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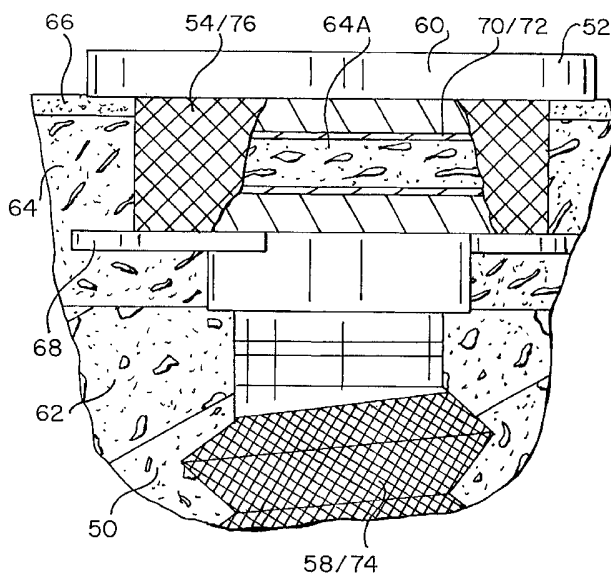
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- (71) Applicant (for all designated States except US): BIOLOK INTERNATIONAL, INC. [US/US]; 312 South Military Trail, Deerfield Beach, FL 33442 (US).
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- (72) Inventors; and
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- (75) Inventors/Applicants (for US only): RICCI, John, L. [—/US]; 46 Verdun Place, Middletown, NJ 07748 (US). ALEXANDER, Harold [—/US]; 47 Elmwood Place, Short Hills, NJ 07078 (US).
- 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: TRANSCUTANEOUS DEVICES HAVING NUERAL INTERFACE



(57) Abstract: A transcutaneous implant constitutes proximal partially external section; a collar section, integrally dependent from the external section, the collar section having a microtextured surface constituting a microgeometric, repetitive surface pattern, in a form of multiplicity of alternating ridges and grooves, each having an established width in a range of about 2 to about 25 microns, and an established depth in a like range; an anchor-like distal section, integrally dependent from the collar section, for implantation into a bone segment to be stabilized during a medically advantageous period of time. The surface pattern defines a guide at tissue, cellular and molecular levels for a preferential promotion of rate, orientation and direction of growth of colonies of cells which are in contact with the pattern.

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/27662

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : A61F 2/30

US CL : 623/23.44

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. : 623/23.44, 23.5, 25; 606/72

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)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5,989,027 A (WAGNER et al.) 23 November 1999 (23.11.1999), see entire document.	1-5
A	US 5,607,474 A (ATHANASIOU et al.) 4 March 1997 (4.03.1997), see entire document.	1-5
A	US 5,588,838 A (HANSSON et al.) 31 December 1996 (31.12.1996), see entire document.	1-5
A	US 4,865,603 A (NOILES) 12 September 1989 (12.09.1989), see entire document.	1-5
A	US 4,752,294 A (LUNDGREN) 21 June 1988 (21.06.1988), see entire document.	1-5
A	US 4,673,409 A (VAN KAMPEN) 16 June 1987 (16.06.1987), see entire document.	1-5
A	US 4,553,272 A (MEARS) 19 November 1985 (19.11.1985), see entire document.	1-5
A	US 4,330,891 A (BRANEMARK et al.) 25 May 1982 (25.05.1982), see entire document.	1-5

Further documents are listed in the continuation of Box C.

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Name and mailing address of the ISA/US

Mail Stop PCT, Attn: ISA/US
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

Facsimile No. (703)305-3230

Authorized officer

Javier G. Blanco

Telephone No. 703-605-4259