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(54) Bed assembly to lift up a lying patient at an adjustable height and position

(57) The bed assembly consists of a lifting apparatus set on tracks of a plane support where the patient can be positioned, such a support can be rapidly actuated by assembling three plane modular system where the first modular structure (1) operates as a modular stabilizing structure of a second counterposed couple of modular structure (2) which act as upright parts. To assemble the equipment, placed transversally on the floor under the bed the modular stabilizing structure (1) its corresponding clutching means (3) is to be inserted into the locking receptacles (4) of the upright modular structure (2) thus obtaining a U-shaped frame integrated structure fitted onto two couples of pivoting wheels (5) featured on the upright modular structures. In this way the lifting apparatus is placed in a condition interacting with the bed that, acting as a guideline between the end limits formed by the bedhead and foot of the bed, limits the apparatus movement to the only longitudinal translation so to place it either in a central position to suit bedside procedures when needed, or in a different position against the foot of the bed when no special treatment are needed. Inside the upper walls of the assembled upright modular structures (2), two couples of worm screw devices are provided for bearing and moving up and down two couples of holding hocks (6), going out from two counterposed vertical clefts (7), on which a plane lying support is to be set up by means of the application of its protruding eyelets (8). To carry out the up and down movement the shaft (9) is set in rotation, thus causing the vertical translation of the

coaxial bodies (16) with inside threading engaged onto the guidelines (15) for the folding effect caused by clefts (7).

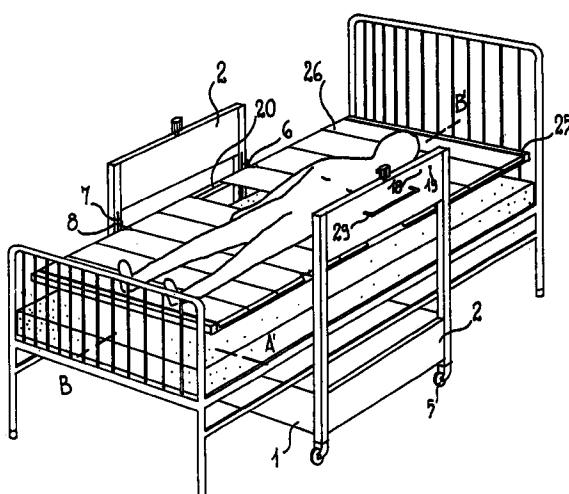


FIG.15



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EUROPEAN SEARCH REPORT

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DOCUMENTS CONSIDERED TO BE RELEVANT			CLASSIFICATION OF THE APPLICATION (Int.Cl.6)
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	
A	GB 114 753 A (LETHBRIDGE) 9 May 1918 * page 2, line 17 - line 34; figures * ---	1, 4	A61G7/10
A	US 2 429 865 A (BRESCH) 28 October 1947 * the whole document * ---	1, 5	
A	DE 114 697 C (BENSCH) 3 November 1900 * the whole document * ---	1	
A	CH 275 010 A (CHEVAUX) * page 1, line 30 - page 2, line 10; figures 1,2 * ---	1	
A	US 3 373 454 A (CURTIS DAVID T) 19 March 1968 * column 3, line 11 - column 5, line 47; figures 1,3 * -----	4, 5	
			TECHNICAL FIELDS SEARCHED (Int.Cl.6)
			A61G
<p>The present search report has been drawn up for all claims</p>			
Place of search	Date of completion of the search		Examiner
THE HAGUE	31 August 1998		Baert, F
CATEGORY OF CITED DOCUMENTS			
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	