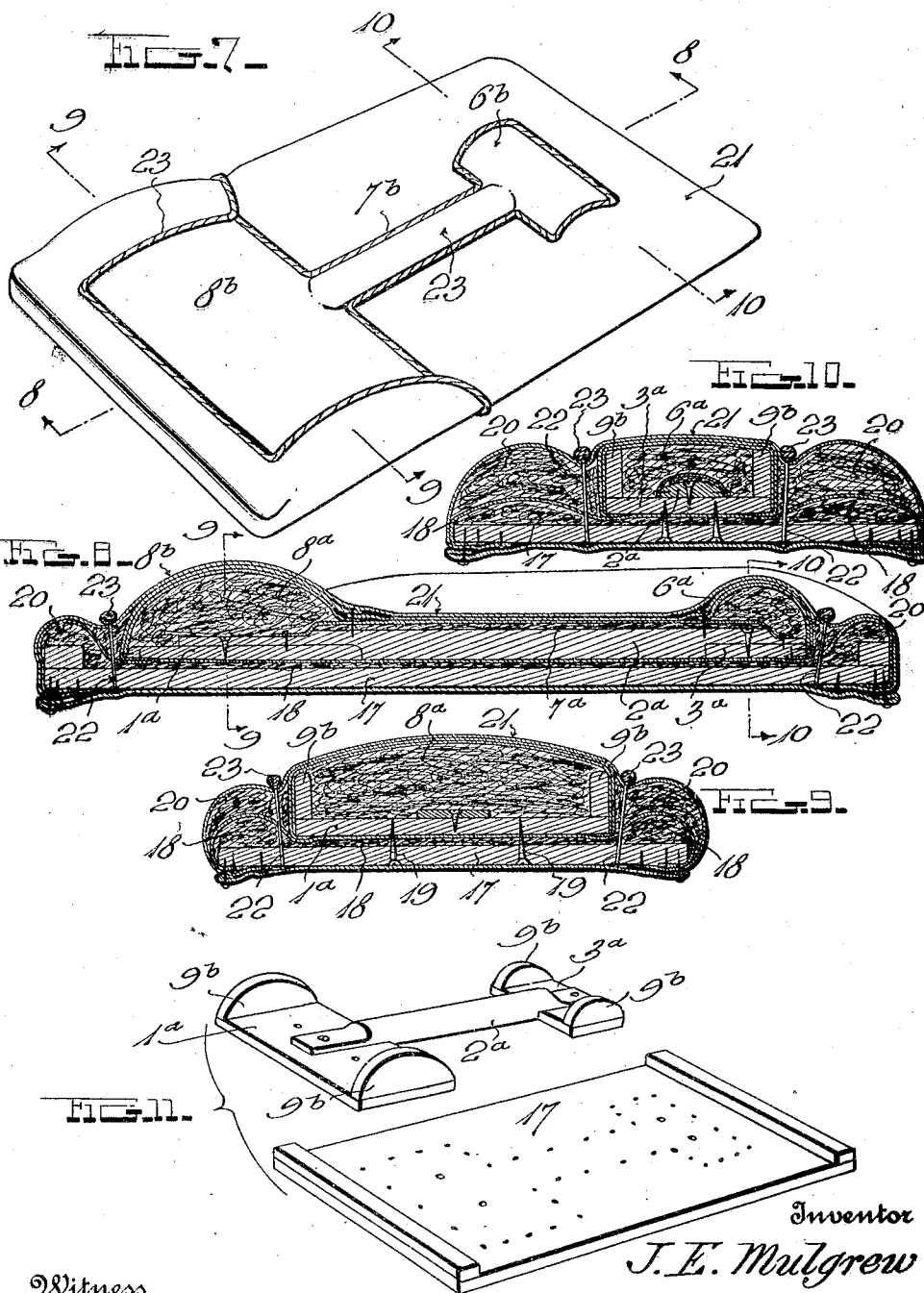
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J. E. MULGREW
BODY RELAXING DEVICE

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2 Sheets-Sheet 2



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UNITED STATES PATENT OFFICE.

