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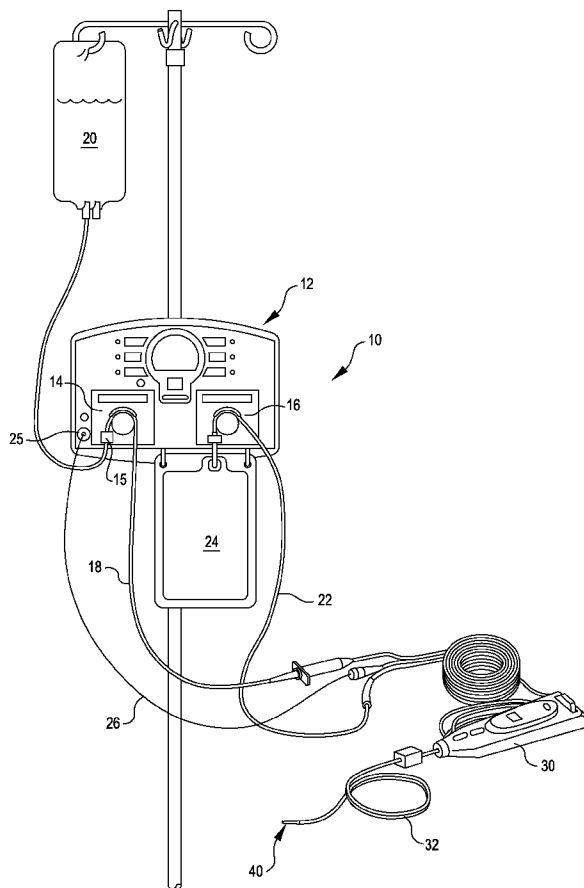
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[Continued on next page]

(54) Title: INTERVENTIONAL CATHETERS



(57) Abstract: An interventional catheter incorporates an advanceable, rotatable operating head having a fixed blade cutter assembly and an adjustable blade cutter assembly. Aspiration ports and/or infusion ports providing access to a sealed lumen and aspiration and infusion systems are provided on, or in proximity to, the operating head. A shearing device may be provided within an aspiration port to further reduce the size of unwanted material during removal from a body lumen. A drive shaft provides rotation and torque from a drive system to the cutter assemblies and shearing device, and may be coupled to the cutter assembly by means of an articulating bearing assembly.

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<p>A. CLASSIFICATION OF SUBJECT MATTER IPC(8) - A61B 17/22 (2007.10) USPC - 606/159 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) - A61B 17/22 (2007.10) USPC - 606/159</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) MicroPatent</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>WO 2004/080345 A2 (WULFMAN et al) 23 September 2004 (23.09.2004) entire document</td> <td>13-20, 26-32, 34, 41-44</td> </tr> <tr> <td>-</td> <td></td> <td></td> </tr> <tr> <td>Y</td> <td>WO 2004/080507 A2 (WULFMAN et al) 23 September 2004 (23.09.2004) entire document</td> <td>33, 35-40, 45-47</td> </tr> <tr> <td>Y</td> <td>WO 2004/080507 A2 (WULFMAN et al) 23 September 2004 (23.09.2004) entire document</td> <td>45-54</td> </tr> <tr> <td>Y</td> <td>US 6,565,588 B1 (CLEMENT et al) 20 May 2003 (20.05.2003) entire document</td> <td>1-12, 21-25, 33, 35-40</td> </tr> <tr> <td>Y</td> <td>US 6,503,261 B1 (BRUNEAU et al) 07 January 2003 (07.01.2003) entire document</td> <td>1-12, 21-25</td> </tr> <tr> <td>Y</td> <td>US 6,666,874 B2 (HEITZMANN et al) 23 December 2003 (23.12.2003) entire document</td> <td>4-5, 22-23, 48-54</td> </tr> <tr> <td>Y</td> <td>US 6,063,069 (CRAGG et al) 16 May 2000 (16.05.2000) entire document</td> <td>53</td> </tr> </tbody> </table>			Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.	X	WO 2004/080345 A2 (WULFMAN et al) 23 September 2004 (23.09.2004) entire document	13-20, 26-32, 34, 41-44	-			Y	WO 2004/080507 A2 (WULFMAN et al) 23 September 2004 (23.09.2004) entire document	33, 35-40, 45-47	Y	WO 2004/080507 A2 (WULFMAN et al) 23 September 2004 (23.09.2004) entire document	45-54	Y	US 6,565,588 B1 (CLEMENT et al) 20 May 2003 (20.05.2003) entire document	1-12, 21-25, 33, 35-40	Y	US 6,503,261 B1 (BRUNEAU et al) 07 January 2003 (07.01.2003) entire document	1-12, 21-25	Y	US 6,666,874 B2 (HEITZMANN et al) 23 December 2003 (23.12.2003) entire document	4-5, 22-23, 48-54	Y	US 6,063,069 (CRAGG et al) 16 May 2000 (16.05.2000) entire document	53
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<p>Name and mailing address of the ISA/US 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: Blaine R. Copenheaver PCT Helpdesk: 571-272-4300 PCT OSP: 571-272-7774</p>																											