#### (12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

# (19) World Intellectual Property Organization International Bureau





(43) International Publication Date 4 May 2006 (04.05.2006)

# (10) International Publication Number $WO\ 2006/046060\ A3$

(51) International Patent Classification:

 A61M 1/00 (2006.01)
 A61M 27/00 (2006.01)

 A61M 3/02 (2006.01)
 A61F 13/00 (2006.01)

(21) International Application Number:

PCT/GB2005/004177

(22) International Filing Date: 28 October 2005 (28.10.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

0424046.1 29 October 2004 (29.10.2004) GE

(71) Applicant (for all designated States except US): SMITH & NEPHEW, PLC [GB/GB]; 15 Adam Street, London WC2N 6LA (GB).

(72) Inventor; and

(75) Inventor/Applicant (for US only): MARTIN, Robin

[GB/GB]; 4 Forge Close, Wheldrake, York YO19 6GF (GB).

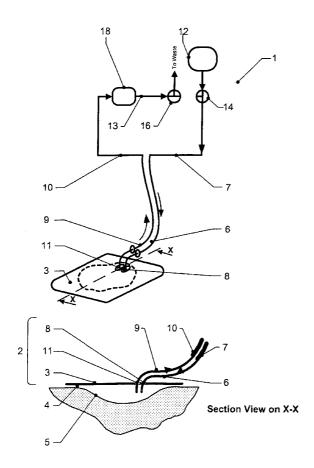
(74) Agent: DRAGGETT, Peter, Thornton; Smith & Nephew, York Science Park, Heslington, York YO10 5DF (GB).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),

[Continued on next page]

(54) Title: APPARATUS FOR ASPIRATING, IRRIGATING AND/OR CLEANSING WOUNDS



(57) Abstract: An apparatus for cleansing wounds in which irrigant fluid from a reservoir connected to a conformable wound dressing and wound exudate from the dressing are moved by a device (which may be a single pump or two pumps) for moving fluid through a flow path which passes through the dressing and over a biodegradable scaffold in contact with the wound bed (which encourages healing tissue growth from the wound bed). The apparatus has means (which includes the device(s)) for providing simultaneous aspiration and irrigation of the wound. A dressing assembly including the dressing and the scaffold, and the dressing and a method of treatment using the apparatus.

## WO 2006/046060 A3



European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

### Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

# (88) Date of publication of the international search report: 10 August 2006

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

#### INTERNATIONAL SEARCH REPORT

itional application No PCT/GB2005/004177

CLASSIFICATION OF SUBJECT MATTER NV. A61M1/00 A61M3 ÎNV. Ä61M3/02 A61M27/00 A61F13/00 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 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 C. DOCUMENTS CONSIDERED TO BE RELEVANT Relevant to claim No. Citation of document, with indication, where appropriate, of the relevant passages Category\* χ WO 02/092783 A (CHILDREN'S MEDICAL CENTER 1 - 13CORPORATION) 21 November 2002 (2002-11-21) paragraphs [0011], [0033], [0034], [0041], [0050], [0062], [0079], [0080]: figure 9 χ WO 2004/037334 A (SMITH & NEPHEW PLC; 12 BLOTT, PATRICK, LEWIS; GREENER, BRYAN; HARTWELL, E) 6 May 2004 (2004-05-06) the whole document 1.5 - 11Α P.X WO 2005/051461 A (SMITH & NEPHEW PLC: BLOTT, PATRICK, LEWIS; GREENER, BRYAN; HARTWELL, E) 9 June 2005 (2005-06-09) the whole document P,A 1,5-11-/--X I Χ Further documents are listed in the continuation of Box C. See patent family annex. Special categories of cited documents : "T" later document published after the international filing date or priority date and not in conflict with the application but "A" document defining the general state of the art which is not considered to be of particular relevance cited to understand the principle or theory underlying the "E" earlier document but published on or after the international "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 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) "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 docu-"O" document referring to an oral disclosure, use, exhibition or ments, such combination being obvious to a person skilled in the art. document published prior to the international 'filing date but later than the priority date claimed \*&\* document member of the same patent family Date of the actual completion of the international search Date of mailing of the international search report 29/06/2006 15 June 2006 Name and mailing address of the ISA/ Authorized officer European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Lakkis, A Fax: (+31-70) 340-3016

### INTERNATIONAL SEARCH REPORT

ational application No PCT/GB2005/004177

C(Continua	tion). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.	
Ρ,Χ	WO 2005/046762 A (SMITH & NEPHEW PLC; MARTIN, ROBIN, PAUL) 26 May 2005 (2005-05-26) the whole document		1–13
	·		
		*	
,			
,			
ļ	·		

ternational application No. PCT/GB2005/004177

### INTERNATIONAL SEARCH REPORT

Box 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. X Claims Nos.:  14 because they relate to subject matter not required to be searched by this Authority, namely:  Rule 39.1(iv) PCT - Method for treatment of the human or animal body by therapy								
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 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:								
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.  No protest accompanied the payment of additional search fees.								

### INTERNATIONAL SEARCH REPORT

Information on patent family members

itional application No

Patent document cited in search report		Publication date	Patent family member(s)		Publication date
WO 02092783	Α	21-11-2002	NONE		
WO 2004037334	Α	06-05-2004	AU CA CN EP JP	2003276408 A1 2503897 A1 1732028 A 1562668 A1 2006503628 T	13-05-2004 06-05-2004 08-02-2006 17-08-2005 02-02-2006
WO 2005051461	Α	09-06-2005	AU CA	2004292383 A1 2540878 A1	09-06-2005 09-06-2005
WO 2005046762	Α	26-05-2005	AU	2004289092 A1	26-05-2005