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BODY-RELAXING DEVICE.

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To all whom it may concern:

Be it known that I, JOHN ELLIOTT MULGREW, a citizen of the United States, residing at Scranton, in the county of Lackawanna and State of Pennsylvania, have invented certain new and useful Improvements in Body-Relaxing Devices; and I do 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.

My invention aims to provide an advantageous device for effecting complete relaxation of the human body whether setting, reclining or lying down, by the proper use of novel back-supports which may be built in chairs, lounges or beds, or may be adjuncts therefor.

With the foregoing in view, the invention resides in the novel subject matter hereinafter described and claimed, the description being supplemented by the accompanying drawings.

Figure 1 is a perspective view showing one form of my invention.

Figure 2 is a central vertical longitudinal sectional view as indicated by line 2—2 of Fig. 1.

Figures 3 and 4 are transverse sectional views on lines 3—3 and 4—4 of Fig. 1.

Figure 5 is a perspective view of the device with the padding and covering removed.

Figure 6 is a detail perspective view of one end of the support for the dorsal region.

Figure 7 is a perspective view showing a different form of construction.

Figure 8 is a longitudinal sectional view as indicated by line 8—8 of Fig. 7.

Figures 9 and 10 are transverse sections as indicated by lines 9—9 and 10—10 of Figs. 7 and 8.

Figure 11 is a disassembled perspective view with the padding and covering removed.

In the drawings above briefly described, I have illustrated in detail, two forms of construction and while the structural details shown, have been specifically described, I wish it understood at the outset that the invention may be embodied in numerous other forms.

The numeral 1 designates a slightly elongated base board which is adapted to extend

tend across the lumbar region of the back. Extending from the base board 1, I have illustrated a relatively long and narrow base board 2 which is adapted to extend along the dorsal region, and carried by the end of the base board 2, remote from the base board 1, is a relatively small, slightly elongated base board 3 intended to extend across the region of the cervicals. Secured at its ends to the base board 3, and extending therefrom in the opposite direction from the board 2, I have shown a U-shaped bar 4 adapted to extend under or behind the user's head. This bar is padded as indicated at 5, a convex pad 6 is secured upon the base board 3, a pad 7 is secured upon the base board 2, and a relatively large convex pad 8 is mounted on the base board 1.

In the preferred form of construction, transverse cleats 9 are secured to one side of the base board 1 and extend across its ends, and similar cleats 9^a are secured to the ends of the base board 3, said cleats serving to effectively confine the pads 6 and 8, as will be clear by reference more particularly to Figs. 3 and 4. The coverings 10 for these two pads, preferably extend across the convex outer edges of the cleats 9 and 9^a and are held against said edges by curved strips 11 and 11^a which may well be nailed to said cleats. These strips are padded as indicated at 12 and 12^a and thus, ridges are provided for engagement with the body and neck of the user, so as to permit him to properly position his body against the device with ease.

When the device is being used, the convex pad 8 supports the lumbar, the pad 7 supports the dorsals, the pad 6 supports the cervicals, and the ring-like support 5 constitutes a rest for the head. The device may be used against the back of a chair, or may be laid upon a lounge or bed, so that it may be used whether the user is to sit erectly, recline, or lie down.

In the preferred form of construction, provision is made for extending the base board 2 and its pad 7 to different distances beyond the pad 8, so as to adjust the device for persons of different heights. In carrying out this object, one end of the base board 2 preferably rests slidably upon the base board 1 and is provided with an undercut guideway 13 receiving an undercut rib 14

secured to said base board 1, and an arched sheet metal guide 15 is secured to said base board 1 and extends over the pad 7, to support a portion of the padding 8 and prevent it from contacting with said pad 7. By employing this, or an equivalent construction, the device may be easily adjusted, as occasion may require.

The base board 3 is by preference secured rigidly to the board 2, for instance, by screws 16.

