Dec. 10, 1935. J. LORANG 2,023,429

CHIROPRACTIC TABLE

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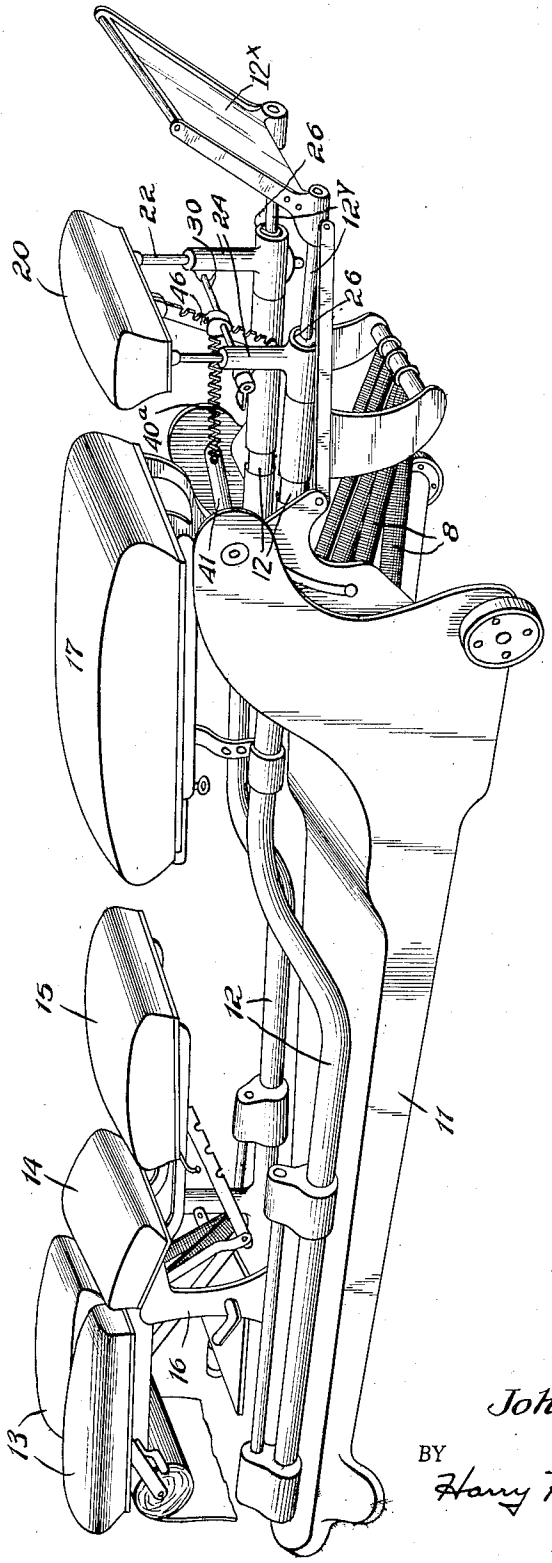


Fig. 1.

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Fig. 2.

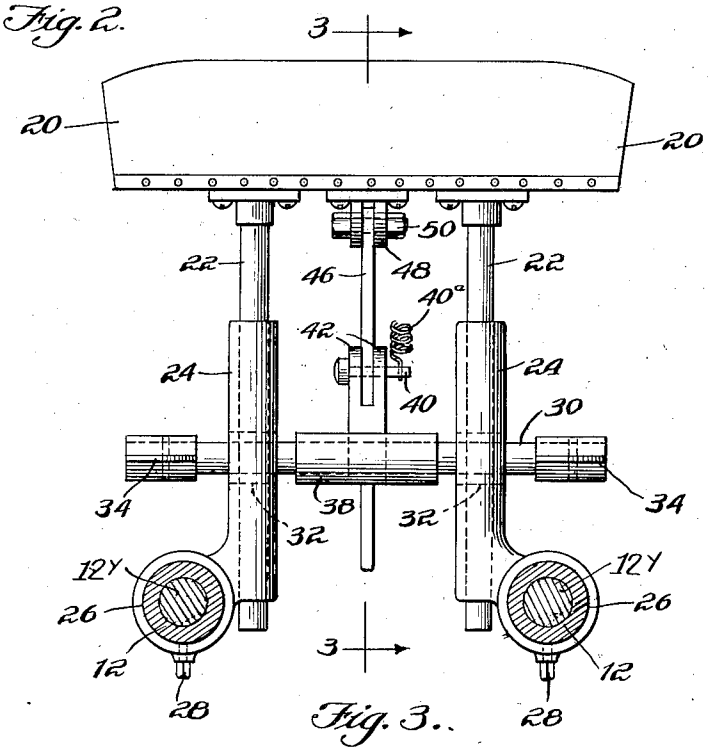
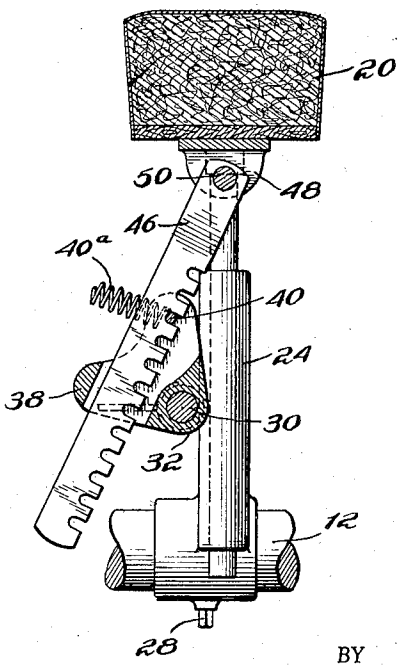


Fig. 3.



