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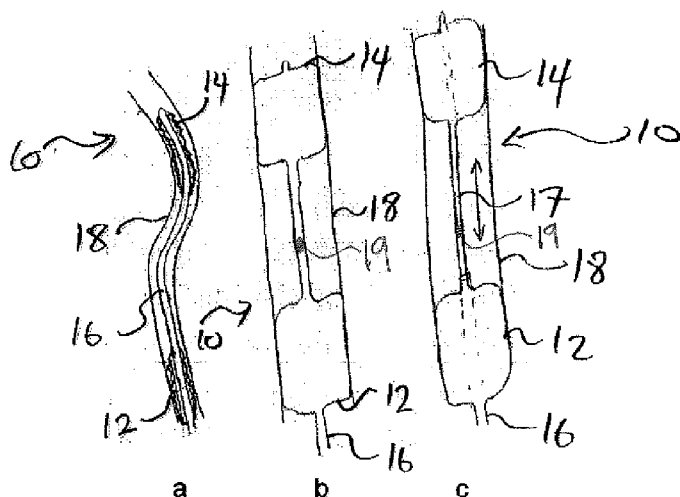
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[Continued on next page]

(54) Title: SYSTEMS AND METHODS FOR ENDOLUMINAL VALVE CREATION

Figure 1:



(57) Abstract: The present application pertains generally to medical systems and methods for creation of an autologous tissue valves within a mammalian body. In some embodiments, a system for creating an endoluminal valve from a blood vessel wall is provided. The system includes a tubular assembly having a longitudinal axis, a proximal end, a distal portion with a distal end, and a first lumen extending from the proximal end to a distal port located proximate the distal portion. The distal portion can have a supporting surface that extends in a longitudinal direction and is offset from a surface of the tubular assembly proximal the distal port. The system can further include a tissue dissection probe disposed within the first lumen.

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<p>A. CLASSIFICATION OF SUBJECT MATTER IPC(8) - A61B 17/3209 (2012.01) 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 17/3209 (2012.01) USPC - 606/159</p> <p>Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched 128/897, 898 606/1, 167, 170, 185, 190</p> <p>Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) PubWest (PGPB, USPT, EPAB, JPAB); Google Search Terms: Create, make, valve, artery, vein, vessel, vascular, leaflet, flap, hydrodissect, dissect, access, inject, implant, insert, needle, media, intima, subintimal, wall, intravascular, intraluminal, probe</p>																																
<p>C. DOCUMENTS CONSIDERED TO BE RELEVANT</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:10%;">Category*</th> <th style="width:70%;">Citation of document, with indication, where appropriate, of the relevant passages</th> <th style="width:20%;">Relevant to claim No.</th> </tr> </thead> <tbody> <tr> <td>Y</td> <td>US 2010/0152682 A1 (MAUCH et al.) 17 June 2010 (17.06.2010) Entire document, especially Abstract, para [0060]-[0064] and FIGS. 15-21.</td> <td>1-40</td> </tr> <tr> <td>Y</td> <td>US 5,836,945 A (PERKINS) 17 November 1998 (17.11.1998) Entire document, especially Abstract, col 5, ln 13-24 and FIG. 3.</td> <td>1-40</td> </tr> <tr> <td>Y</td> <td>US 2006/0271090 A1 (SHAKED et al.) 30 November 2006 (30.11.2006) Entire document, especially Abstract, para [0073]-[0075] and FIGS. 6-7.</td> <td>17</td> </tr> <tr> <td>Y</td> <td>US 7,008,411 B1 (MANDRUSOV et al.) 07 March 2006 (07.03.2006) Abstract, col 15, ln 30 to col 16, ln 12 and FIG. 9C.</td> <td>21</td> </tr> <tr> <td>Y</td> <td>US 2006/0136045 A1 (FLAGLE et al.) 22 June 2006 (22.06.2006) Entire document, especially Abstract, para [0005]-[0010], para [0043]-[0047] and FIGS. 5-9.</td> <td>34-37</td> </tr> <tr> <td>A</td> <td>RU 2160057 C2 (MAGOMEDOV et al.) 12 October 2000 (12.10.2000) Entire document.</td> <td>1-40</td> </tr> <tr> <td>A</td> <td>US 6,902,576 B2 (DRASLER et al.) 07 June 2005 (07.06.2005) Entire document.</td> <td>1-40</td> </tr> <tr> <td>A</td> <td>US 2009/0209910 A1 (KUGLER et al.) 20 August 2009 (20.08.2009) Entire document.</td> <td>1-40</td> </tr> <tr> <td>A</td> <td>US 7,273,469 B1 (CHAN et al.) 25 September 2007 (25.09.2007) Entire document</td> <td>1-40</td> </tr> </tbody> </table>			Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.	Y	US 2010/0152682 A1 (MAUCH et al.) 17 June 2010 (17.06.2010) Entire document, especially Abstract, para [0060]-[0064] and FIGS. 15-21.	1-40	Y	US 5,836,945 A (PERKINS) 17 November 1998 (17.11.1998) Entire document, especially Abstract, col 5, ln 13-24 and FIG. 3.	1-40	Y	US 2006/0271090 A1 (SHAKED et al.) 30 November 2006 (30.11.2006) Entire document, especially Abstract, para [0073]-[0075] and FIGS. 6-7.	17	Y	US 7,008,411 B1 (MANDRUSOV et al.) 07 March 2006 (07.03.2006) Abstract, col 15, ln 30 to col 16, ln 12 and FIG. 9C.	21	Y	US 2006/0136045 A1 (FLAGLE et al.) 22 June 2006 (22.06.2006) Entire document, especially Abstract, para [0005]-[0010], para [0043]-[0047] and FIGS. 5-9.	34-37	A	RU 2160057 C2 (MAGOMEDOV et al.) 12 October 2000 (12.10.2000) Entire document.	1-40	A	US 6,902,576 B2 (DRASLER et al.) 07 June 2005 (07.06.2005) Entire document.	1-40	A	US 2009/0209910 A1 (KUGLER et al.) 20 August 2009 (20.08.2009) Entire document.	1-40	A	US 7,273,469 B1 (CHAN et al.) 25 September 2007 (25.09.2007) Entire document	1-40
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<p>Date of the actual completion of the international search</p> <p>23 July 2012 (23.07.2012)</p>		<p>Date of mailing of the international search report</p> <p align="center">10 AUG 2012</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 align="center">Lee W. Young</p> <p>PCT Helpdesk: 571-272-4300 PCT OSP: 571-272-7774</p>																														