Dec. 3, 1935. H. L. SKILLMAN 2,023,248

REMOVABLE ADJUSTING CUSHION

Filed April 18, 1935 2 Sheets-Sheet 1

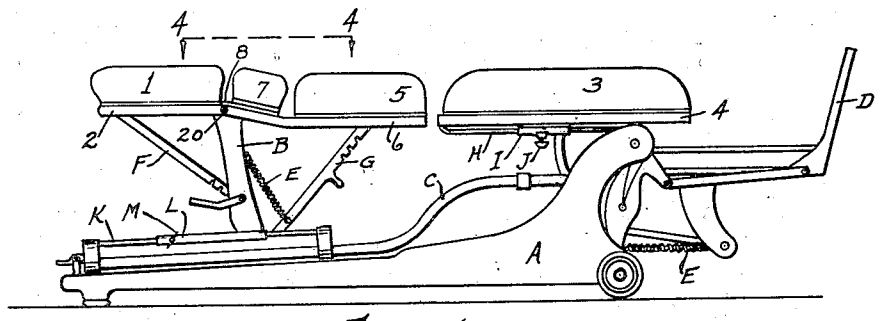


FIG. 1.

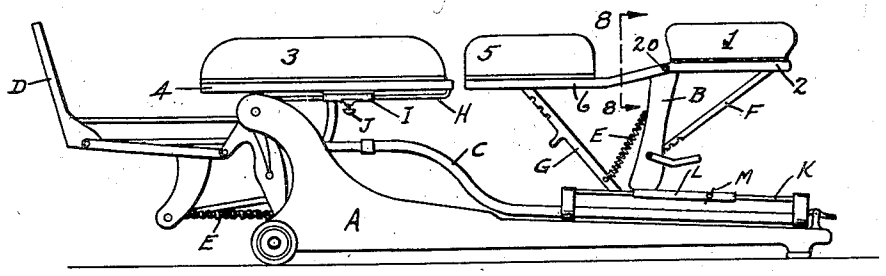


FIG. 2.

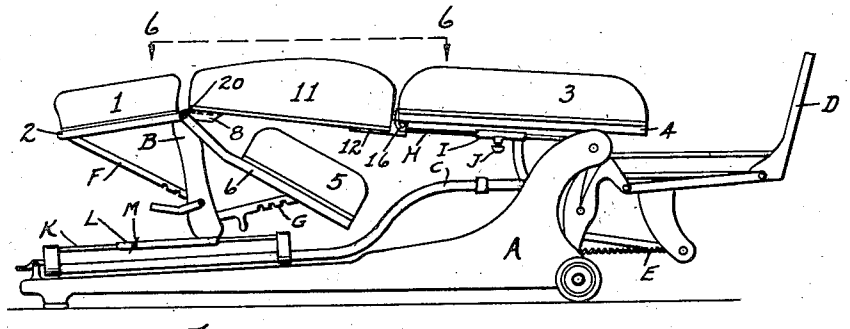


FIG. 3.

Inventor;
HOMER L. SKILLMAN:
By Robert W. Kaucble
Donald E. Windle.
Attorneys

Dec. 3, 1935. H. L. SKILLMAN 2,023,248

REMOVABLE ADJUSTING CUSHION

Filed April 18, 1935 2 Sheets-Sheet 2

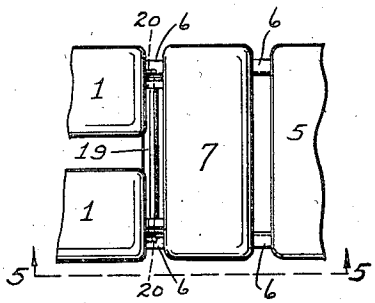


FIG. 4.

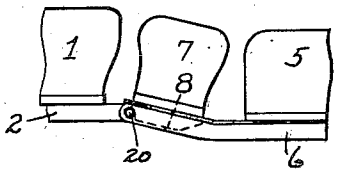


FIG. 5.

