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Remarks:

Le demandeur a ultérieurement déposé une liste
des séquences et déclaré, que cette liste ne
comporte aucun élément nouveau.

(54) **Adjustable support for stretchers**

(57) A polypositionable support applicable as clinical use stretcher, consisting of a tabular body (6) fitted with an integral polyurethane foam covering on its sharp cants, stringers constituting two conventional folding devices being articulated at the upper tabular body (6),

these folding devices being mobilized by means of pneumatic cylinders (3) and (3'), being articulated at the lower zone by means their fixing to the stringers, having horizontal sliders (4) and driving pedals of the pneumatic pistons.

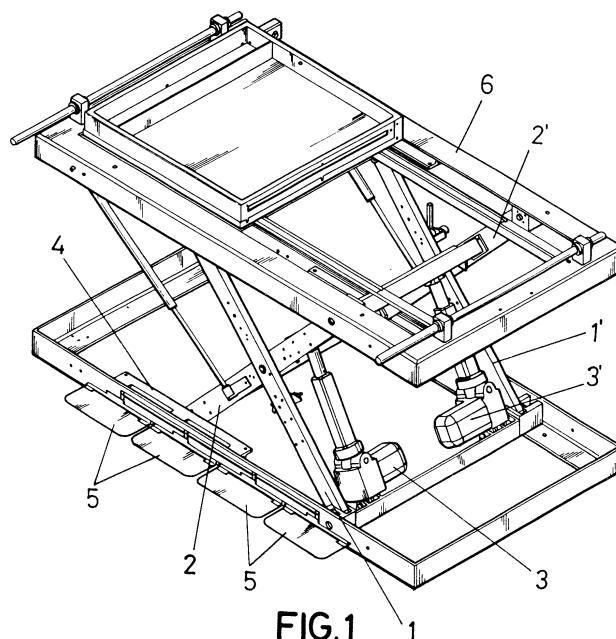


FIG.1

Description

BACKGROUND OF THE INVENTION

[0001] The present specification relates to an application for a Model of Utility, referring to a polypositionable support applicable as clinical use stretcher, the evident utility of which is to be configured as a mechanical assembly, aided by pneumatic pistons, capable of placing a support applicable as a stretcher in a determined height, acting on driving pedals and the assembly presenting adequate shelters and protections in order to avoid accidents derived from the insertion, on the part of users of the invention, of limbs into its movable parts.

FIELD OF THE INVENTION

[0002] This invention will find application in the industry dedicated to the manufacture of elements, devices and systems applicable to the public health; in a most concrete way, in the industry dedicated to the manufacture of stretcher-tables.

RELATED ART

[0003] It is known the existence of a plurality of stretcher-tables in which the horizontal surface can be placed at a determined height by the actuation of certain mechanical devices.

[0004] Specifically, stretcher tables are known in which the lifting is performed by means of a worm gear which, manually or mechanically operated, meshes with a slider associated with a folding device, lifting said horizontal surface.

[0005] Also, the applicant is aware of the existence of - stretcher-tables in which a folding device supporting the horizontal surface is driven by means of hydraulic or pneumatic pistons, horizontally arranged, and the driving of which on the lower part of the folding device stringers, or on its related crosspieces, generates a lifting or descending motion of said horizontal surface.

[0006] The folding device is constituted starting from two parallel folding sets formed by two stringers centrally articulated, one of their lower ends being securely fixed to the infradjacent surface, while the other end can freely slide on same.

[0007] The upper ends of the two stringers and their symmetrical ones are articulated at the horizontal surface where the patients rest, this surface being capable of being lifted or descended by means of the linear displacement of the lower free end of the folding device through a mechanical, hydraulic or pneumatic actuator.

[0008] The above arrangement, wherein the hydraulic or pneumatic actuators are horizontally located, operating between the lower ends of the folding devices, presents some operating deficiencies derived from their position with regard the folding device, it being desirable their possible elimination by means of a new arrange-

ment or the incorporation of accessory elements.

[0009] The applicant is not aware of the existence of stretcher-tables presenting the mentioned advantages.

5 SUMMARY OF THE INVENTION

[0010] The polypositionable support applicable as clinical use stratcher as proposed by the invention, constitutes an evident novelty in its field of application, since it is capable of reducing the presence of deficiencies derived from the horizontal arrangement of hydraulic or pneumatic actuators in folding devices.

