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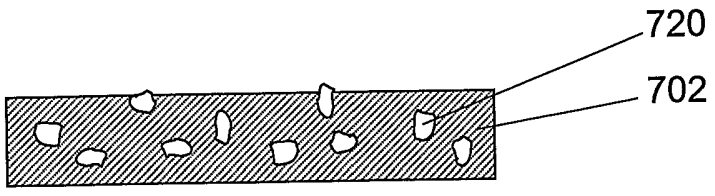
(54) Title: ARTICLE TO BE INSERTED IN A BODY CAVITY HAVING BIOLOGICALLY INHIBITING SURFACES



(57) Abstract: An article to be inserted in a human or animal body cavity, use of the article and preparation thereof. The article has a biologically inhibiting arrangement of electrically connected electrode materials in direct contact with each other on one or more surfaces of the article The arrangement includes as electrode materials a metallic anode material and a cathode material, where the potential of the cathode material is higher than the potential of the anode material, The cathode material is an electrically conductive material selected among certain non-metallic materials. The arrangement provided on the article releases biological inhibiting ions of the metallic anode material or complexes of such ions when the biologically inhibiting arrangement is contacted with a body fluid. The article can be designed with a controlled release rate suitable for the purpose in question for example an initial high rate of ion release after insertion of a catheter to combat bacteria introduced during the insertion followed by a prolonged release at a lower rate to maintain a low level of bacteria.

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER
INV. A61L29/14

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)
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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, PAJ, BIOSIS, EMBASE

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 322 520 A (MILDER ET AL) 21 June 1994 (1994-06-21) columns 4-5 figure 3	1-7, 12-20, 22-26, 28,34, 37-39
X	US 4 569 673 A (TESI ET AL) 11 February 1986 (1986-02-11) column 5, lines 1-33 column 2, lines 38-63 column 3, line 12 column 4, lines 3-13	1-39

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[X] Further documents are listed in the continuation of Box C.

[X] See patent family annex.

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Date of the actual completion of the international search	Date of mailing of the international search report
2 October 2006	18/10/2006

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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	WO 2004/045577 A (DANMARKS TEKNISKE UNIVERSITET-DTU; MOELLER, PER; JENSEN, ERIK-OLE; RIS) 3 June 2004 (2004-06-03) cited in the application abstract	
A	US 6 287 484 B1 (HAUSSLEIN ROBERT ET AL) 11 September 2001 (2001-09-11) cited in the application columns 4-5 figure 3	

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No
PCT/DK2006/000154

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 5322520 A	21-06-1994	CA 2149216 A1	26-05-1994
		EP 0678047 A1	25-10-1995
		JP 3555684 B2	18-08-2004
		JP 8506027 T	02-07-1996
		WO 9411058 A1	26-05-1994
		US 5498248 A	12-03-1996
US 4569673 A	11-02-1986	NONE	
WO 2004045577 A	03-06-2004	AU 2003281971 A1	15-06-2004
		CA 2506591 A1	03-06-2004
		EP 1575550 A1	21-09-2005
		US 2006003019 A1	05-01-2006
US 6287484 B1	11-09-2001	NONE	