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ARMREST ATTACHMENT FOR SURGICAL TABLES

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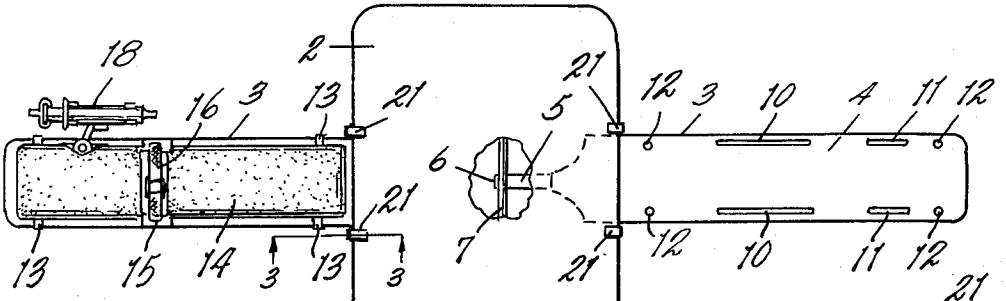


FIG. 1

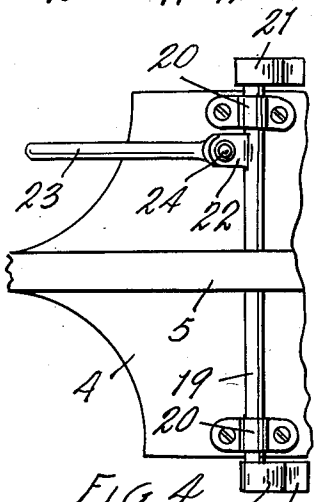


FIG. 4

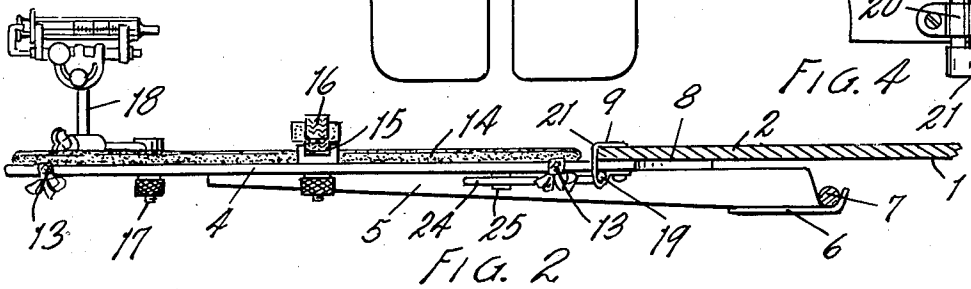


FIG. 2

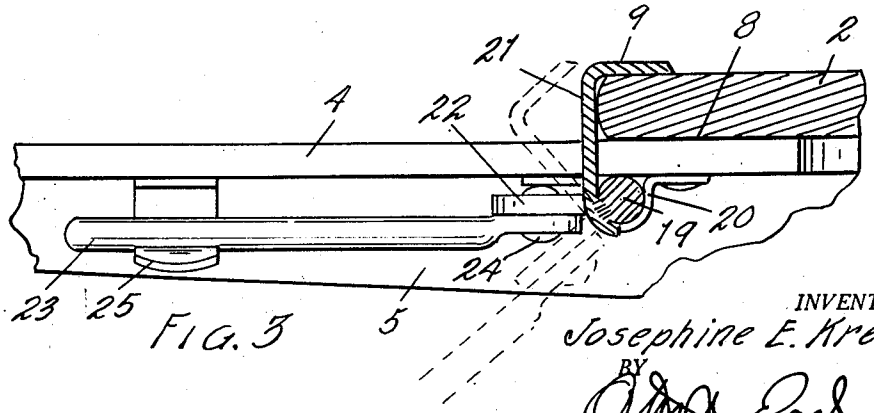


FIG. 3

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ARMREST ATTACHMENT FOR SURGICAL TABLES

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4 Claims. (Cl. 311—10)

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This invention relates to improvements in an arm rest attachment for surgical tables.

The principal objects of this invention are:

First, to provide an arm rest which is easily mountable on the side of a surgical table to project at right angles therefrom and at various positions therealong.

Second, to provide a removable arm rest for surgical tables, which rest is adapted to carry restraining straps and surgical applicances cooperative with the arm of a patient on the table.

Third, to provide an easily mounted and demounted arm rest with a removable pad and restraining band that can be removed from the rest for laundering.

Other objects and advantages relating to details of my arm rest will be apparent from a consideration of the following description and claims.

The drawings, of which there is one sheet, illustrate a preferred form of the arm rest.

Fig. 1 is a plan view partially broken away of a surgical table of the orthopedic fracture type with two of my arm rests operatively mounted thereon.

Fig. 2 is a side elevational view of the arm rest as mounted on the table, the table being shown in cross section.

Fig. 3 is a fragmentary enlarged cross sectional view through the clamp for attaching the arm rest taken along the plane of the line 3—3 in Fig. 1.

Fig. 4 is an enlarged fragmentary bottom plan view of the clamp mechanism on the arm rest.

Certain surgical operations require that the arm or arms of a patient shall be extended and supported at right angles from the side of the patient and the table on which the body of the patient is supported. My arm rest provides the necessary support for the arm in such situations and further provides means for restraining the arm and supporting surgical accessories such as intravenous syringe holders alongside of the arm. In the drawings I have generally indicated an orthopedic fracture table 1 having an upper panel 2 for supporting the head and shoulders of a patient. Two of my arm rests 3—3 are illustrated as projecting from opposite sides of the upper panel 2. The arm rests are identical and a description of one will be sufficient to indicate the features of my invention.