[0011] Specifically, the invention is constituted starting from two folding devices of conventional type, located in a parallel way, on which two pneumatic pistons act, which are articulated in the lower ends of a stationary stringer, and the upper end of which is articulated at a determined point of the upper half of the stringer the lower end of which freely slides over said horizontal plane through the ends of the stringers.

[0012] In this way, the pneumatic cylinders act vertically, eliminating the deficiencies presented in their operation by those horizontally located.

[0013] Said pistons can be operated by means of acting pedal located at a side of the invention, there being three of them which allow them to be differentially - operated at will.

[0014] The invention also presents a perimetric flap at the horizontal surface impeding the user's limbs to be introduced, so eliminating the risk of being intercepted by the movable elements of the invention.

[0015] In the same way, the lower face of the horizontal surface is shown flat, redounding to the characteristic stated in the preceding paragraph.

[0016] In order to increase the comfort offered by the stretcher-table and reduce the possibility of the patients to be hurt, the sharp cants of the horizontal surface have an integral polyurethane foam covering, incorporating also a profile located at the minor sides of same, the function of which is identical to that of the previously described elements.

DESCRIPTION OF THE DRAWINGS

[0017] In order to complement this description and aid to a better understanding of the characteristics of the invention, the appending two sheets of drawings, which are a part of this specification, show, by way of illustrative and non-limiting example, the following:

[0018] Figure 1 shows a general isometrical view of the invention relative to a polypositionable support applicable as clinical use stretcher, showing a general arrangement of its constituent elements.

[0019] Figure 2 represents a view also isometrical of the invention when it is fully folded.

[0020] Figure 3 represents an elevational view of the invention when it is fully folded.

[0021] Figure 4 shows a view of a longitudinal section

of the invention when it is fully folded.

DESCRIPTION OF THE PREFERRED EMBODIMENT OF THE INVENTION

[0022] From these figures, it can be seen that the polypositionable support applicable as clinical use stretcher as proposed by the invention, is constituted starting from a upper tabular body (6), wherein the mobilization elements of same are arranged in the horizontal plane defined by it, presenting an integral polyurethane form covering at it sharp cants, and having stringers (1), (2), (1') and (2') constituting two conventional folding devices, operated by means of pneumatic cylinders (3) and (3'), articulated, at their lower part, at the proximities of the lower stationary end of the stringers (1) and (1'), presenting also an articulation at its upper end at the upper half of stringers (2) and (2'), which lower end can freely slide over horizontal sliders (4), where driving pedals (5) of the pneumatic pistons (3) and (3') are situated.

[0023] It should be pointed out that the vertical gas actuators or shock absorbers are located in a totally different way from those used at present, which are positioned in a horizontal sense, the invention presenting driving pedals located in agreement with the two major sides of the invention.

[0024] The board of the support applicable as a stretcher is fully flat at the lower part, which means to eliminate accident risks, a perimetric screen being foreseen along the board in order to eliminate possible lateral holes which could exist under same.

[0025] It is not considered necessary to extend this description for any expert in the art to understand the scope of the invention and the advantages derived from it.

[0026] The materials, shape, size and arrangements of its components will be open to variation, provided that it does not imply any alteration to the essence of the invention.

[0027] The terms under which this specification has been described should be always taken in an ample and non-limiting sense.

(1) and (1'), presenting also an articulation of its upper end at the upper half of stringers (2) and (2'), the lower end of which can freely slides over horizontal sliders (4), where driving pedals (5) of the pneumatic pistons (3) and (3') are situated.

2. A polypositionable support applicable as clinical use stretcher, according to claim 1, characterized in that it incorporates vertical gas actuators or shock absorbers, having driving pedals located at the two major sides of the support applicable as a table.
3. A polypositionable support applicable as clinical use stretcher, according to claims 1 and 2, characterized in that the board of the support applicable as a stretcher is totally flat at its lower part, having a perimetric screen along the board.

Claims

1. A polypositionable support applicable as clinical use stretcher, constituted starting from a upper tabular body (6) where the mobilization elements thereof are located at the horizontal plane defined by it, characterized in that it presents an integral polyurethane foam covering on its sharp cants, and having stringers (1), (2), (1') and (2') articulated, constituting two folding devices of conventional type, driven by means of pneumatic cylinders (3) and (3'), articulated, at their lower part, at the proximities of the lower stationary end of the stringers

