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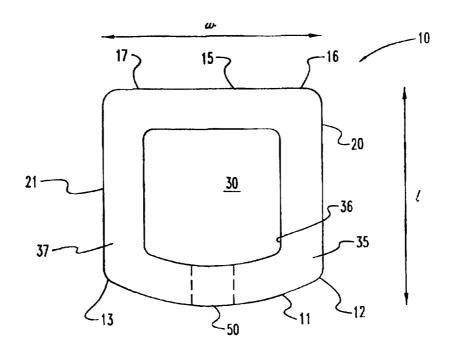
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(54) Title: INTERVERTEBRAL SPACERS



(57) Abstract

One embodiment of a hollow spinal spacer (10) includes a curved anterior wall (11) having opposite ends (12, 13), a posterior wall (15) having opposite ends (16, 17), two lateral walls (20, 21), each integrally connected between the opposite ends (12, 13, 16, 17) of the anterior (11) and posterior (15) walls to define a chamber (30). The walls (11, 15, 20, 21) include a superior face (35) and an inferior face (40). The superior face (35) defines a first opening (36) in communication with the chamber (30) and includes a first vertebral engaging surface (37). The inferior face (40) defines a second opening (41) in communication with the chamber (30) and includes a second vertebral engaging surface (42).

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A. CLASSIFICATION OF SUBJECT MATTER IPC 6 A61F2/44

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) $IPC \ 6 \ A61F$

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 practical, search terms used)

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X Y	WO 95 08306 A (SYNTHES AG) 30 March 1995 see page 8, line 22 - page 10, line 3	1-5 6-14, 17-20,22
	see page 4, line 4 - line 5 see claim 40 see figures 3,4,16	
Y	WO 94 26893 A (GENETICS INSTITUTE, INC.) 24 November 1994 cited in the application see page 1, line 16 - line 28 see page 13, line 2 - line 20	6-14, 17-20,22
A	FR 2 710 519 A (ROBINE ET AL) 7 April 1995 see abstract; figures	1
A	US 5 397 364 A (KOZAK ET AL) 14 March 1995 see the whole document	23,36
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Further documents are listed in the continuation of box C.	Patent family members are listed in annex.		
'Special categories of cited documents: 'A' document defining the general state of the art which is not considered to be of particular relevance 'E' earlier document but published on or after the international filing date '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) 'O' document referring to an oral disclosure, use, exhibition or other means 'P' document published prior to the international filing date but later than the priority date claimed	"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 "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 "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. "&" document member of the same patent family		
Date of the actual completion of the international search 16 May 1997	Date of mailing of the international search report 2 6. 06, 97		
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentiaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax (+31-70) 340-3016	Authorized officer Smith, C		

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT				
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.		
A	US 4 834 757 A (BRANTIGAN) 30 May 1989 see column 6, line 40 - column 7, line 26; figures 7,8	42		
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ernational application No.

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Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first skeet)
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:
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 II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows:
 Claims: 1-22 A hollow spinal spacer containing material to promote bone growth. Claims: 23-42 A hollow spinal spacer having lateral and anterior surfaces corresponding to the shape of a vertebral end plate. Claims: 42-48 A hollow spinal spacer with lateral wings. Claims: 49-57 A hollow spinal spacer with cutting blades.
1. X 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 fee, this Authority did not invite payment of any additional fee.
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.:
Remark on Protest The additional search fees were accompanied by the applicant's protest. X No protest accompanied the payment of additional search fees.

information on patent family members

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