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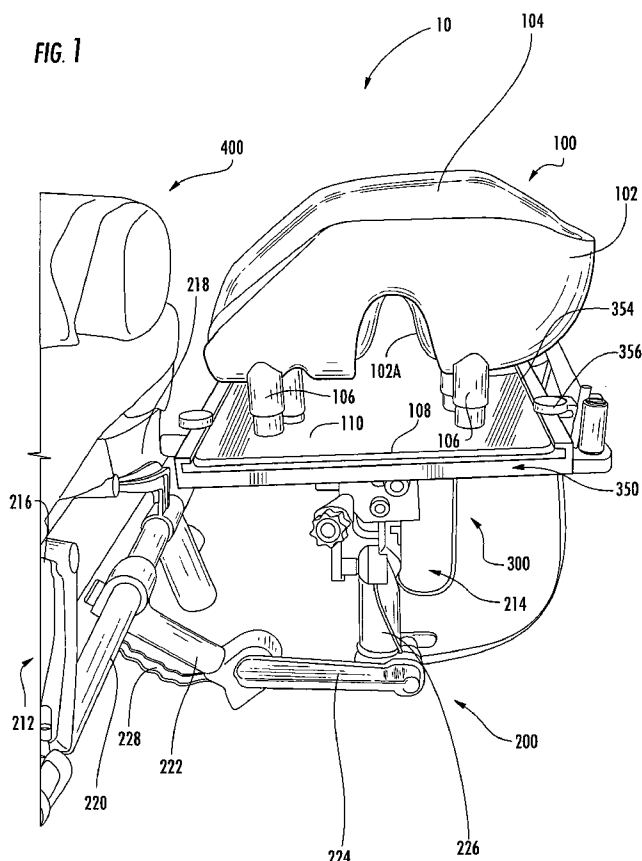
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[Continued on next page]

(54) Title: SURGICAL HEAD SUPPORT SYSTEM



(57) Abstract: A planar support assembly for use with a patient body support, an extension support assembly, and a plurality of interchangeable head supports is provided. The extension support assembly is releasably mounted on a portion of the patient body support such that the extension support assembly extends outwardly from the patient body support. The planar support assembly includes a generally planar support configured to releasably attach to an end of the extension support assembly opposite the patient body support. The planar support is configured to receive and support one of a plurality of interchangeable head supports, and the planar support is adjustable with respect to the patient body support in two or more dimensions.

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**A. CLASSIFICATION OF SUBJECT MATTER***A61B 19/00(2006.01)i*

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)

IPC 8: A61B, A61F, A61G

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

Korean Utility models and applications for Utility models since 1975

Japanese Utility models and applications for Utility models since 1975

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

eKIPASS(KIPO Internal) "head", "support", "surgery", "adjustable", "extension"

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 2006-110671 A2 (SKRIPPS, THOMAS K.) 19 October 2006 See claims 1 and 17, page 8, lines 6-18, figures 1 and 2	1-38
A	WO 2005-032416 A2 (DUPACO INC.) 14 April 2005 See claim 1, page 5, lines 10-31, figures 1-3	1-38
A	US 5623949 A (JEFFREY V. KOSTICH) 29 April 1997 See claim 3, column 1, line 65 - column 2, line 25, figures 1-3	1-38
A	US 4504050 A (DENNIS R. S. OSHORNE) 12 March 1985 See claims 1-9, abstract, figures 1-3	1-38
A	WO 02-26188 A1 (HUNTLEIGH TECHNOLOGY PLC) 4 April 2002 See claims 1-8, abstract, figures 1-3	1-38

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

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"&amp;" document member of the same patent family

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**INTERNATIONAL SEARCH REPORT**

Information on patent family members

International application No.

**PCT/US2008/008960**

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 2006-110671 A2	19.10.2006	None	
WO 2005-032416 A2	14.04.2005	US 2005-0066444 A1	31.03.2005
US 5623949 A	29.04.1997	None	
US 4504050 A	12.03.1985	None	
WO 02-26188 A1	04.04.2002	AU 9009601 A CA 2390038 A1 CN 1392792 A EP 1320350 A1 GB 2367238 A JP 2004-509703 A NZ 518913 A TW 504383 B US 2003-0051293 A1 ZA 200203571 A	08.04.2002 04.04.2002 22.01.2003 25.06.2003 03.04.2002 02.04.2004 27.02.2004 01.10.2002 20.03.2003 06.05.2003