

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
4 March 2004 (04.03.2004)

PCT

(10) International Publication Number  
**WO 2004/017892 A3**

(51) International Patent Classification<sup>7</sup>: **A61J 3/00**

SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA,  
UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(21) International Application Number:

PCT/US2003/026364

(22) International Filing Date: 22 August 2003 (22.08.2003)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

60/405,933

26 August 2002 (26.08.2002)

US

10/423,718

26 April 2003 (26.04.2003)

US

(84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

**Declaration under Rule 4.17:**

— *of inventorship (Rule 4.17(iv)) for US only*

**Published:**

— *with international search report*

— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

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(81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC,

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

1 July 2004

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

(54) Title: DRUG ELUTING COATINGS FOR MEDICAL IMPLANTS

(57) Abstract: Drug eluting coating compositions are composed of at least one therapeutic agent dispersed in modified, biologically active binders. The therapeutic agents included in the coating composition are paclitaxel, sirolimus, tacrolimus, everolimus, actinomycin-D, dexamethasone, mycophenolic acid, cyclosporins, estradiol, and derivatives and analogs thereof. These therapeutic agents are applied to the surface of the medical device by a modified, biologically active binders. By using these biologically active binders, the therapeutic agents can be applied to at least one surface of a medical implant without using inert polymer carriers.



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## INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/26364

**A. CLASSIFICATION OF SUBJECT MATTER**

IPC(7) : A61J 3/00  
 US CL : 424/422, 423, 424

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)

U.S. : 424/422, 423, 424

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 practicable, search terms used)  
 EAST, CAS ONLINE

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6,179,817 B1 (ZHONG) 30 January 2001 (30.01.2001), see entire document.	1-26
A	US 5,837,313 A (DING et al.) 17 November 1998 (17.11.1998), see entire document.	1-26
A	US 5,980,972 A (DING) 09 November 1999 (09.11.1999), see entire document.	1-26

☐ 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

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"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"

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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

"&amp;"

document member of the same patent family

Date of the actual completion of the international search

20 November 2003 (20.11.2003)

Date of mailing of the international search report

15 MAY 2004

Name and mailing address of the ISA/US

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