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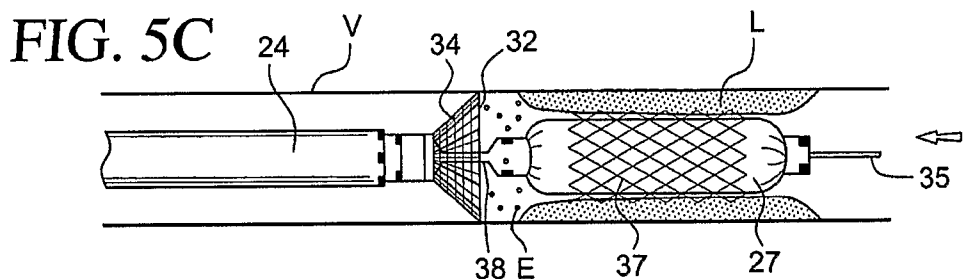
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(54) Title: INTERVENTIONAL CATHETER FOR RETROGRADE USE HAVING EMBOLIC PROTECTION CAPABILITY AND METHODS OF USE



(57) Abstract: Interventional catheters are disclosed for use in performing diagnostic and therapeutic procedures in vessels that are accessed retrograde to blood flow. The catheters include an elongated shaft slidably disposed within a sheath, a distal region having an end effector and a filter disposed proximal to the end effector to capture emboli liberated during the diagnostic or therapeutic procedure. The filter includes a plurality of struts that cooperate with an exterior surface of the catheter to define a reservoir to retain captured emboli, the reservoir configured so that advancement of the sheath contracts the filter without squeezing or dislodging captured emboli beyond a distal end of the filter.

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US2006/048921

<p>A. CLASSIFICATION OF SUBJECT MATTER IPC(8) - A61M 29/00 (2008.04) USPC - 606/200 According to International Patent Classification (IPC) or to both national classification and IPC</p>														
<p>B. FIELDS SEARCHED</p> <p>Minimum documentation searched (classification system followed by classification symbols) IPC(8) - A61M 29/00 (2008.04) USPC - 606/200</p> <p>Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched</p> <p>Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) PatBase</p>														
<p>C. DOCUMENTS CONSIDERED TO BE RELEVANT</p> <table border="1"> <thead> <tr> <th>Category*</th> <th>Citation of document, with indication, where appropriate, of the relevant passages</th> <th>Relevant to claim No.</th> </tr> </thead> <tbody> <tr> <td>X ---</td> <td>US 6,042,598 A (TSUGITA et al) 28 March 2000 (28.03.2000) entire document</td> <td>1-7, 10, 15-19, 21</td> </tr> <tr> <td>Y</td> <td></td> <td>8, 9, 11-14, 20, 22-25</td> </tr> <tr> <td>Y</td> <td>US 2002/0095172 A1 (MAZZOCCHI et al) 18 July 2002 (18.07.2002) entire document</td> <td>8, 9, 11-14, 20, 22-25</td> </tr> </tbody> </table>			Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.	X ---	US 6,042,598 A (TSUGITA et al) 28 March 2000 (28.03.2000) entire document	1-7, 10, 15-19, 21	Y		8, 9, 11-14, 20, 22-25	Y	US 2002/0095172 A1 (MAZZOCCHI et al) 18 July 2002 (18.07.2002) entire document	8, 9, 11-14, 20, 22-25
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<p>Date of the actual completion of the international search</p> <p>08 October 2008</p>		<p>Date of mailing of the international search report</p> <p>22 OCT 2008</p>												
<p>Name and mailing address of the ISA/US</p> <p>Mail Stop PCT, Attn: ISA/US, Commissioner for Patents P.O. Box 1450, Alexandria, Virginia 22313-1450 Facsimile No. 571-273-3201</p>		<p>Authorized officer:</p> <p>Blaine R. Copenheaver</p> <p>PCT Helpdesk: 571-272-4300 PCT OSP: 571-272-7774</p>												