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SC 29492 (US).
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(54) Title: RESILIENT SIDE RAILS FOR MEDICAL TABLES

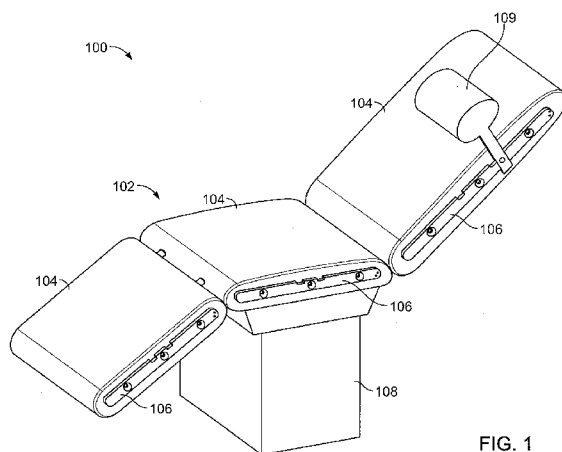


FIG. 1

(57) Abstract: This disclosure relates to resilient side rails for medical tables. In some aspects, a side rail for (106) a medical table (100) includes an elongated body (110) having a height (113) of about 25 mm to 30 mm, more particularly of 28,6 mm and a width (111) of about 8 mm to 10 mm, more particularly of 9,5 mm, that are configured to be received by a medical accessory (109). The elongated body (110) is formed of a material having a modulus of elasticity that is about 50 gigapascals to about 150 gigapascals and a yield strength that is about 40 x 10⁷ pascals to about 120 x 10⁷ pascals, wherein when the side rail (106) is supported along a first, wide side by two support members (204) that are about 300 mm apart and a 500 newton force is applied midway between the support members (204) to a second, opposite side of the side rail (106), a maximum deflection of in the side rail (106) is less than about 5 mm, and when the force is released, the side rail (106) rebounds and substantially no permanent deformation of the side rail (106) occurs.



INTERNATIONAL SEARCH REPORT

International application No PCT/IB2013/000967

A. CLASSIFICATION OF SUBJECT MATTER
 INV. A61G13/10
 ADD.

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
 A61G

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
 EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2010/293719 A1 (KLEMM KURT W [US] ET AL) 25 November 2010 (2010-11-25)	1-7, 11-19, 23-29
Y	paragraph [0037] - paragraph [0038]; figures 1-8	8-10, 20-22
X	----- US 2008/034502 A1 (COPELAND JOHN ROBERT [AU] ET AL) 14 February 2008 (2008-02-14) paragraphs [0015], [0026]; figures 1-4	1-7, 11-19, 23-29
X	----- EP 1 295 583 A2 (HILL ROM CO INC [US] HILL ROM SERVICES INC [US]) 26 March 2003 (2003-03-26) paragraphs [0017], [0019]; figures 1-4 ----- -/--	1-5,11, 13-17, 23,25-28

Further documents are listed in the continuation of Box C. See patent family annex.

* Special categories of cited documents :

<p>"A" document defining the general state of the art which is not considered to be of particular relevance</p> <p>"E" earlier application or patent but published on or after the international filing date</p> <p>"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)</p> <p>"O" document referring to an oral disclosure, use, exhibition or other means</p> <p>"P" document published prior to the international filing date but later than the priority date claimed</p>	<p>"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</p> <p>"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</p> <p>"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art</p> <p>"&" document member of the same patent family</p>
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Date of the actual completion of the international search 19 September 2013	Date of mailing of the international search report 06/02/2014
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Name and mailing address of the ISA/ European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Fax: (+31-70) 340-3016	Authorized officer <p style="text-align: center; font-size: 1.2em;">Sommer, Jean</p>
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INTERNATIONAL SEARCH REPORT

International application No PCT/IB2013/000967

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	<p>"Engineering Properties of Electroless Nickel Coatings.pdf",</p> <p>19 May 1983 (1983-05-19), XP055079922, Retrieved from the Internet: URL:http://www.techmetals.com/InternetArticles/Engineering%20Properties%20of%20EN%20Coatings.pdf [retrieved on 2013-09-18] the whole document</p> <p align="center">-----</p>	8-10, 20-22

INTERNATIONAL SEARCH REPORT

International application No.
PCT/IB2013/000967

Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

2. Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:

3. Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.

2. As all searchable claims could be searched without effort justifying an additional fees, this Authority did not invite payment of additional fees.

3. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:

4. No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

1-29

Remark on Protest

- The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.
- The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.
- No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-29

A side rail of a medical table having an elongated body with particular dimensions.

2. claims: 30-37

A force absorbing member for coupling a side rail to a medical table.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No PCT/IB2013/000967

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2010293719	A1	25-11-2010	NONE
US 2008034502	A1	14-02-2008	CN 1984628 A 20-06-2007
			EP 1744716 A1 24-01-2007
			US 2008034502 A1 14-02-2008
			WO 2005107676 A1 17-11-2005
EP 1295583	A2	26-03-2003	AT 256986 T 15-01-2004
			AT 293421 T 15-05-2005
			DE 69727080 D1 05-02-2004
			DE 69727080 T2 09-06-2004
			DE 69733095 D1 25-05-2005
			DE 69733095 T2 01-09-2005
			EP 0971614 A1 19-01-2000
			EP 1295583 A2 26-03-2003
			WO 9817153 A1 30-04-1998