



(51) International Patent Classification:
A61B 17/12 (2006.01)

(21) International Application Number:
PCT/US2016/018948

(22) International Filing Date:
22 February 2016 (22.02.2016)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
62/118,777 20 February 2015 (20.02.2015) US
15/049,498 22 February 2016 (22.02.2016) US

(71) Applicant: **SPACEBANDER CORPORATION**
[US/US]; 16 Independence Dr., Hillsborough, New Jersey
08844 (US).

(72) Inventor: **NAYAR, Devjit S.**; 415 Newark St., PH-1,
Hoboken, New Jersey 07030 (US).

(74) Agent: **GEARHART, Richard**; GEARHART LAW LLC,
41 River Road, Summit, New Jersey 07901 (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, 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, ST, 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:
13 October 2016

(54) Title: IMPROVED BANDING DEVICE FOR TREATING HEMMORRHOIDS AND RELOADING DEVICE

(57) Abstract: The application provides for an elastic band application ligation device. The following medical device medical device features an embowed inner tube, having a wall and a flat tip, a pusher which is complementarily shaped to said inner tube; and a receiving port, which is configured to removably attach to a device capable of generating suction. Preferably, this device capable of generating suction will be a disposable luer lock syringe.



WO 2016/134368 A3

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US 2016/018948

A. CLASSIFICATION OF SUBJECT MATTER <i>A61B 17/12 (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 17/00, 17/12, A61F 2/00		
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) PatSearch (RUPTO internal), USPTO, PAJ, Esp@cenet, DWPI, EAPATIS, PATENTSCOPE		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2014/0121679 A1 (IAIN G.M. CLEATOR) 01.05.2014, abstract, claims 1, 12, 13, [0031]-[0035], [0038], [0044], fig. 1	1-3, 5-10, 12-16, 18-21
Y		4, 11, 17
Y	US 7118528 B1 (GREGORY PISKUN) 10.10.2006, abstract, col. 12, lines 43-67, col. 13, lines 1-7, fig. 7A, 7B, 7C	4, 11, 17
A	US 2013/0226198 A1 (JAN P. KAMLER) 29.08.2013	1-21
☐ 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	“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 document 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
“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 25 July 2016 (25.07.2016)		Date of mailing of the international search report 11 August 2016 (11.08.2016)
Name and mailing address of the ISA/RU: Federal Institute of Industrial Property, Berezhkovskaya nab., 30-1, Moscow, G-59, GSP-3, Russia, 125993 Facsimile No: (8-495) 531-63-18, (8-499) 243-33-37		Authorized officer E. Nosova Telephone No. 495-531-64-81