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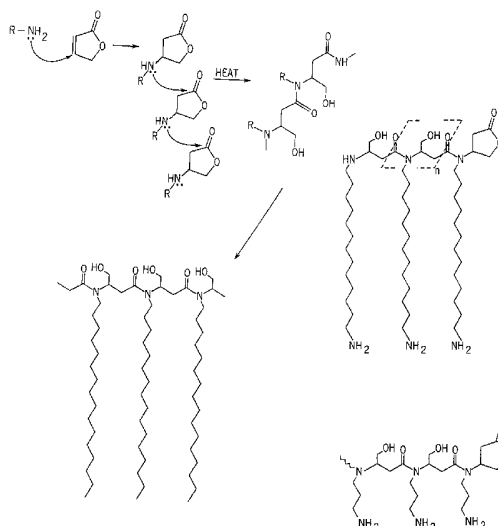
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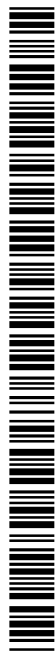
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[Continued on next page]

(54) Title: ANTITHROMBOGENIC POLYMER COATING



(57) Abstract: An article having a non-thrombogenic surface and a process for making the article are disclosed. The article is formed by (i) coating a polymeric substrate with a crosslinked chemical combination of a polymer having at least two amino substituted side chains, a crosslinking agent containing at least two crosslinking functional groups which react with amino groups on the polymer, and a linking agent containing a first functional group which reacts with a third functional group of the crosslinking agent, and (ii) contacting the coating on the substrate with an antithrombogenic agent which covalently bonds to a second functional group of the linking agent. In one example embodiment, the polymer is a polyamide having amino substituted alkyl chains on one side of the polyamide backbone, the crosslinking agent is a phosphine having the general formula (A)₃P wherein A is hydroxyalkyl, the linking agent is a polyhydrazide and the antithrombogenic agent is heparin.



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INTERNATIONAL SEARCH REPORT

International Application No
PCT/US 01/44597

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 A61L33/00

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)

WPI Data, PAJ, EPO-Internal, BIOSIS, MEDLINE

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
E	WO 02 38649 A (MICHIGAN BIOTECH INST) 16 May 2002 (2002-05-16) cited in the application page 4, line 9 -page 5, line 29 page 6, line 20 -page 13, line 20 page 13, line 26 page 20, line 18 -page 21, line 11 page 23, line 3 - line 13 ---	1, 3-6, 8, 9, 11-26, 28, 34-49, 51-53
A	WO 95 05400 A (MINNESOTA MINING & MFG) 23 February 1995 (1995-02-23) page 2, line 15 -page 3, line 15 claims --- -/--	1-53

Further documents are listed in the continuation of box C.

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
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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.
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INTERNATIONAL SEARCH REPORT

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