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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, NO, NZ, OM, PH, PL, PT,
RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA,
UG, UZ, VN, YU, ZA, ZM, ZW, ARIPO patent (GH, GM,
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BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ,
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IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU,
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PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR,
TT, TZ, UA, UG, UZ, VN, YU, ZA, ZM, ZW, 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, CH, CY, DE, DK, ES, FI, FR, GB,
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CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD,
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(81) Designated States (national): AE, AG, AL, AM, AT, AU,
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LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW,
MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG,
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For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(54) Title: USES FOR MEDICAL DEVICES HAVING A LUBRICIOUS, NITRIC OXIDE-RELEASING COATING FOR THE
THERAPY OF VASCULAR DISORDERS

(57) Abstract: Methods are provided for delivering nitric oxide to the vascular tissue of a patient to inhibit or prevent restenosis or improve vascular function following various surgical procedures or associated with various NO-related conditions. The disclosed methods comprise contacting the vascular tissue of a patient with a medical device coated with a coating comprising nitric oxide associated with and releaseable from a polyurea network formed from the reaction on said medical device of a polyisocyanate; an amine donor and/or hydroxyl donor; an isocyanatosilane adduct having terminal isocyanate groups and at least one hydrolyzable alkoxy group bonded to silicon; and optionally a polymer selected from the group consisting of polyethylene oxide, polyvinyl pyrrolidone, polyvinyl alcohol, polyethylene glycol, and polyacrylic acid.



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INTERNATIONAL SEARCH REPORT

 International Application No
 PCT/US 01/43719

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 A61L27/18 A61L27/54 A61P9/00		
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) IPC 7 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, 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	EP 0 992 252 A (MEDTRONIC AVE INC) 12 April 2000 (2000-04-12) column 3, line 27 - line 57; claims; example 1	1-15
P,X	WO 01 85227 A (MEDTRONIC AVE) 15 November 2001 (2001-11-15) claims; examples	1-15
P,X	WO 01 10344 A (BARD INC C R) 15 February 2001 (2001-02-15) claims; example 1	1-15
A	US 5 665 077 A (HERZOG JR WILLIAM R ET AL) 9 September 1997 (1997-09-09) claims; examples	1-15
	-/--	
<input checked="" type="checkbox"/> Further documents are listed in the continuation of box C. <input checked="" type="checkbox"/> Patent family members are listed in 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 20 September 2002		Date of mailing of the international search report 04/10/2002
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 ESPINOSA, M

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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	US 5 356 433 A (ROWLAND STEPHEN M ET AL) 18 October 1994 (1994-10-18) claims; examples	1-15
A	US 5 645 931 A (FAN YOU-LING ET AL) --- 8 July 1997 (1997-07-08) cited in the application claims; examples	1-15
A	US 5 405 919 A (HRABIE JOSEPH A ET AL) 11 April 1995 (1995-04-11) cited in the application claims; examples -----	1-15

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US 01/43719

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
Although claims 1-15 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2. Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- The additional search fees were accompanied by the applicant's protest.
- No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No PCT/US 01/43719

Patent document cited in search report	A	Publication date	Patent family member(s)	Publication date
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