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Declarations under Rule 4.17:

— as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))

[Continued on next page]

(54) Title: WOUND TREATMENT SYSTEM AND SUCTION REGULATOR FOR USE THEREWITH

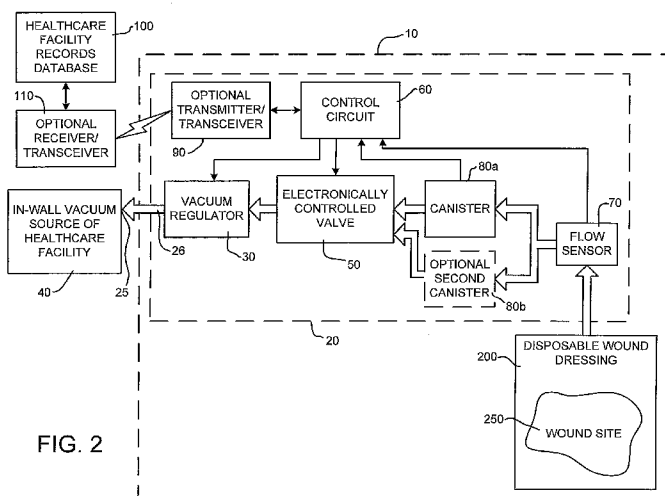


FIG. 2

(57) Abstract: A system (10) is provided for the treatment of wounds (250). The system comprises an electronically controlled suction regulator (20) that comprises: a vacuum regulator (30), a coupler (25) for coupling the vacuum regulator to an external vacuum source (40), a valve (50) connected to the vacuum regulator for supplying a negative pressure to the wound, and a control circuit (60) for generating control signals for controlling the valve so that negative pressure may be continuously or intermittently supplied to the wound. The system further comprises a wound dressing (200) provided at the wound site and coupled to the electrically operated valve. The wound dressing comprises a wound dressing pad (225) for placing over the wound, and a wound drape (222) provided over the wound dressing pad and the wound site for sealing the wound site for application of the negative pressure.



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- *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))* — *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

Published:

- *with international search report*

(88) Date of publication of the international search report:

30 April 2009

A. CLASSIFICATION OF SUBJECT MATTER*A61B 19/00(2006.01)i, A61H 7/00(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)

IPC 8: A61B, A61F, A61H, A61M

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 since 1975

Japanese Utility models and applications for Utility models since 1975

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

eKIPASS(KIPO Internal) "wound", "negative", "pressure", "suction", "vacuum", "regulator", "valve", "control", "dressing"

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X Y A	WO 00-21586 A1 (KCI MEDICAL LIMITED) 20 April 2000 See the whole document	1, 2, 4, 5, 9-13, 19, 20 3, 6-8, 14 15-18
Y	WO 2007-019038 A2 (RICHARD C. VOGEL) 15 February 2007 See claims 1, 8, 30, 38, paragraphs [00020], [00021], figures 5A and 11	3, 6-8, 14
A	US 2003-0040687 A1 (THOMAS A. BOYNTON et al.) 27 February 2003 See claims 1 and 36, abstract, figure 1	1-20
A	US 7077832 B2 (WILHELM FLEISCHMANN) 18 July 2006 See claim 1, abstract, figure 1	1-20



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 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

25 FEBRUARY 2009 (25.02.2009)

Date of mailing of the international search report

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US2008/072348**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.: 21
because they relate to subject matter not required to be searched by this Authority, namely:
Claim 21 pertains to methods for treatment of human or animal body by therapy and thus relate to a subject matter which this International Searching Authority is not required to search under Article 17(2)(a)(i) and Rule 39.1(iv) PCT.
(Claims of this application are not numbered consecutively in Arabic numbers, since claims 16-18 are found twice. It is considered that last claim of this application is claim number 21.)
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.

Information on patent family members

PCT/US2008/072348

Form PCT/ISA/210 (patent family annex) (July 2008)