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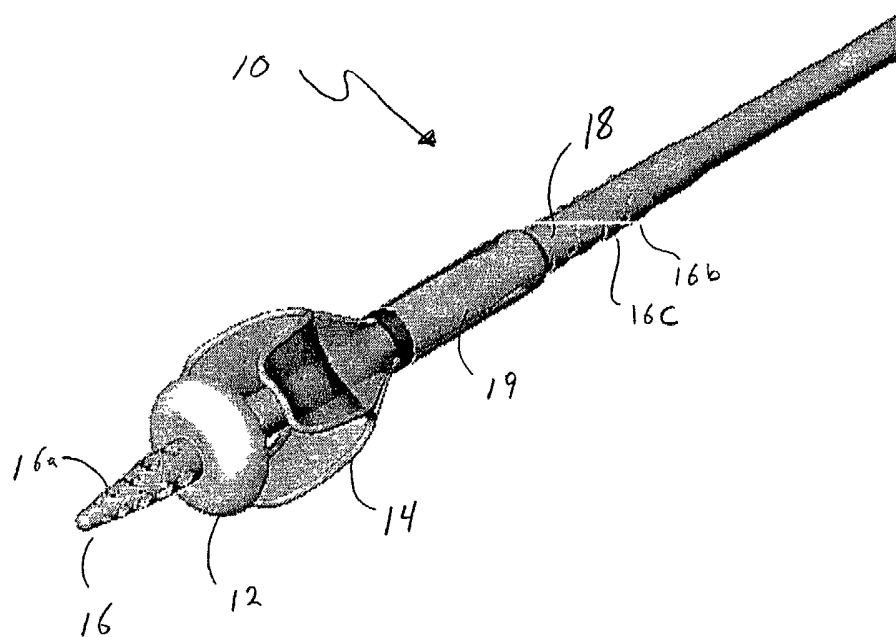
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[Continued on next page]

(54) Title: DEVICES AND METHODS FOR PERCUTANEOUSLY TREATING AORTIC VALVE STENOSIS



(57) Abstract: Devices and methods for their use in percutaneously increasing the aortic valve flow of a stenotic aortic valve are provided. The subject devices include an aortic valve isolation element (10), a shunt element (16) and an aortic valve flushing element (not shown). Also provided are systems and kits that include the subject devices and can be employed in practicing the subject methods. The subject devices, methods, systems and kits find use in treating conditions associated with the presence of stenotic aortic valves.

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INTERNATIONAL SEARCH REPORT

International application No.
PCT/US04/22800

A. CLASSIFICATION OF SUBJECT MATTER
 IPC(7) : A61M 29/00
 US CL : 604/101.01
 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. : 604/101.01, 96.01, 99.02-99.04, 101.03, 101.05

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)
 Please See Continuation Sheet

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4,573,966 (Weikl et al) 04 March 1986 (04.03.1986), figure 1	1-5, 7-10, 12, 13, 29-31
Y		15-28
Y	US 2001/0016750 A1 (Malecki et al) 23 August 2001 (23.08.03), paragraph 0107.	6
Y	US 6,048,331 (Tsugita et al) 11 April 2000 (11.04.2000), column 19, lines 38-59.	11
Y	US 6,350,252 (Ray et al) 26 February 2002 (26.02.2002), figure 44	14
Y	US 5,458,574 (Machold et al) 17 October 1995 (17.10.1995), figure 7	15-28

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 date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"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
"E" earlier application or patent published on or after the international filing date	"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
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"O" document referring to an oral disclosure, use, exhibition or other means		
"P" document published prior to the international filing date but later than the priority date claimed		

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INTERNATIONAL SEARCH REPORT

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Continuation of B. FIELDS SEARCHED Item 3:

EAST database. Search terms: valve isolation element, stenosis, aortic valve, occlusion, dual or multiple balloon, ventricle