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(54) Title: METHOD AND SYSTEM FOR DIRECTING A LOCALIZED BIOLOGICAL RESPONSE TO AN IMPLANT

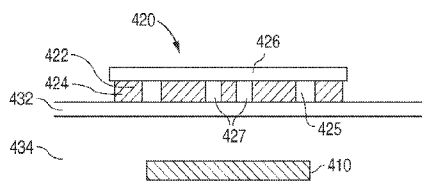


FIG. 4

(57) Abstract: The invention provides methods for directing a localized biological response of a mammalian body to an implant disposed within the body. In one embodiment, a delivery system is positioned outside the body and adjacent to the implant within the body. The delivery system comprises a first tissue response modifier effective for directing a localized biological response of the body to the implant. The tissue response modifier is nonsurgically delivered from the delivery system into the body in a quantity effective to direct the localized biological response of the body to the implant. The invention also provides an implant system for long-term use comprising an implant and nonsurgical means for delivering a tissue response modifier through the epidermis of the body, the tissue response modifier effective for directing a localized biological response of the body to the implant.



WO 2010/141377 A3

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2010/036698**A. CLASSIFICATION OF SUBJECT MATTER***A61M 37/00(2006.01)i, A61M 5/14(2006.01)i, A61M 35/00(2006.01)i*

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)

A61M 37/00; A61M 5/32; A61F 2/14; A61M 36/00; A61M 5/00; A61F 13/00; A61M 25/00

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Korean utility models and applications for utility models

Japanese utility models and applications for utility models

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

eKOMPASS(KIPO internal) & Keywords: implant, modifier, delivery

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2004-0143221 A1 (JOHN H. SHADDUCK) 22 July 2004 See claims 1-20, figures 1-4	22-25
A	US 2003-0208166 A1 (ANTHONY, H. SCHWARTZ) 06 November 2003 See claims 1-13, figures 1-3	22-25
A	US 2005-0119737 A1 (ERIC BENE et al.) 02 June 2005 See claims 1-130, figures 1-45	22-25
A	US 2007-0010702 A1 (XINGWU WANG et al.) 11 January 2007 See claims 1-315, figures 1-49	22-25

 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

"E" earlier application or patent 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 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

10 JANUARY 2011 (10.01.2011)

Date of mailing of the international search report

09 FEBRUARY 2011 (09.02.2011)

Name and mailing address of the ISA/KR

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US2010/036698**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.: 1-21
because they relate to subject matter not required to be searched by this Authority, namely:
Claims 1-21 relate a method for directing a localized biological response, which fall into the category of methods for treatment of the human body by surgery or therapy as well as diagnostic methods [Article 17(2)(a)(i), Rule 39.1(iv) PCT].
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:

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 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

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International application No.

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