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

(19) World Intellectual Property Organization

International Bureau





(10) International Publication Number WO 2014/183060 A3

(43) International Publication Date 13 November 2014 (13.11.2014)

(51) International Patent Classification: A61M 16/00 (2006.01) A61M 25/01 (2006.01)

(21) International Application Number:

PCT/US2014/037535

(22) International Filing Date:

9 May 2014 (09.05.2014)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

61/822,033 10 N

10 May 2013 (10.05.2013)

US

- (71) Applicant: PROMETHEUS MEDICAL INNOVA-TIONS LLC [US/US]; 13124 Scott Road, Waterford, Pennsylvania 16441 (US).
- (72) Inventor; and
- (71) Applicant (for US only): DAWSON, Randy J. [US/US]; 13124 Scott Road, Waterford, Pennsylvania 16441 (US).
- (74) Agents: KARCESKI, Jeffrey D. et al.; Thomas, Karceski & Karmilovich, PC, 888 16th Street, NW, Washington, District of Columbia 20006 (US).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY,

BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IR, IS, JP, KE, KG, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

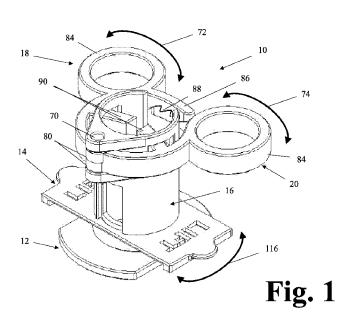
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, KM, ML, MR, NE, SN, TD, TG).

Published:

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

8 January 2015

(54) Title: CLAMP FOR IMMOBILIZING A MEDICAL SCOPE



(57) Abstract: A clamp for immobilizing a medical scope includes a scope barrel, first and second openings in the scope barrel, a first attachment bracket, a first scope locking element with a first pivot end, a first manipulable end, and a first scope pressure arm and a first locking arm disposed between the first pivot end and the first manipulable end, the first scope pressure arm being disposable through the first opening, and a second scope locking element with a second pivot end, a second manipulable end, and a second scope pressure arm and a second locking arm disposed between the second pivot end and the second manipulable end, the second scope pressure arm being disposable through the second opening. The first and second locking arms engage one another when in a locked position. The first and second scope pressure arms apply pressure to the medical scope when in the locked position.



INTERNATIONAL SEARCH REPORT

International application No. PCT/US 14/37535

A. CLASSIFICATION OF SUBJECT MATTER IPC(8) - A61M 16/00, A61M 25/01 (2014.01) CPC - A61M 16/04			
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): A61M 16/00, A61M 25/01 (2014.01) CPC: A61M 16/04			
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched USPC: 128/207.14			
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) Patbase, Google (Web, Patents, Images); Clamp, lock clamping, immobilization, immobilization, restraint, restraining, scope, appliance, applied, teeth, jaw, barrel, pivot, pivoting, elbow, ventilation, ventilating, ventilator, plate, catha*, rotating, rotatable, channel, secure, lock, locking, guide, tracheal, hand, held, serrated, cylinder, scissor			
C. DOCUMENTS CONSIDERED TO BE RELEVANT			
Category*	Citation of document, with indication, where a	ppropriate, of the relevant passages	Relevant to claim No.
Α	US 6,634,359 B1 (Rudy Jr. et al.) 21 October 2003 (21.10.2003) entire document, especially figs. 1-5, 18-19, col 4, ln 7-12, col 5, ln 41-50, col 6, ln 47-50, col 8, ln 36-55.		1-14
A .	US 5,069,206 A (Crosbie) 03 December 1991 (03.12.1991) entire document, especially figs. 1-2; col 2, ln 28-40.		1-14
A	US 5,806,516 A (Beattie) 15 September 1998 (15.09.1998) entire document, especially figs. 2-3, Abstract.		1-14
Α	US 4,986,815 A (Schneider) 22 January 1991 (22.01.1991) entire document, especially figs 1-3, 5-6; Abstract; col 3, ln 33-40, col 4, ln 31-40.		1-14
Α	US 4,249,529 A (Nestor et al.) 10 February 1981 (10.02.1981) entire document.		1-14
	·		
	·	•	
			,
	·	,	
Further documents are listed in the continuation of Box C.			
* Special categories of cited documents: "T" later document published after the international filing date or priority			
"A" document defining the general state of the art which is not considered to be of particular relevance date and not in conflict with the application but cited to understand the principle or theory underlying the invention			
"E" earlier application or patent but 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			ered to involve an inventive
cited to special	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		
means	means being obvious to a person skilled in the art		
"P" document published prior to the international filing date but later than "&" document member of the same patent family the priority date claimed			
Date of the actual completion of the international search Date of mailing of the international search			ch report
25 September 2014 (25.09.2014)		05 NOV 2014	
Name and mailing address of the ISA/US Authorized officer:			
Mail Stop PCT, Attn: ISA/US, Commissioner for Patents P.O. Box 1450, Alexandria, Virginia 22313-1450			
PCT Helpdesk: 571-272-4300			