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Published:

- with international search report (Art. 21(3))
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))

[Continued on next page]

(54) Title: DEVICE AND METHOD FOR DRUG DELIVERY

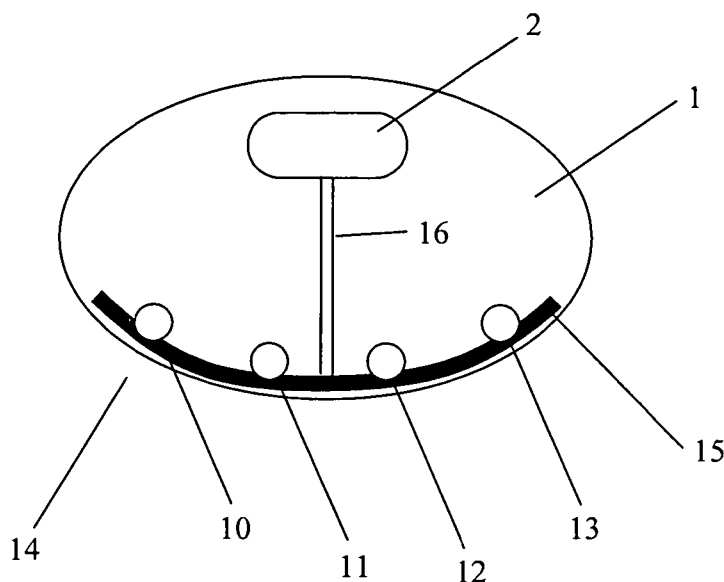


Figure 1

(57) Abstract: A therapeutic treatment device, system and method for improving administration of a temperature sensitive drug into a tissue on the body of a patient at a drug injection site are disclosed. The device includes a treatment element with a controllable heating element in temperature communicative contact with the tissue adjacent to the drug injection site. The controllable heating element is configured to heat the tissue adjacent to the drug injection site to a controllable temperature but does not heat the injected drug above a predetermined limiting temperature, above which degradation of the injected drug may occur.

(88) Date of publication of the international search report:
25 November 2010

INTERNATIONAL SEARCH REPORT

International application No

PCT/IB2009/007600

A. CLASSIFICATION OF SUBJECT MATTER
 INV. A61F7/08 A61M5/00 A61M5/44 A61M5/50

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)

A61F A61M

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

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 2008/114218 A2 (INSULINE MEDICAL LTD [IL]; PESACH BENNY [IL]; BITTON GABRIEL [IL]; WEI) 25 September 2008 (2008-09-25)	1-10, 12, 14-23
Y	paragraphs [0008], [0025], [0038], [0068], [0069], [0157], [0167], [0206], [0207], [0321]; figures 21, 22, 41C	11, 13
A	US 2003/231990 A1 (FARIES DURWARD [US] ET AL FARIES JR DURWARD [US] ET AL) 18 December 2003 (2003-12-18) abstract paragraph [0029]	8-10
Y	WO 02/068028 A1 (VAN KAAUWEN JOHANNES CORNELIUS [CA]) 6 September 2002 (2002-09-06)	11, 13
A	abstract	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

"E" earlier document 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 another 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

30 September 2010

Date of mailing of the international search report

12/10/2010

Name and mailing address of the ISA/

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INTERNATIONAL SEARCH REPORT

International application No.
PCT/IB2009/007600

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.: 32, 33
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:
see FURTHER INFORMATION sheet PCT/ISA/210

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:

see additional 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 an additional fees, this Authority did not invite payment of 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.:
1-23

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.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box II.2

Claims Nos.: 32, 33

Rule 39.1(iv) PCT - Method for treatment of the human or animal body by therapy

The applicant's attention is drawn to the fact that claims relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure. If the application proceeds into the regional phase before the EPO, the applicant is reminded that a search may be carried out during examination before the EPO (see EPO Guideline C-VI, 8.2), should the problems which led to the Article 17(2)PCT declaration be overcome.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-23

a device for heating a medicine injection site to a given temperature

2. claims: 24-31

a device comprising an injector housing and an additional treatment device

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No PCT/IB2009/007600

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 2008114218 A2	25-09-2008	US 2008281297 A1	13-11-2008
US 2003231990 A1	18-12-2003	AU 2003241330 A1 WO 03105914 A1	31-12-2003 24-12-2003
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