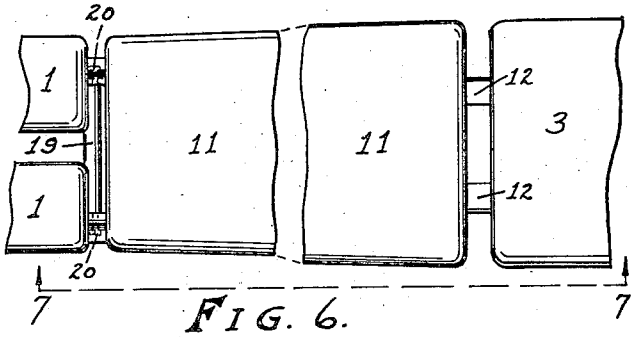


FIG. 6.

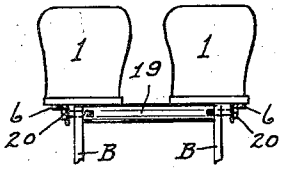


FIG. 8.

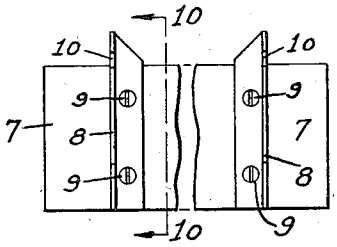


FIG. 9.

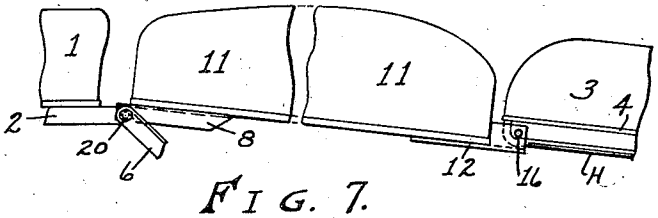


FIG. 7.

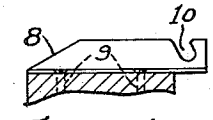


FIG. 10.

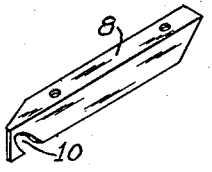


FIG. 12.

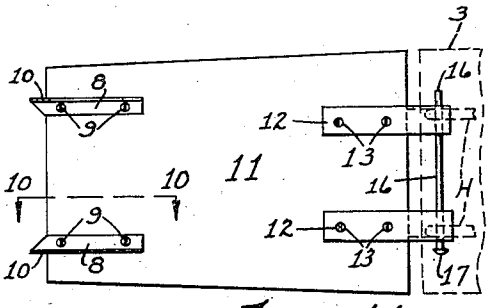


FIG. 11.

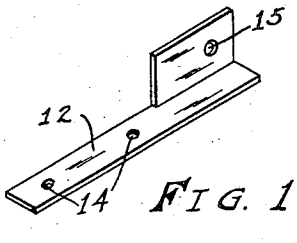


FIG. 13.

By

Inventor;
HOMER L. SKILLMAN:
Edwin W. Randle,
Donald E. Windle.
Attorneys

Patented Dec. 3, 1935 2,023,248

UNITED STATES PATENT OFFICE

2,023,248

REMOVABLE ADJUSTING CUSHION

Homer L. Skillman, Richmond, Ind.

Application April 18, 1935, Serial No. 16,981

4 Claims. (Cl. 128—70)

This invention relates to detaching means for cushions used in connection with tables having sectional cushions.

The principal object of my invention is to provide brackets for making a sternum cushion removable, and brackets for attaching to combination oval posture sternum and abdominal cushions.

Another object of my invention is to provide detachable means which are adapted to be rigidly secured to cushions.

Another object of my invention is to provide cushions, to be used in connection with chiropractic or other tables having sectional cushions, which may be easily removed therefrom and inserted thereinto.

Another object of my invention is to provide removable cushions for chiropractic or other tables having sectional cushions which may be used in connection therewith without having to make alterations of any kind in the construction thereof, and providing, in a single table, the advantages to be had only with a plurality of the present conventional tables.

Still another object of my invention is the provision of brackets which may be manufactured at low cost, which are simple of construction, and which are easily applied to sectional cushions.

Other objects and advantages of my invention will suggest themselves in the course of the following description, and that which is new will be correlated in the appended claims.

The most satisfactory manner of carrying out the principles of my invention in a practical, comprehensive, and efficient manner is shown in the accompanying two sheets of drawings, in which—

Figure 1 is a side elevation of a chiropractic table with the cushions thereof in a horizontal posture position.