Figs. 7 to 11 disclose a construction which may be used when the invention is to be built into the back of a morris-chair or any other chair. In these views, I have illustrated at 17, a rectangular back board which may have a padding 18 against its front side. Secured against the front of this padding, by any suitable fastening means such as screws 19 passing through the back board 17, are relatively large and small base boards 1^a and 3^a corresponding to the base boards 1 and 3 above described. An elongated base 2^a which extends between the base boards 1^a and 3^a, is also secured against the padding 18 and this elongated base may well be non-adjustably secured at both ends to the bases 1^a and 3^a. I have shown cleats 9^b on the ends of the bases 1^a and 3^a and these bases are provided with pads 6^a and 8^a, between said cleats, and a suitable padding 7^a is also provided for the outer side of the elongated base 2^a.

Along the sides and ends of the several bases and pads, I have shown additional padding 20 applied to the outer side of the padding 18 and a covering 21 extends over the entire device. Stitching 22 preferably follows the outline of the bases 1^a, 2^a and 3^a and passes through the padding 18 and 20, through the covering 21 and the back board 17, to compress the stitched portion of said padding 18 and 20 and produce a unique appearance, as shown in Fig. 7. Appropriate ornamental braid or the like 23 may well be employed to hide the stitches 22 and the portions of the device surrounded by this braid constitute a support 8^b for the lumbar region, a support 7^b for the dorsal region, and a support 6^b for the cervical region, and the portion of the device above the last named support, forms a rest for the user's head.

By employing either of the constructions shown or a substantial equivalent thereof, a highly advantageous device is provided, and while excellent results have been obtained from the details herein disclosed, I wish to again direct attention to the fact that within the scope of the invention as claimed, numerous changes may be made.

I claim:

1. A human body relaxing device comprising a relatively large convex support for the lumbar region of the back, a rela-

tively small convex support for the cervical region, and a relatively long and narrow substantially straight transversely convexed support for the dorsal region extending between said relatively large and small supports, said relatively large support projecting laterally in opposite directions from said relatively long and narrow support.

2. A human body relaxing device comprising a relatively large convex support for the lumbar region of the back, a relatively small convex support for the cervical region, a relatively long and narrow substantially straight transversely convexed support for the dorsal region extending between said relatively large and small supports, relatively large support projecting in opposite directions from said relatively long and narrow support, and a head support adjacent said relatively small support.

3. A human body relaxing device comprising a base board adapted to extend transversely of the lumbar region, cleats secured to one side of said board and extending across its ends, a relatively small head board adapted to extend transversely of the cervical region, additional cleats secured to one side of said head board and extending across the ends thereof, convex pads on the two boards between the cleats thereof, and a dorsal region support extending between said pads.

4. A human body relaxing device comprising a support for the lumbar region of the back, and a relatively long and narrow support for at least the dorsal region, said lumbar support extending laterally in opposite direction from said dorsal support and having a guide into which one end of the latter extends slidably, permitting extension of the latter different distances from said lumbar support.

5. A human body relaxing device comprising a base, a relatively long and narrow padded support resting slidably against and extending from said base, the latter projecting in opposite directions from said relatively long and narrow support, an arched guard secured to said base between the ends of the latter and extending across said support, and padding over said base and guard.

6. A human body relaxing device comprising a support to extend across the lumbar region of the back, a relatively long and narrow dorsal region support extending from said lumbar support, the latter projecting in opposite directions from said dorsal support, a cervical region support carried by said dorsal support, and a head support carried by said cervical support.

7. A structure as specified in claim 8; said head support comprising a padded ring-like member, in substantially the same plane with the other supports.

8. A human body relaxing device com-

prising a relatively large base member to
extend transversely of the lumbar region, a
relatively small member for location at the
cervical region, an elongated base member
5 extending between the aforesaid and head
members and adapted to extend along the
dorsal region, padding on all of said mem-

bers a U-shaped bar secured at its ends to
said head member, and padding on said
bar to form a ring-like head support. 10

In testimony whereof I have hereunto
affixed my signature.

JOHN ELLIOTT MULGREW.