(19) World Intellectual Property Organization International Bureau





(43) International Publication Date 9 October 2003 (09.10.2003)

PCT

(10) International Publication Number WO 03/082361 A3

- (51) International Patent Classification⁷: A61L 27/50, 27/38, 31/00, A61B 19/00
- (21) International Application Number: PCT/GB03/01368
- **(22) International Filing Date:** 28 March 2003 (28.03.2003)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:

0207416.9 28 March 2002 (28.03.2002) GE

- (71) Applicant (for all designated States except US): UNI-VERSITY COLLEGE LONDON [GB/GB]; Gower Street, London, Greater London WC1E 6BT (GB).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): MASON, Christopher [GB/GB]; 67 Greenland Quay, London, Greater London SE16 7RR (GB). TOWN, Martin, Arthur, [GB/GB]; 57 Culverley Road, Catford, London, Greater London SE6 2LD (GB).
- (74) Agents: PAGET, Hugh, C.E. et al.; Mewburn Ellis, York House, 23 Kingsway, London, Greater London WC2B 6HP (GB).

- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

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

 18 December 2003

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.

(54) Title: DELIVERY ASSEMBLY FOR USE IN SURGERY

(57) Abstract: A delivery assembly for use in surgery particularly laparoscopic surgery, comprises a surgically implantable construct (1) containing viable cells, a support (2) on which the construct is removably carried and holding means such as a vacuum system (4, 5) releasably holding the construct on the support. The support (2) is selected from a tube having an interior surface on which the construct is held, and a rod having an exterior surface on which the construct is held. The support protects the delicate construct and maintains it in a desired position for surgical manipulation.

INTERNATIONAL SEARCH REPORT

rational Application No PCT/GB 03/01368

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 A61L27/50 A61L A61L27/38 A61B19/00 A61L31/00 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) IPC 7 A61L A61B 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, CHEM ABS Data C. DOCUMENTS CONSIDERED TO BE RELEVANT Category Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. Υ US 6 120 513 A (BAILEY ROBERT W ET AL) 1-9 19 September 2000 (2000-09-19) claims; figures P,Y WO 02 07736 A (CADILA PHARMACEUTICALS LTD 1-9 ;KHAMAR BAKULESH MAFATLAL (IN)) 31 January 2002 (2002-01-31) cited in the application claims; figures Α DE 196 00 519 A (PIER ARNOLD DIPL ING DR 1 - 9MED) 10 July 1997 (1997-07-10) claims; figures Α US 5 741 274 A (KINNEY EDWARD V ET AL) 1 - 921 April 1998 (1998-04-21) claims; figures -/--Further documents are listed in the continuation of box C. Patent family members are listed in annex. Χ 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 cited to understand the principle or theory underlying the "A" document defining the general state of the art which is not considered to be of particular relevance invention "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 documents, such combination being obvious to a person skilled in the out. "O" document referring to an oral disclosure, use, exhibition or other means document published prior to the international filing date but later than the priority date claimed in the art. "&" document member of the same patent family Date of the actual completion of the international search Date of mailing of the international search report 18 September 2003 30/09/2003 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, ESPINOSA, M Fax: (+31-70) 340-3016

INTERNATIONAL SEARCH REPORT

rnational Application No
PCT/GB 03/01368

C.(Continua	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	101/40 03/01300		
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.		
A	WO 95 34244 A (DABEGRAN TECHNOLOGY INC) 21 December 1995 (1995-12-21) claims; figures	1-9		
А	US 5 922 026 A (CHIN ALBERT K) 13 July 1999 (1999-07-13) claims; figures	1-9		
A	claims; figures EP 0 393 788 A (KOKEN KK) 24 October 1990 (1990-10-24) claims; figures	1-9		

International application No. PCT/GB 03/01368

INTERNATIONAL SEARCH REPORT

Box I	Observations where certain claims were found unsearchable (Continuation of item 1 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:						
	Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:					
	Although claims 8-9 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.					
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:					
	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 II	Observations where unity of invention is lacking (Continuation of item 2 of first sheet)					
This Inter	rnational 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.					
	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 tramily members

national Application No PCT/GB 03/01368

					00, 01000	
Patent document cited in search report		Publication date		Patent family member(s)	Publication date	
US 6120513	Α	19-09-2000	AU WO	2314699 A 9934736 A1	26-07-1999 15-07-1999	
WO 0207736	A	31-01-2002	WO	0207736 A1	31-01-2002	
DE 19600519	Α	10-07-1997	DE WO	19600519 A1 9724990 A1	10-07-1997 17-07-1997	
US 5741274	Α	21-04-1998	NONE		میں ہیں کا نامہ بہت ہیں ہوگ کانا انتخا سے پسر پاک کانا	
WO 9534244	A	21-12-1995	UST AU CA DE DE DE DE GR PT US US	5462559 A 191324 T 693866 B2 1836595 A 2192471 A1 29521390 U1 69516147 T2 773741 T3 0773741 A1 2146310 T3 3033688 T3 10501165 T 773741 T 9534244 A1 6149659 A 5624453 A 6007551 A	31-10-1995 15-04-2000 09-07-1998 05-01-1996 21-12-1995 07-05-1997 11-05-2000 28-09-2000 14-08-2000 21-05-1997 01-08-2000 31-10-2000 03-02-1998 31-07-2000 21-12-1995 21-11-2000 29-04-1997 28-12-1999	
US 5922026	A	13-07-1999	NONE			
EP 0393788	A	24-10-1990	JP JP EP US US	2678945 B2 3198846 A 0393788 A2 5171261 A 5387236 A	19-11-1997 30-08-1991 24-10-1990 15-12-1992 07-02-1995	