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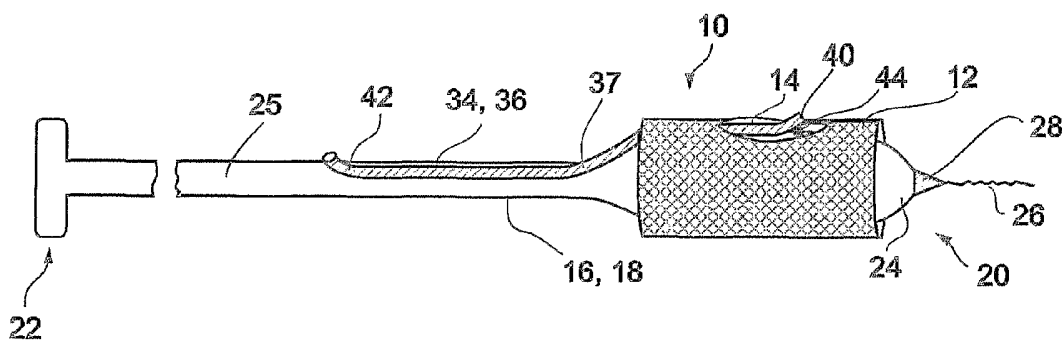
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(54) Title: STENT DELIVERY DEVICES



(57) Abstract: A stent delivery system for treating lesions is provided. The system is suitable for treatment of bifurcation lesions, has a low profile and provides substantially predictable translational and rotational positioning. In one embodiment, the system includes a fixed wire balloon catheter and a partially attached guidewire lumen, wherein the guidewire lumen is attached to the catheter at a crotch point. The location of the crotch point is predetermined so as to provide substantially predictable positioning. Several embodiments of the system are described for various types of lesions and vessel configurations.

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## INTERNATIONAL SEARCH REPORT

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<b>A. CLASSIFICATION OF SUBJECT MATTER</b> IPC(8): A61M 29/02 US CL.: 623/1.11; 604/101.01 According to International Patent Classification (IPC) or to both national classification and IPC		
<b>B. FIELDS SEARCHED</b> Minimum documentation searched (classification system followed by classification symbols) 623/1.11; 604/96.01, 101.01, 101.03, 101.05; 606/108, 192, 194 A61M25/00, 25/09, 25/10; A61M29/00, 29/02 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) Micropatent, Delphion, Dialog Pro, Ip.com		
<b>C. DOCUMENTS CONSIDERED TO BE RELEVANT</b>		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6,579,312 B2 (WILSON et al) 17 June 2003 (17.06.2003) columns 13-18, figures 1-20C	14-19, 22-24, 26, 29-31, 41, 42, 53, 55, 60, 61, 64
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Y		1-13, 20-21, 25, 27, 28, 32-40, 43-52, 54, 62, 63, 65, 66
Y	US 6,375,660 B1 (FISCHELL et al) 23 April 2002 (23.04.2002), title and abstract	1-11, 13, 35, 43, 44, 47, 62, 63
Y	US 5,685,847 A (BARRY) 11 November 1997 (11.11.1997) figure 6, claim 28	10, 11
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Y	US 2001/0049548 A1 (VARDI et al) 06 December 2001 (06.12.2001) figures 1 and 6	32-38, 54
Y	US 2002/0091434 A1(CHAMBERS) 11 July 2002 (11.07.2002) figure 5	20, 21, 39, 40
Y	US 2003/0055483 A1 (GUMM) 20 March 2003 (20.03.2003) entire document	14-19, 22-26, 29-31, 41, 42, 53, 55, 60, 61, 64
Y, P	US 2004/0172121 A1 (EIDENSCHINK et al) 02 September 2004 (02.09.2004) entire document	1-55 and 60-63
A, P	US 2005/0015135 A1 (SHANLEY) 20 January 2005 (20.01.2005) entire document	1-55 and 60-63
<input checked="" type="checkbox"/> Further documents are listed in the continuation of Box C.		<input type="checkbox"/> See patent family annex.
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Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A, P	US 2004/0138734 A1 (CHOBOTOV et al) 15 July 2004 (15.07.2004) see entire document	1-55 and 60-63
A, P	US 2004/0098087 A1 (MADRID et al) 20 May 2004 (20.05.2004) entire document	1-55 and 60-63
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