

(19) World Intellectual Property Organization  
International Bureau



(43) International Publication Date  
26 August 2010 (26.08.2010)

PCT

(10) International Publication Number  
**WO 2010/096516 A3**

(51) International Patent Classification:

A61L 29/02 (2006.01) A61L 31/14 (2006.01)  
A61L 29/14 (2006.01) C22C 38/04 (2006.01)  
A61L 31/02 (2006.01) C22C 38/02 (2006.01)

(21) International Application Number:

PCT/US2010/024520

(22) International Filing Date:

18 February 2010 (18.02.2010)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

12/389,792 20 February 2009 (20.02.2009) US

(71) Applicant (for all designated States except US):

**BOSTON SCIENTIFIC SCIMED, INC.** [US/US]; One Scimed Place, Maple Grove, MN 55311-1566 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **SCHEUERMANN,**

**Torsten** [DE/DE]; Voktor-scheffel -str. 20, 80803 Munich (DE). **WEBER, Jan** [NL/NL]; Holdaal 49, NL-6228 GJ Maastricht (NL). **ALBRECHT, Peter** [DE/DE]; Thurn Und Taxis Str. 41 A, 82340 Feldafing (DE).

(74) Agents: **GAGEL, John, J.** et al.; Fish & Richardson

P.C., P.O. Box 1022, Minneapolis, MN 55440-1022 (US).

(81) Designated States (unless otherwise indicated, for every

kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PE, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every

kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

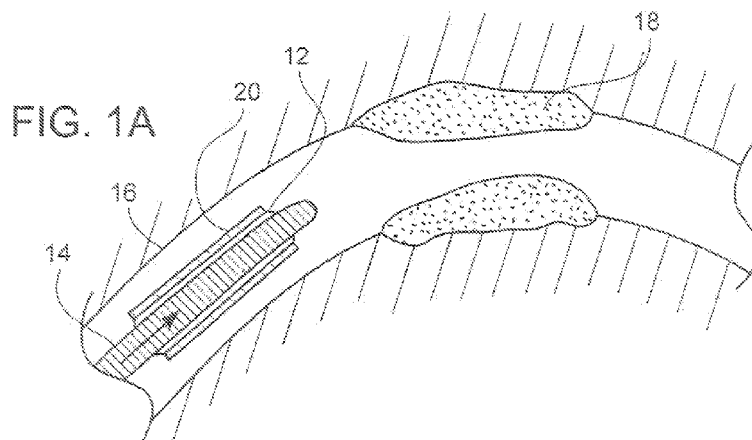
Published:

- with international search report (Art. 21(3))
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))

(88) Date of publication of the international search report:

24 February 2011

(54) Title: BIOERODIBLE ENDOPROSTHESIS



(57) Abstract: A bioerodible stent, having a composition comprising Fe, Mn, Si and C has desirable mechanical, erosion, and physiological characteristics.



WO 2010/096516 A3

## INTERNATIONAL SEARCH REPORT

International application No

PCT/US2010/024520

## A. CLASSIFICATION OF SUBJECT MATTER

INV. A61L29/02 A61L29/14 A61L31/02 A61L31/14 C22C38/04  
C22C38/02

ADD.

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)  
C22C A61L

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, CHEM ABS 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 2009/030500 A1 (WEBER JAN [NL] ET AL) 29 January 2009 (2009-01-29) paragraph [0009] paragraph [0022]; claims	1-20
A	US 2007/250155 A1 (SIMPSON JOHN A [US]) 25 October 2007 (2007-10-25) paragraph [0004] - paragraph [0007]; claims	1-20



Further documents are listed in the continuation of Box C.



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

Date of the actual completion of the international search

21 December 2010

Date of mailing of the international search report

29/12/2010

Name and mailing address of the ISA/

European Patent Office, P.B. 5818 Patentlaan 2  
 NL - 2280 HV Rijswijk  
 Tel. (+31-70) 340-2040,  
 Fax: (+31-70) 340-3016

Authorized officer

Espinosa y Carretero

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No PCT/US2010/024520
---

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
US 2009030500	A1	29-01-2009		CA 2694681 A1	05-02-2009
				CN 101820932 A	01-09-2010
				EP 2182998 A2	12-05-2010
				JP 2010534550 T	11-11-2010
				WO 2009018013 A2	05-02-2009
US 2007250155	A1	25-10-2007		WO 2007124230 A1	01-11-2007