## (19) World Intellectual Property Organization International Bureau





# (43) International Publication Date 15 May 2003 (15.05.2003)

### **PCT**

# (10) International Publication Number WO 03/039405 A3

(51) International Patent Classification<sup>7</sup>: A61M 29/00

(21) International Application Number: PCT/US02/36153

(22) International Filing Date:

11 November 2002 (11.11.2002)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

60/344,661	9 November 2001 (09.11.2001)	US
60/345,333	9 November 2001 (09.11.2001)	US
60/341,092	12 December 2001 (12.12.2001)	US
60/347,500	11 January 2002 (11.01.2002)	US
60/413,078	24 September 2002 (24.09.2002)	US
10/290,099	7 November 2002 (07.11.2002)	US

- (71) Applicant: RUBICON MEDICAL, INC. [US/US]; 2064 West Alexander, Sandy, UT 84093 (US).
- (72) Inventors: LINDER, Richard, J.; 7810 Chatsworth Court, Sandy, UT 84093 (US). EDMISTON, Daryl, R.; 9425 South Riverside Drive, No. 1811, Sandy, UT 84070 (US). JOHNSON, Steven, W.; 7684 South 2250 West, West Jordan, UT 84084 (US). SCHLEGEL, Karri, L.; 835 East 600 South, Salt Lake City, UT 84102 (US).

- (74) Agents: ROY, Fraser, D. et al.; Workman, Nydegger & Seeley, 1000 Eagle Gate Tower, 60 East South Temple, Salt Lake City, UT 84111 (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, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, 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, IE, IT, LU, MC, NL, PT, SE, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

#### Published:

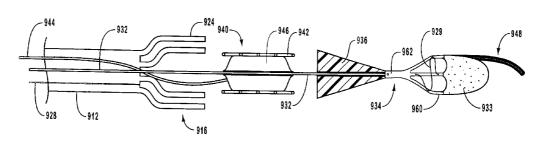
with international search report

(88) Date of publication of the international search report: 30 October 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: STENT DELIVERY DEVICE WITH EMBOLIC PROTECTION





(57) Abstract: A delivery device adapted to insert and deploy a stent within a body lumen. The delivery device includes a guide member adapted to retain a dilation assembly and a stent within a lumen thereof until the stent is tobe deployed into the body lumen. The delivery device is configured to enable simultaneous insertion of the guide member, dilation assembly, stent, and optional guidewire within a body lumen. Following deploying the stent, the delivery device can be removed, while providing the capacility of optionally maintaining the guide member or the guidewire to function or act as an exchange wire for additional surgical devices.

## INTERNATIONAL SEARCH REPORT

International application No.
PCT/US02/36153

A. CLASSIFICATION OF SUBJECT MATTER  IPC(7) :A61M 29/00 US CL :606/192-200; 623/1.11 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. : 606/192-200; 623/1.11  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) NONE			
C. DOCUMENTS CONSIDERED TO BE RELEVANT			
Category* Citation of document, with indication, where a	ppropriate, of the relevant passages Relevant to claim No.		
A US 6,129,739 A (KHOSRAVI) 10 Oc	etober 2000, entire document. 1-26		
A US 6,179,859 B1 (BATES et al) 30 Ja	nuary 2001, entire document. 1-26		
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			
"A" document defining the general state of the art which is not considered the principle or theory underlying the invention to be of particular relevance			
"E" earlier document published on or after the international filing date  "L" document which may throw doubts on priority claim(s) or which is	"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		
cited to establish the publication date of another citation or other special reason (as specified)  "O" document referring to an oral disclosure, use, exhibition or other	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		
means obvious to a person skilled in the art  "P" document published prior to the international filing date but later "%" document member of the same patent family			
Date of the actual completion of the international search  Date of mailing of the international search report			
21 MARCH 2003	1.4 MAY 2003		
Name and mailing address of the ISA/US Commissioner of Patents and Trademarks Box PCT Washington, D.C. 20231 Facsimile No. (703) 305-3230	Authorized officer  KEVIN TRUONG Diane Amith f Telephone No. (703) 308-0858		