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(54) Title: MEDICAL DEVICES HAVING IMPROVED PERFORMANCE

(57) Abstract: According to an aspect of the present invention, medical devices are provided that contain at least one polymeric region which contains (a) at least one block copolymer that contains at least three polymer blocks that differ from one another and (b) at least one therapeutic agent.



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A. CLASSIFICATION OF SUBJECT MATTER		
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B. FIELDS SEARCHED		
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Electronic data base consulted during the international search (name of data base and, where practical, 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 2006/013849 A1 (STRICKLER FREDERICK H [US] ET AL) 19 January 2006 (2006-01-19) page 4, paragraph 41-43 page 6, paragraphs 62,63 page 10, paragraphs 87,88 claims 1-19	1-36
A	US 2005/215722 A1 (PINCHUNK LEONARD [US] ET AL) 29 September 2005 (2005-09-29) page 1, paragraph 5-9 page 10, paragraph 213 - page 11, paragraph 220 claims 1-51	1-36
A	US 2006/111485 A1 (LAGHI ALDO A [US]) 25 May 2006 (2006-05-25) page 1, paragraphs 10,11 claims 29-41	1-36
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<input checked="" type="checkbox"/>	Further documents are listed in the continuation of Box C.	<input checked="" type="checkbox"/> See patent family annex.
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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	WO 01/19920 A (PROCTER & GAMBLE [US]) 22 March 2001 (2001-03-22) page 14, line 6 - page 15, line 17 page 16, lines 23-34 claims 1-3,7	1-36

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/US2007/013051

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2006013849	A1	19-01-2006 CA 2574396 A1	09-02-2006
		EP 1781348 A2	09-05-2007
		JP 2008506504 T	06-03-2008
		WO 2006014607 A2	09-02-2006
US 2005215722	A1	29-09-2005	NONE
US 2006111485	A1	25-05-2006	NONE
WO 0119920	A	22-03-2001 AT 310050 T	15-12-2005
		AU 7371200 A	17-04-2001
		BR 0014008 A	21-05-2002
		CA 2384434 A1	22-03-2001
		CN 1379799 A	13-11-2002
		CZ 20020949 A3	14-08-2002
		DE 60024126 D1	22-12-2005
		DE 60024126 T2	27-07-2006
		EG 22776 A	31-08-2003
		EP 1226214 A1	31-07-2002
		ES 2252059 T3	16-05-2006
		HK 1047443 A1	28-07-2006
		HU 0202695 A2	28-12-2002
		JP 2003509565 T	11-03-2003
		MX PA02002512 A	30-07-2002
		TR 200200679 T2	21-06-2002
		US 2002001707 A1	03-01-2002
ZA 200201711 A	28-05-2003		