

12

EUROPEAN PATENT APPLICATION

21 Application number: **85111455.3**

51 Int. Cl.⁴: **A 61 G 7/10, B 66 F 17/00**

22 Date of filing: **11.09.85**

30 Priority: **26.04.85 SE 8502026**

71 Applicant: **ARJO HOSPITAL EQUIPMENT AB, Box 61, S-241 00 Eslöv (SE)**

43 Date of publication of application: **29.10.86**
Bulletin 86/44

72 Inventor: **Sonesson, Lelf Bertil, Sankt Mikael's Väg 4, S-241 00 Eslöv (SE)**
 Inventor: **Sandell, Anders Lennart, Gränskatan 19, S-261 51 Landskrona (SE)**

84 Designated Contracting States: **AT BE CH DE FR GB IT LI LU NL SE**

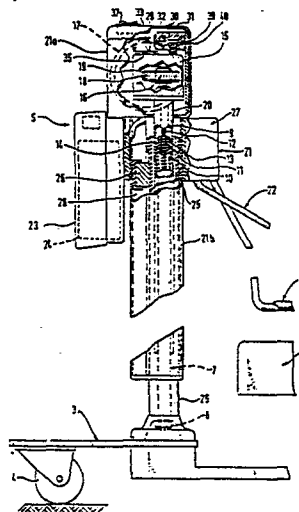
88 Date of deferred publication of search report: **02.12.87 Bulletin 87/49**

74 Representative: **Rostovanyi, Peter et al, AWAPATENT AB Box 5117, S-200 71 Malmö (SE)**

54 **Device for interrupting lowering movements of motor-driven hoisting gears at patient-lifting units.**

57 The present invention relates to a device for interrupting lowering movements of motor-driven hoisting gears at patient-lifting units, whereby the hoisting gear (5) comprises an anchoring member (7) through which the hoisting gear is fixed onto a frame (3) or similar, and a displacement member (9) which is connected to the anchoring member and raisable and lowerable in relation thereto by means of a motor (17), whereby sitting and/or lying means (6) for patients is mounted on the displacement member through a bracket (21). In order to eliminate the risk of patients being caught between the sitting and/or lying means and an obstacle, e.g. a bed, and prevent the patient-lifting unit from being lifted from the floor and/or tipping because the sitting and/or lying means proceeds downwards after bumping into the obstacle, e.g. the bed, the bracket (21) is journaled on the displacement member (9) through a device (30, 32) permitting relative movements between said bracket and displacement member such that the displacement member, during lowering thereof by means of the motor (17) may proceed some distance further downwards after the sitting and/or lying means (6) has run into an obstacle (2), whereby sensing and control means (33) is provided to sense the change of position occurring between the displacement member and bracket when the displacement member proceeds further downwards while the bracket is prevented therefrom by the

sitting and/or lying means bumping into said obstacle and whereby the sensing and control means is provided to control the motor to stop in dependence of said change of position and thereby interrupt continued downward movement of the displacement member.





European Patent
Office

EUROPEAN SEARCH REPORT

0198946

Application number

EP 85 11 1455

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl. 4)
A	US-A-2 483 894 (A.H. FEIBEL) * Column 3, line 47 - column 4, line 25; figures 1-11 *	1	A 61 G 7/10 B 66 F 17/00
A	US-A-2 688 410 (G.B. NELSON) * Column 3, line 31 - column 5, line 16; figures 1-5 *	1	
A	US-A-2 891 256 (V. SCULLY) * Column 2, line 41 - column 3, line 11; figures 1-5 *	1	
A	US-A-4 176 826 (D.A. GRAY et al.) * Column 3, line 53 - column 5, line 8; figures 1-4 *	1	
			TECHNICAL FIELDS SEARCHED (Int. Cl. 4)
			A 61 G B 66 F
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 23-09-1987	Examiner MAROSCIA
<p>CATEGORY OF CITED DOCUMENTS</p> <p>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</p> <p>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</p>			