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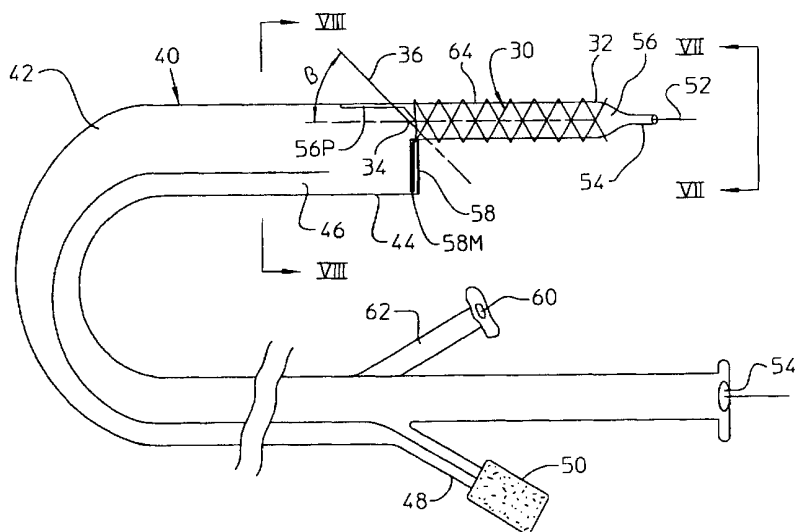
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(72) Inventor: POWER, John, A. [US/US]; 202 Springhouse Lane, Pittsburgh, PA 15238 (US). For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: OSTIAL BIFURCATION LESION STENTING CATHETER



(57) Abstract: A stent deploying catheter and method for placing a stent in a branching anatomic duct commencing at the ostium includes a distal portion containing a forward facing abutment surface laterally offset from a proximal end of a forward extending stent carrier. The forward facing abutment surface (58) overlies the radio opaque marker (58M) to aid in the orientation and placement of the stent (30). The forwarding extending stent carrier (56) in one embodiment includes a catheter balloon and having a length sufficient for supporting and deploying a stent to treat an ostial bifurcation lesion. The stent carrier in another embodiment includes a sheathing (56A) which can be retracted for deploying a self-expanding stent (30A). An actuator wire extends along the catheter for angularly displacing the distal end portion in a body vessel to align the abutment surface with a common vessel wall at the crux of a vessel bifurcation and align the stent carrier along the site of the ostial bifurcation lesion. A guide wire lumen (54) is also provided for the introduction and guiding of the distal end portion along the vessel.



WO 01/49342 A3

INTERNATIONAL SEARCH REPORT

International application No.
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A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : A61F 11/00
US CL : 606/108, 195

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. : 606/108, 195, 198, 191, 192, 113,1; 604/104; 128/898; 623/1.15

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.
A, P	US 6,056,775 A (Borghi et al) 2 May 2000, see entire document	1-16
A, P	US 6,117,156 A (Richter et al.) 12 September 2000, see entire document	1-16
A, P	US 6,048,361 A (Von Oepen) 11 April 2000, see entire document	1-16
A	US 5,776,101 A (Goy) 7 July 1998, see entire document	1-16
A	US 5,772,669 A (Vrba) 30 June 1998, see entire document	1-16
A	US 5,749,825 A (Fischell et al.) 12 May 1998, see entire document	1-16

Further documents are listed in the continuation of Box C. See patent family annex.

<p>* Special categories of cited documents:</p> <p>*A* document defining the general state of the art which is not considered to be of particular relevance</p> <p>*E* earlier document published on or after the international filing date</p> <p>*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)</p> <p>*O* document referring to an oral disclosure, use, exhibition or other means</p> <p>*P* document published prior to the international filing date but later than the priority date claimed</p>	<p>*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</p> <p>*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</p> <p>*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</p> <p>* & * document member of the same patent family</p>
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14 MAY 2001

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