Figure 2 is a side elevation of a chiropractic table with the sternum cushion removed therefrom.

Figure 3 is a side elevation of a chiropractic table with the sternum cushion removed therefrom, with the abdominal cushion dropped down, and my new combination sternum and abdominal cushion inserted therein.

Figure 4 is a partial top plan view taken from line 4—4 of Figure 1.

Figure 5 is a side elevation taken from line 5—5 of Figure 4.

Figure 6 is a partial top plan view taken from line 6—6 of Figure 3.

Figure 7 is a side elevation taken from line 7—7 of Figure 6.

Figure 8 is a detail section taken on line 8—8 of Figure 2.

Figure 9 is an under side view of my sternum cushion.

Figure 10 is a detail section taken on lines 10—10 of Figures 9 and 11.

Figure 11 is an under side view of my combination sternum and abdominal cushion.

Figure 12 is an isometric detail view of one of my brackets.

Figure 13 is an isometric detail view of one of my brackets which are secured to the rear end of my combination sternum and abdominal cushion.

Similar indices designate like parts throughout the several views.

In order that the construction, the operation, and the advantages of my invention may be more fully understood and appreciated, I will now take up a detailed description thereof, in which I will set forth the same as fully and as comprehensively as I may.

In the drawings, A designates the main frame or base of a chiropractic table, B designates the forward support, C designates the tiltable frame members, and D designates the footboard. E designates tension springs, F designates the head cushion adjusting bar, and G designates the abdominal cushion adjusting bar. H designates rods upon which the sleeve members I are slidably mounted, the sleeve members I being secured in the desired positions, on the rods H, by means of the threaded screws J. The forward supports B are slidably positioned on their respective rods K by means of their respective sleeve members L which may be rigidly secured in the desired positions, with relation to the rods K, by means of the respective screws M.

1 designates the head cushions of the table, the same having their base members 2 supported at the forward ends by the adjusting bar F, and being supported at the rear ends thereof by the forward support B. 3 designates the rear cushion which has the base members 4 secured to the under side thereof, and which are in turn rigidly secured to the slidable members I. 5 designates the conventional abdominal cushion, and which is supported by the members 6 which are connected at the forward ends of the base members 2 as will be explained more fully hereinafter.

7 designates my removable sternum cushion which is supported at its forward end by means

of the angular bracket members 8, the rear end of the sternum cushion 7 rests on and is supported by the members 6. The brackets 8 are rigidly secured to the under side of the sternum cushion 7 by means of the screws 9. Formed in the downwardly extending leg of each of the brackets 8 and located near the forward end thereof is a notch 10, the purpose of which will be hereinafter set forth.

11 designates my new removable abdominal cushion which is supported at its forward end by means of angular brackets identical with the brackets 8, and which for convenience of description, are designated by numerals 8.

The rear end of my combination sternum and abdominal cushion 11 is supported by the angular brackets 12. A portion of one of the legs of the angular brackets 12 is cut away in order that said brackets may be rigidly secured by the screws 13 through the apertures 14. Near the rear end of the upwardly extending leg of each of the brackets 12 an aperture 15 is formed, and through which the rod 16 extends, said rod 16 having a head portion 17 formed at one end thereof.

Located transversely under the rear ends of the head cushions 1 is the cross bar 19, the same having a threaded aperture formed in each end thereof, and into which the cap screws 20 are threaded. Each of the members 6 has an aperture formed therein near the forward end thereof, each of said apertures being adapted to encircle its respective cap screw 20 and thereby pivotally positioning each of the members 6 on its respective cap screw 20, and allowing the conventional abdominal cushion 5 to be lowered from the position shown in Figures 1 and 2 to the position as shown in Figure 3.

The notches 10 of the brackets 8 are adapted to engage their respective cap screws 20 in the spaces formed between the upper ends of the forward supports and the members 6.

The brackets 12 project rearwardly from the rear edge of the abdominal cushion 11, the rod 16 being adapted to extend through the apertures 15. In the utilization of my abdominal cushion 11, the rod 16 is inserted through one of the apertures 15 in its respective bracket 12, thence through the spaces formed between the rods H and the base 4 of the rear cushion 3, and thence through the aperture of the oppositely disposed bracket 12, as shown in Figures 7 and 11.

