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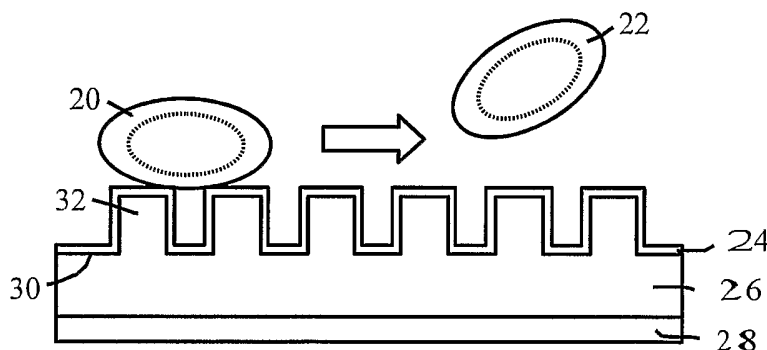
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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: ANTI-ADHESIVE SURFACE TREATMENTS



(57) Abstract: The present invention includes a surface (30) being formed of a synthetic polymer film (26) having pillars or ridges (32). The width, height, and spacing of the pillars or ridges (32) is such that platelets (20) will not adhere to the surface (30) to the extent that such would occur to a flat surface (18) even after a thin protein coating (24) has been deposited by the blood due to the reduced effective surface area of the surface (30).

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US05/12305

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : A61F 2/02

US CL : 623/23.74

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. : 623/23.74, 1.46

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)

Please See Continuation Sheet

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 99/45860 A (THE UNIVERSITY COURT OF THE UNIVERSITY OF GLASGOW) 16 September 1999 (16.09.1999), see Figure 1, the abstract, page 3, line 26 to page 5, line 24 and page 9, lines 15-20.	1-11, 14-18, and 20 ----- 12, 13, and 19

Y		
Y	US 4,955,899 A (DELLA CORNA et al) 11 September 1990 (11.06.1990), see claims 1 and 14.	12, 13, and 19
X	US 4,491,891 A (SHIBA) 01 January 1985 (01.01.1985), see the abstract and column 2, line 22 to column 3, line 27.	1-4, 9, 10, 14-16, and 18
X	US 5,011,494 A (VON RECUM et al) 30 April 1991 (30.04.1991), see Figure 3 and column 5, lines 13-61.	1-4, 6-11, 14-16, 18, and 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	"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
"E" earlier application or patent published on or after the international filing date	"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
"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)	"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
"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search

24 January 2006 (24.01.2006)

Date of mailing of the international search report

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US05/12305

Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 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:
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 No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:
Please See Continuation Sheet

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 additional fees, this Authority did not invite payment of any additional fees.
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.: 1-20

- Remark on Protest**
- ☐ The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.
 - ☐ The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.
 - ☐ No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US05/12305

BOX III. OBSERVATIONS WHERE UNITY OF INVENTION IS LACKING

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1. In order for all inventions to be examined, the appropriate additional examination fees must be paid.

Group I, claim(s) 1-20, drawn to a surface and apparatus.

Group II, claim(s) 21-25, drawn to a method of making an implant.

The inventions listed as Groups I and II do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: WIPO patent WO-99/45860 shows that the corresponding technical feature of a surface of reduced accessibility is not a special technical feature.

Continuation of B. FIELDS SEARCHED Item 3:

EAST search terms: (adhesion or adhere) with (surface or face) with (reduc\$4 or decreas\$3 or prevent\$3) same (protrusion or protrude or protruding of pillar\$2 or projection or projecting)