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UNITED STATES PATENT OFFICE

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CHIROPRACTIC TABLE

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Application May 21, 1934, Serial No. 726,624

2 Claims. (Cl. 128—72)

My invention relates to improvements in surgical operating tables and more particularly to improvements in tables of this class that are adapted for use by chiropractors, osteopaths, etc., for supporting patients in various reclining positions, to assist in the administration of chiropractic and other body adjustments.

My invention relates more particularly to certain mechanical improvements that are adapted to be embodied in chiropractic adjustment tables of the class described and referred to in United States Patents Numbered 1,399,419 and 1,448,477.

The principal object of the present invention is to provide novel means for obtaining and adjusting leg or ankle support cushions and to provide strong and durable frame supporting elements for the same.

A further object of my invention is to provide improved means of the type described which are easily and simply constructed and capable of long and hard usage without becoming broken or out of order.

A further object of my invention is to provide means of the type described capable of easy and simple adjustment and capable of being secured to commercial chiropractic tables already on the market.

For general understanding of devices of this class, reference should be had to the above mentioned patents wherein the principal elements of operating tables relating to this art are more fully described.

As is clear in these patents, in order to permit of the proper weight distribution in supporting a torso, several cushions are customarily provided which cushions may, through suitable adjustment means, be interposed at various points for supporting the head, chest, abdomen, and body extremities. By raising certain ones of these cushions various suspensions may be obtained for promoting relaxation to permit various adjustments or treatments as are well known to those skilled in the art of administering them.

Among the cushions and supporting means heretofore employed for obtaining these objectives, there may be enumerated the head cushion, chest and abdominal supporting cushions and leg cushions. Nothwithstanding the provision of the aforedescribed supporting members, there has been found, nevertheless, that certain desirable positions and torso suspensions have not been obtainable through the use of the supporting members heretofore known.

Accordingly, the present invention has for its salient object the provision of an additional supporting means that may by suitable longitudinal adjustment be interposed in the region of the rear of the ankle or calf or when a patient is supported facing downwardly in the region just above the instep or shinbone.

In addition to the foregoing objects, further means are provided for obtaining divers vertical adjustments for assisting in the displacement of body weight in the aforedescribed regions so as to make it possible to obtain certain body positions not heretofore obtainable by the use of means previously known.

For a better understanding of the present invention and its various uses and application, reference should be had to the following specification and the accompanying drawings, in which

Fig. 1 is a perspective view of a chiropractic operating table illustrating one embodiment of the present invention applied thereto;

Fig. 2 is a transverse sectional view showing an embodiment of the present invention as illustrated in Fig. 1.

Fig. 3 is a detailed sectional view taken along the lines 3—3 of Fig. 2, illustrating more clearly the adjustment for regulating the vertical position thereof.

Referring more particularly to the accompanying drawings, I provide a supporting frame 11 upon which a pair of rail sections 12 are anchored. These members permit the longitudinal adjustment and regulation of the various supporting cushions and their control means. A pair of head cushions 13, a chest cushion 14, and an abdominal cushion 15, are usually provided. This group of support members may be mounted upon the bracket or frame member 16 supported as shown from the rail sections 12. A leg support member 17 may be supported from the same rail portions 12 at a point beyond the abdominal support member 15. A foot support 12x is mounted for longitudinal adjustment on portions 12y which are telescopically mounted at one end of the table in the ends of the rail portions 12. The entire supporting bed section consisting of the head, chest, abdominal, and leg cushions, is resiliently supported in the well-known manner by suitable major spring members 18 which co-operate with the manual effort to raise or lower the table.

The specific assembly to which this invention relates may comprise the calf or ankle rest 20, in the form of a cushion mounted upon suitable vertical rods 22 which are positioned in upright bearing members 24. The bearing members 24 may have cross bores 26 therein adjacent the

lower end thereof, to provide means for mounting the same upon the rail members 12.

Bolt members 28 may be provided for rigidly locking the bearing members 24 in any desired longitudinal position upon the rods 12. A cross rod 30, is adapted to be supported in a pair of bosses 32 formed upon the sides of bearings 24. The cross rod 30 may have a pair of foot pedals 34 secured to the extended ends thereof, locked thereto by suitable pin members 36. A latch member 38 may be mounted upon the cross rod 30 intermediate its ends, and be formed with a latch pin 40 carried by a pair of ear members 42. A stop member 44 may be formed between the ends of the ears 42.

A rack member 46 is adapted to be pivotally fastened to a bracket 48 secured to the underside of the foot rest 20 upon a suitable bolt member 50. The rack member 46 is formed with a plurality of notches 52 upon the face thereof, capable of engagement with the latch pin 40.

A spring member 40*a* is attached to the latch pin 40 and connected with a cross brace 41 on the frame 11 of the device. This spring normally holds the pin 40 in engagement with one of the teeth or notches 52.

With the above mentioned construction, it can be seen that the foot rest 20 may be raised to any desired position by merely pressing upon one of the foot pedals 34, lifting the same, and it may be as readily locked into place by releasing the pedal, at which time the spring presses the latch pin into one of the notches.

While I have illustrated and described one specific embodiment of my invention, it will of course be understood that changes and modifications may be made in the specific details shown. I do not wish to limit myself in any particular; rather what I desire to secure and protect by Letters Patent of the United States, is:

1. In a chiropractic adjustment table including torso supporting elements, a leg supporting member and a foot support, an ankle support between said foot support and said leg support, means for adjusting said ankle support vertically, means for adjusting said ankle support longitudinally, said last named means comprising a pair of track members upon which said leg, ankle, and foot supports are slidably mounted for separate adjustment.

2. In a chiropractic adjustment table including torso supporting elements, a leg supporting member and a foot support, an ankle support between said foot support and said leg support, means for adjusting said ankle support vertically, and means for adjusting said ankle support longitudinally with respect to said leg support and said foot support.

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