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(71) Applicant (for all designated States except US):
STRYKER TRAUMA GMBH [DEZDE]; Prof.-
Küntscher-Str. 1-5, 24232 Schönikirchen/Kiel (DE).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **PROCTER, Philip**
[FR/FR]; La Paisible, Chemin du Pre Peilloud 304,
F-01220 Divonne les Bains (FR).

(74) Agent: **SCHMITZ, Alexander**; Maiwald Patentanwalts
GmbH, Elisenhof, Elisenstrasse 3, 80335 München (DE).

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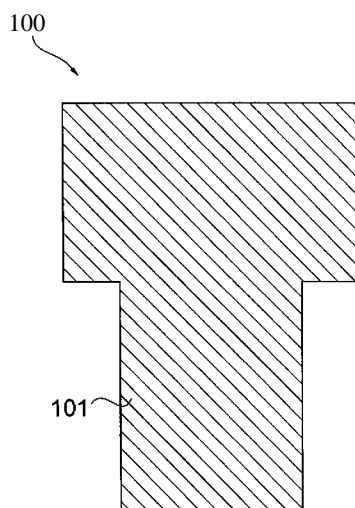


Fig. 1A

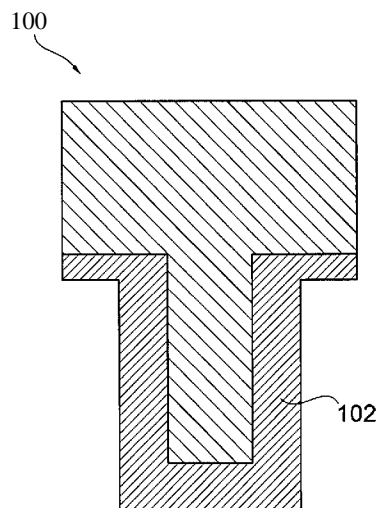


Fig. 1B

(57) Abstract: An implantation device for fixating a bone comprises a main body, wherein the main body has a peripheral region, wherein the main body comprises a polymeric material, and wherein the peripheral region comprises the polymeric material and a plasticizer. In particular, the peripheral region may be adapted to be fixed to a bone. A method for producing an implantation device comprises the steps of forming an implantation device using polymer material, and dipping at least a portion of the implantation device into a plasticizer in such a way that a peripheral region of the implantation device is plastified.

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Minimum documentation searched (classification system followed by classification symbols)

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

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C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2005/249773 A1 (MASPERO FABRIZIO A [CH] ET AL) 10 November 2005 (2005-11-10) cited in the application paragraph [0010] paragraph [0060] paragraph [0062] paragraph [0075] - paragraph [0077] figure IB	1-3,5,6, 16,17
X	US 2005/182411 A1 (DEMEO JOSEPH [US] ET AL) 18 August 2005 (2005-08-18) paragraph [0036] paragraph [0038] paragraph [0041] ----- -/-	1-5,9,10



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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

Staber, Brigitte

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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
X	US 6 548 569 B1 (WILLIAMS SIMON F [US] ET AL) 15 April 2003 (2003-04-15) column 15, line 16 - line 29 column 27, line 37 - line 46 -----	1-3,9
X	WO 98/46164 A (BOYAN BARBARA D [US]; NIEDERAUER GABRIELE [US]; KIESWETTER KRISTINE [U] 22 October 1998 (1998-10-22) page 14, line 20 - line 27 -----	1-3
A	EP 1 609 494 A (CORDIS CORP [US]) 28 December 2005 (2005-12-28) paragraph [0058] paragraph [0099] - paragraph [0100] -----	1

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/EP2008/002220

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 2005249773	A1	10-11-2005	AU 2005239825 A1	17-11-2005
			CA 2564164 A1	17-11-2005
			EP 1753474 A2	21-02-2007
			WO 2005107826 A2	17-11-2005
			JP 2007536038 T	13-12-2007
			US 2005251266 A1	10-11-2005
<hr/>				
US 2005182411	A1	18-08-2005	CA 2556516 A1	01-09-2005
			EP 1725276 A1	29-11-2006
			WO 2005079882 A1	01-09-2005
<hr/>				
us 6548569	B1	15-04-2003	US 2002156150 A1	24-10-2002
			US 2002173558 A1	21-11-2002
<hr/>				
WO 9846164	A	22-10-1998	AU 6970298 A	11-11-1998
			CA 2286074 A1	22-10-1998
			EP 1018978 A1	19-07-2000
			JP 2002508677 T	19-03-2002
			JP 2007301382 A	22-11-2007
			US 6344496 B1	05-02-2002
			US 5977204 A	02-11-1999
<hr/>				
EP 1609494	A	28-12-2005	CA 2510220 A1	21-12-2005
			JP 2006006938 A	12-01-2006
<hr/>				