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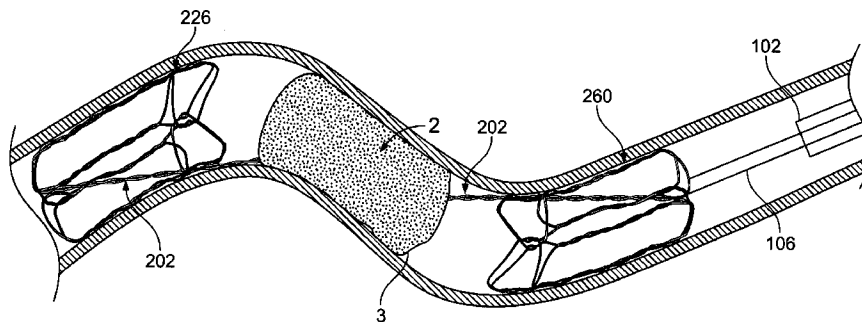


FIG. 6C

(57) Abstract: The devices and methods described herein relate to improved structures for removing obstructions from body lumens. Such devices have applicability in through-out the body, including clearing of blockages within the vasculature, by addressing the factional resistance on the obstruction prior to attempting to translate and/or mobilize the obstruction within the body lumen.



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INTERNATIONAL SEARCH REPORT

International application No.

PCT/IB 08/02373

A. CLASSIFICATION OF SUBJECT MATTER IPC(8) - A61B 17/221 (2009.01) USPC - 606/159 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) IPC(8) - A61B 17/221 (2009.01) USPC - 606/159 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched IPC(8) - A61B 17/21, 221 (2009.01) USPC - 606/127, 159, 200 (Text Search) Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) PubWEST (PGPB, USPT, USOC, EPAB, JPAB); DialogPRO (Engineering) and Google Scholar. Search Terms: vasculature, blood vessel, artery, vein, obstruction, clot, plaque, thrombus, captur\$, surroun\$, secur\$, engulf, engulf\$, encapsulat\$, cover, cover\$, envelop, envelop\$, ensnar\$, remov\$, catheter, wire, portion, surface, open																																		
C. DOCUMENTS CONSIDERED TO BE RELEVANT																																		
<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 2004/0133232 A1 (ROSENBLUTH et al.) 08 July 2004 (08.07.2004) fig 5, 8B, 8C, 8E, 24A, 24D; para [0015], [0116], [0117], [0120], [0132]-[0134], [0148]-[0151], [0181], [0191], [0207]-[0210].</td> <td>1, 4, 5, 9, 12, 16-18, 20, 23-32, 40-45, 48, 50, 53-58, 60-62, 65-67, 74-76, 80-82, 84-92 and 94-96</td> </tr> <tr> <td>---</td> <td></td> <td></td> </tr> <tr> <td>Y</td> <td></td> <td>2, 3, 6-8, 10, 11, 13-15, 19, 21, 22, 33-39, 46, 47, 49, 51, 52, 59, 63, 64, 68-73, 77-79, 83 and 93</td> </tr> <tr> <td>Y</td> <td>US 2007/0198029 A1 (MARTIN et al.) 23 August 2007 (23.08.2007) fig 3A, 3B, 3C, 4A, 4B; para [0002], [0012], [0014], [0015], [0018], [0021], [0057], [0061], [0070]-[0072].</td> <td>2, 3, 13-15, 35, 36, 64, 70, 71 and 93</td> </tr> <tr> <td>Y</td> <td>US 2006/0195137 A1 (SEPETKA et al.) 31 August 2006 (31.08.2006) fig 68, 69, 80; para [0024], [0191], [0194].</td> <td>6, 19, 52, 59, 79 and 83</td> </tr> <tr> <td>Y</td> <td>US 5,968,090 A (RATCLIFF et al.) 19 October 1999 (19.10.1999) fig 3, 4; col 3, ln 52-62.</td> <td>7, 8, 46, 47, 49 and 63</td> </tr> <tr> <td>Y</td> <td>US 7,182,771 B1 (HOUSER et al.) 27 February 2007 (27.02.2007) fig 15; col 2, ln 8-16; col 13, ln 4-22.</td> <td>10, 11, 51, 77 and 78</td> </tr> <tr> <td>Y</td> <td>US 2006/0190070 A1 (DIECK et al.) 24 August 2006 (24.08.2006) para [0075].</td> <td>21, 22, 37-39, 72 and 73</td> </tr> <tr> <td>Y</td> <td>US 2003/0195556 A1 (STACK et al.) 16 October 2003 (16.10.2003) para [0040], [0041].</td> <td>33, 34, 68 and 69</td> </tr> <tr> <td>Y</td> <td>US 5,458,375 A (ANSPACH et al.) 17 October 1995 (17.10.1995) col 1, ln 47-57; col 1, ln 59-67.</td> <td>63</td> </tr> </tbody> </table>	Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.	X	US 2004/0133232 A1 (ROSENBLUTH et al.) 08 July 2004 (08.07.2004) fig 5, 8B, 8C, 8E, 24A, 24D; para [0015], [0116], [0117], [0120], [0132]-[0134], [0148]-[0151], [0181], [0191], [0207]-[0210].	1, 4, 5, 9, 12, 16-18, 20, 23-32, 40-45, 48, 50, 53-58, 60-62, 65-67, 74-76, 80-82, 84-92 and 94-96	---			Y		2, 3, 6-8, 10, 11, 13-15, 19, 21, 22, 33-39, 46, 47, 49, 51, 52, 59, 63, 64, 68-73, 77-79, 83 and 93	Y	US 2007/0198029 A1 (MARTIN et al.) 23 August 2007 (23.08.2007) fig 3A, 3B, 3C, 4A, 4B; para [0002], [0012], [0014], [0015], [0018], [0021], [0057], [0061], [0070]-[0072].	2, 3, 13-15, 35, 36, 64, 70, 71 and 93	Y	US 2006/0195137 A1 (SEPETKA et al.) 31 August 2006 (31.08.2006) fig 68, 69, 80; para [0024], [0191], [0194].	6, 19, 52, 59, 79 and 83	Y	US 5,968,090 A (RATCLIFF et al.) 19 October 1999 (19.10.1999) fig 3, 4; col 3, ln 52-62.	7, 8, 46, 47, 49 and 63	Y	US 7,182,771 B1 (HOUSER et al.) 27 February 2007 (27.02.2007) fig 15; col 2, ln 8-16; col 13, ln 4-22.	10, 11, 51, 77 and 78	Y	US 2006/0190070 A1 (DIECK et al.) 24 August 2006 (24.08.2006) para [0075].	21, 22, 37-39, 72 and 73	Y	US 2003/0195556 A1 (STACK et al.) 16 October 2003 (16.10.2003) para [0040], [0041].	33, 34, 68 and 69	Y	US 5,458,375 A (ANSPACH et al.) 17 October 1995 (17.10.1995) col 1, ln 47-57; col 1, ln 59-67.	63	<input type="checkbox"/> Further documents are listed in the continuation of Box C. <input type="checkbox"/>
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