The utilization of my sternum and combination sternum and abdominal cushions is substantially as follows;

When it is desired to use the table for horizontal postures, the same is adjusted to the position as shown in Figure 1. When it is desired to use the table with oval posture abdominal cushion the sternum cushion 7 is removed from the table, as shown in Figure 2, after which the conventional cushion 5 is dropped to the position as shown in Figure 3. My new combination sternum and abdominal cushion 11 is then inserted as shown in Figure 3. With the brackets 8 attached to the sternum cushion, the same is easily removed or inserted. When inserting my sternum cushion 7, the notches 10 of the brackets 8 are registered with their respective cap screws 20, and the sternum cushion is thereby removably positioned with relation to the other cushions of the table. The rear end of the sternum cushion 7 rests on and is supported by the members 6. When it is desired to remove the sternum cushion, it is only necessary to lift the cushion vertically from its position.

When it is desired to insert my new combination sternum and abdominal cushion, it is necessary to lift the sternum cushion 7 vertically from its position, and to drop the conventional abdominal cushion to the position as shown in Figure 3. The forward end of my new combination sternum and abdominal cushion, having the brackets 8 rigidly secured to the under side thereof, is inserted in place and is removable therefrom identically with the manner in which the sternum cushion is inserted and removed. The rear end of my combination sternum and abdominal cushion has the brackets 12 rigidly secured thereto by means of the screws 13. After the forward end of my combination sternum and abdominal cushion is inserted in place, the rear cushion is adjusted forwardly or rearwardly until the rod 16 can be inserted through the apertures 15 and the spaces formed between the rods H and the base 4, as shown in Figures 7 and 11. After the above procedure has been followed, my combination sternum and abdominal cushion is hingedly supported at each end thereof, and thereby permitting the table to be adjusted to any desired position. When it is necessary to remove my combination sternum and abdominal cushion, the rod 16 is withdrawn therefrom, and the cushion is raised vertically from its position, after which the sternum cushion 7 may again be placed in position, and the conventional abdominal cushion 5 may be adjusted to the desired conventional positions.

I desire that it be understood that minor changes may be made in the several details, and in the arrangement of the parts herein shown and described, without departing from the spirit of my invention or sacrificing any of the advantages thereof which are new and useful, and which involve invention.

Having now fully shown and described my invention, what I claim and desire to secure by Letters Patent of the United States, is:

1. A removable sternum cushion, angular brackets secured to the under side of said cushion, each of said brackets having a horizontally extending leg and a vertically extending leg, said horizontally extending leg having apertures formed therein, said vertically extending leg having a downwardly directed notch formed therein, each of said notches being adapted to register with a supporting bolt on tables having sectional cushions, and means for rigidly securing the horizontal leg of each of said brackets to the under side of the sternum cushion.

2. In combination with an adjusting table having head cushions and a rear cushion, a removable abdominal cushion having brackets rigidly secured to the forward and the rear end portions of its under side, said brackets being adapted to register with frame members of the table, and hinged joints formed at the forward and the rear ends of said abdominal cushion by the connections between the frame members and said forward and rearward brackets.

3. In combination with a sternum cushion, brackets rigidly secured to the under side of said cushion, each of said brackets being angular-shaped and presenting two legs at right angles to each other, one leg of each of said brackets having a plurality of apertures formed therethrough and providing means through which securing means extend, and the second leg of each

bracket having a downwardly opening slot formed therein near the forward end thereof.

4. In combination with an abdominal cushion of the class described, angular-shaped forwardly extending brackets, each of said brackets having one leg thereof rigidly secured to the under side of said cushion with a second leg extending at right angles to the first mentioned leg, said second leg having a downwardly opening slot formed therein, rearwardly extending brackets, each of said brackets having one leg continuous and a second leg formed at right angles to the first leg, said second leg being of less length than the first-mentioned leg, the first-mentioned leg having a plurality of apertures formed therethrough and through which securing means extend, and said second-mentioned leg having an aperture formed therethrough and adapted to receive a securing means.

HOMER L. SKILLMAN.