The arm rest consists of a supporting panel 4 which is slightly longer and approximately twice as wide as the human arm. The under side of the board 4 is longitudinally stiffened by a rib or brace 5 secured to the center of the under side of the board and projecting inwardly therefrom. The inner end of the brace 5 is provided with an upwardly opening hook 6 to engage a fixed projection on the under side of the panel 2 of the

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table. In the present instance, the projection on the table consists of a longitudinally extending rod 7, but other projections having laterally facing surfaces can be employed.

The inner end of the arm rest is lapped against the under side of the panel 2 as at 8 and clamp structure indicated generally at 9 is operative to clamp the rest to the top panel. Outwardly of the clamp 9 the arm rest is longitudinally slotted as at 10 and 11 and the rest is further apertured at its corners as at 12 to receive the tie straps 13 for securing a pad 14 on top of the rest. The inner slot 10 is arranged to adjustably receive the ends of a restraining strap 15, the strap being provided with a releasable loop 16 of fabric for holding a patient's arm on the pad 14. The outer slot 11 is arranged to adjustably receive the mounting bolt 17 of a surgical accessory such as the intravenous syringe holder 18. The clamp structure 9 is most clearly illustrated in Figs. 3 and 4 and consists of a rockshaft 19 pivotally supported in the U-shaped brackets 20. The shaft 19 projects beyond the side edges of the board 4 and is provided with two angle shaped clamps 21 which rotate with the shaft 19 to overlap and grip the top of the upper panel 2. The shaft 19 is provided intermediate of its ends with a radially projecting ear 22 to which the clamp lever 23 is pivotally mounted as at 24. A holding clip 25 is secured to the under side of the board 4 and arranged to receive the swinging end of the lever 23 as the lever is rotated to locking position. Thus the shaft 19 and clamps 21 may be angularly rotated to grip the table by swinging of the handle 23 in a radial plane of the shaft 19. The arm rest and clamp may be secured in fixed position by rotating the clamp bar 23 about the pin 24 as an axis. The swinging end of the clamp bar is thus brought into locking engagement with the bracket 23.

I have thus described a highly satisfactory form of my arm rest and it will be understood that various details of the rest and clamp may be slightly changed or modified to adapt the rest to different types of operating tables without departing from the theory and spirit of my invention as set forth in the following claims.

Having thus described my invention, what I claim as new and desire to secure by Letters Patent is:

1. An arm rest for a surgical table comprising, an elongated board adapted to be lapped at its inner end on the under side of the table, a reinforcing rib extending normally from the under side of said board and projecting inwardly beyond the inner end thereof, the inner end of said rib having an upwardly opening hook thereon engageable with a projection on the under side of said table, the longitudinal side portions of said board having apertures therein adapted

to receive connecting and securing elements of a pad, restraining band and surgical accessories, a tilt shaft rotatably supported on the under side of said board and adapted to be located underneath the side edge of said table, angle shaped clamps carried on the ends of said shaft at each side of said board and swingable with said shaft into hooked engagement over the top of said table, an ear projecting radially from said shaft, a clamp lever having its inner end pivotally secured to said ear along an axis transverse to said shaft, and a retaining clip secured to the under side of said board and having an angled end facing the side of said board to retainingly engage the swinging end of said lever when said lever and shaft are rotated to table clamping position and when said lever is rotated around its pivot into engagement with said clip.

2. An arm rest for a surgical table comprising, an elongated board adapted to be lapped at its inner end on the under side of the table, the inner end of said board having a vertically opening hook thereon engageable with a fixed portion of the under side of said table, the longitudinal side portions of said board having apertures therein adapted to receive connecting and securing elements of a restraining band and surgical accessories, a tilt shaft rotatably supported on said board and adapted to be located underneath the side edge of said table, angle shaped clamps carried on the ends of said shaft at each side of said board and swingable with said shaft into hooked engagement over the top of said table, an ear projecting radially from said shaft, a clamp lever having its inner end pivotally secured to said ear along an axis transverse to said shaft, and a retaining surface on the bottom of said board and spaced below the under side thereof adapted to retainingly engage the swinging end of said lever when said lever and shaft are rotated to table clamping position and when said lever is rotated around its pivot into engagement with said retaining surface.

3. An arm rest for a surgical table comprising, an elongated board adapted to be lapped at its inner end on the under side of the table, a reinforcing rib secured to the under side of said board and projecting inwardly beyond the inner

end thereof, the inner end of said rib having a hook thereon engageable with a fixed portion of the under side of said table, a tilt shaft rotatably supported on said board and adapted to be located underneath the side edge of said table, angle shaped clamps carried on the ends of said shaft and swingable with said shaft into hooked engagement over the top of said table, an ear projecting radially from said shaft, a clamp lever having its inner end pivotally secured to said ear along an axis transverse to said shaft, and a laterally facing hook surface on the under side of said board and adapted to retainingly engage the swinging end of said lever when said lever and shaft are rotated to table clamping position and when said lever is rotated around its pivot into engagement with said hook surface.

4. An arm rest for a surgical table comprising, an elongated board adapted to be lapped at its inner end on the under side of the table, a reinforcing rib secured to the under side of said board and projecting inwardly beyond the inner end thereof, the inner end of said rib being engageable with a fixed portion of the under side of said table, a tilt shaft rotatably supported on said board and adapted to be located underneath the side edge of said table, angle shaped clamps carried on the ends of said shaft and swingable with said shaft into hooked engagement over the top of said table, an ear projecting radially from said shaft, a clamp lever having its inner end pivotally secured to said ear along an axis transverse to said shaft, and a laterally facing hook surface on the under side of said board and adapted to retainingly engage the swinging end of said lever when said lever and shaft are rotated to table clamping position and when said lever is rotated around its pivot into engagement with said hook surface.

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