

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
29 November 2001 (29.11.2001)

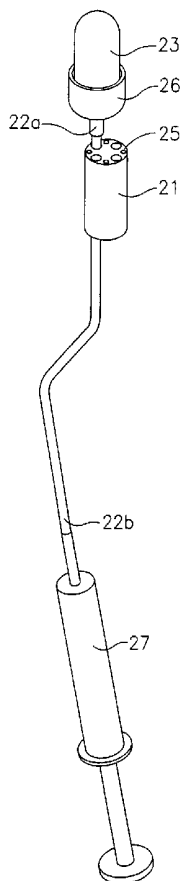
PCT

(10) International Publication Number
WO 01/089596 A3

- (51) International Patent Classification⁷: A61B 1/00 Arkady [IL/IL]; 24/5 Hanuriot Street, 36790 Nesher (IL). MERON, Gavriel [IL/IL]; 21 Weizmann Street, Kfar-Ganim, 49556 Petach Tikva (IL).
- (21) International Application Number: PCT/IL01/00457
- (22) International Filing Date: 21 May 2001 (21.05.2001) (74) Agents: PEARL, Zeev et al.; Eitan, Pearl, Latzer & Cohen-Zedek, 2 Gav Yam Center, 7 Shenkar Street, 46725 Herzlia (IL).
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data: 09/577,381 23 May 2000 (23.05.2000) US (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, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.
- (71) Applicant (for all designated States except US): GIVEN IMAGING LTD. [IL/IL]; 2 HaCarmel St., Industrial Park, 20692 Yoqneam (IL).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): RAZ, Dan [IL/IL]; 62 Habikurim Street, 34577 Haifa (IL). GLUKHOVSKY, (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian

[Continued on next page]

(54) Title: DEVICE FOR POSITIONING OBJECT IN A BODY LUMEN



(57) Abstract: The device of the invention for positioning and/or releasing an object in a body lumen, comprising a liquid filled tube (22) detachably connected to an injecting apparatus (27) at its proximal end (22b) and to a holding and releasing unit (26) having a bore (28) configured to hold and release the object (23), at its distal end (22a). The holding and releasing unit (26) is connected to the tube such that liquid can pass from the tube (22) into the holding and releasing unit bore (28). The object (23) is then released by activating the injecting apparatus (27) to achieve an hydraulic pressure in the holding and releasing unit bore (28) which is higher than the frictional force exerted by the holding and releasing unit (26) on the object (23).



WO 01/089596 A3



patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

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

29 August 2002

Published:

— with international search report

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

International application No.

PCT/IL01/00457

A. CLASSIFICATION OF SUBJECT MATTER		
IPC(7) : A61B 1/00 US CL : 600/104, 156		
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) U.S. : 600/104, 156; 604/21, 514		
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 practicable, search terms used)		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5,653,677 A (OKADA et al) 05 August 1997 (05.08.1997), col 6.	1-15
X	US 5,827,175 A (TANAKA) 27 October 1998 (27.10.1998).	1-15
<input type="checkbox"/> Further documents are listed in the continuation of Box C. <input type="checkbox"/> 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	"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
"E"	earlier application or patent published on or after the international filing date	"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
"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 art
"O"	document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
"P"	document published prior to the international filing date but later than the priority date claimed	
Date of the actual completion of the international search		Date of mailing of the international search report
13 November 2001 (13.11.2001)		29 APR 2002
Name and mailing address of the ISA/US Commissioner of Patents and Trademarks Box PCT Washington, D.C. 20231		Authorized officer Linda Dvorak
Facsimile No. (703)305-3230		Telephone No. (703) 308-0858

INTERNATIONAL SEARCH REPORT

International application No.

PCT/IL01/00457

Continuation of Item 4 of the first sheet:

The title is too long. It is suggested that the title be changed to: Device for Positioning Object in Body Lumen