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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))
- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))

[Continued on next page]

(54) Title: DEVICE FOR DELIVERING ADHESIVE

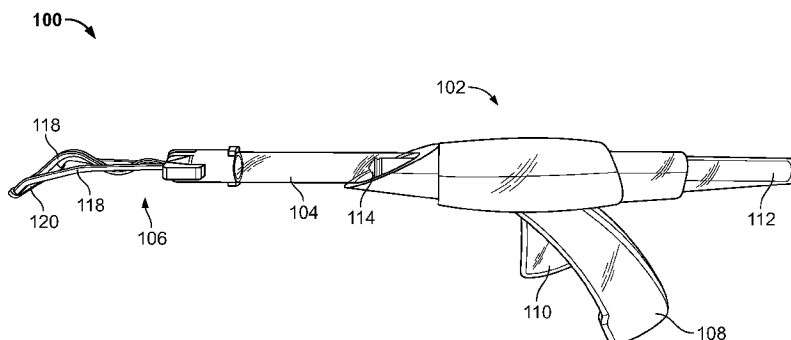


FIG. 1

(57) Abstract: This document relates to delivery devices for dispensing fluid materials, including high viscosity fluids such as high viscosity surgical adhesives. For example, methods and materials for an integrated system of containing and permitting point of use delivery of a high viscosity adhesive fluid onto a planar surface of tissue during a surgical procedure are provided.

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21 April 2011

- *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))*

**A. CLASSIFICATION OF SUBJECT MATTER***A61B 17/03(2006.01)i, A61B 17/04(2006.01)i, A61B 19/00(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)

A61B 17/03; A61M 29/00; A61F 2/46; A61B 17/34; B65B 3/04; B65D 69/00; A61F 7/00

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) &amp; Keywords: fluid, cartridge, and actuator

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2008-0103564 A1 (BRIAN D. BURKINSHAW et al.) 01 May 2008 See paragraph 0105 - paragraph 0125 and figures 1A-21B	1-12, 15-17, 19-23, 25-36, 39-41, 43-47
X	US 2005-0173019 A1 (RAMON NAVARRO) 11 August 2005 See the abstract; paragraph 0074 - paragraph 0103 and figures 1-28	50-56
A	US 2004-0230157 A1 (STEPHEN J. PERRY et al.) 18 November 2004 See the abstract and figures 1-7f	1-48
A	US 2006-0111738 A1 (THOMAS WENCHELL) 25 May 2006 See the abstract and figures 1-11	1-48
A	WO 2007-122006 A1 (SUMMIT MEDICAL LIMITED) 01 November 2007 See the abstract and figures 1-11C	1-48

 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

"&amp;" document member of the same patent family

Date of the actual completion of the international search

21 FEBRUARY 2011 (21.02.2011)

Date of mailing of the international search report

**22 FEBRUARY 2011 (22.02.2011)**

Name and mailing address of the ISA/KR

Korean Intellectual Property Office  
Government Complex-Daejeon, 139 Seonsa-ro, Seo-gu, Daejeon 302-701, Republic of Korea

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**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.: 49  
because they relate to subject matter not required to be searched by this Authority, namely:  
Claim 49 pertains to method for treatment of the human body by surgery and thus relates to a subject matter which this International Searching Authority is not required, under Article 17(2)(a)(i) of the PCT and Rule 39.1(iv) of the Regulations under the PCT, to search.
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:

Group 1: claims 1-48 relating to a delivery device for applying two or more drops of a viscous fluid to a surface.

Group 2: claims 50-56 relating to a system or a method for filling a cartridge with a viscous fluid.

The common technical feature among groups 1-2 is readily derived from document US 2008/0103564 A1. Therefore, groups 1-2 do not have any common special technical feature over the prior art, thereby resulting in lack of unity of invention. (PCT Rule 13.1, 13.2).

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**

Information on patent family members

International application No.

**PCT/US2010/035452**

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Information on patent family members

International application No.

**PCT/US2010/035452**

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