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(71) Applicant (for all designated States except US): MEDTRONIC VASCULAR INC. [US/US]; IP Legal Department, 3576 Unocal Place, Santa Rosa, CA 95403 (US).

(72) Inventor; and

(75) Inventor/Applicant (for US only): THORNTON, Ronan [IE/IE]; Corcullen, Co. Galway, Galway (IE).

(74) Agent: MARESH, Catherine; IP Legal Department, 3576 Unocal Place, Santa Rosa, CA 95403 (US).

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(54) Title: IMPLANTABLE MEDICAL DEVICES AND METHODS FOR MAKING THE SAME

(57) Abstract: Disclosed herein are polymeric implantable medical devices and methods for making the same. Specifically, disclosed are polymeric implantable medical devices produced through the use of solvent casting methods.

INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER INV. A61L31/04 A61L31/06

A61L31/14

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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)

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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)

EPO-Internal, WPI Data, PAJ

C. DOCUM	ENTS CONSIDERED TO BE RELEVANT	<u> </u>
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4 888 176 A (LANGER ROBERT S [US] ET AL) 19 December 1989 (1989-12-19) column 4, line 60 - column 5, line 11 column 12, line 51 - line 66 column 13, line 12 - line 51	1-14,17
X	US 2005/021131 A1 (VENKATRAMAN SUBRAMANIAN [SG] ET AL) 27 January 2005 (2005-01-27) cited in the application page 3, paragraph 44 page 4, paragraphs 52-54,61 page 5, paragraph 70 page 7, paragraph 92 examples 1,2	10-19
X	WO 89/05138 A (CHASIN MARK [US]) 15 June 1989 (1989-06-15) page 7, line 24 - page 8, line 9	10-17

X Further documents are listed in the continuation of Box C.	X See patent family 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 			
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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, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer Dudás, Eszter			

INTERNATIONAL SEARCH REPORT

International application No
PCT/US2007/071136

Category*	Citation of document, with indication, where appropriate, of the relevant passages	priate, of the relevant passages Relevant to claim No.		
E	EP 1 829 531 A (CORDIS CORP [US]) 5 September 2007 (2007-09-05) page 5, paragraph 38 page 9, paragraph 67 - paragraph 74	1-19		
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INTERNATIONAL SEARCH REPORT

information on patent family members

International application No
PCT/US2007/071136

Patent document cited in search report		Publication date	Patent family member(s)		Publication date
US 4888176	Α .	19-12-1989	NONE		- -
US 2005021131	A1	27-01-2005	NONE		
WO 8905138	Α	15-06-1989	AU	2902289 A	05-07-1989
EP 1829531	Α .	05-09-2007	CA JP US	2572106 A1 2007190378 A 2007154512 A1	29-06-2007 02-08-2007 05-07-2007