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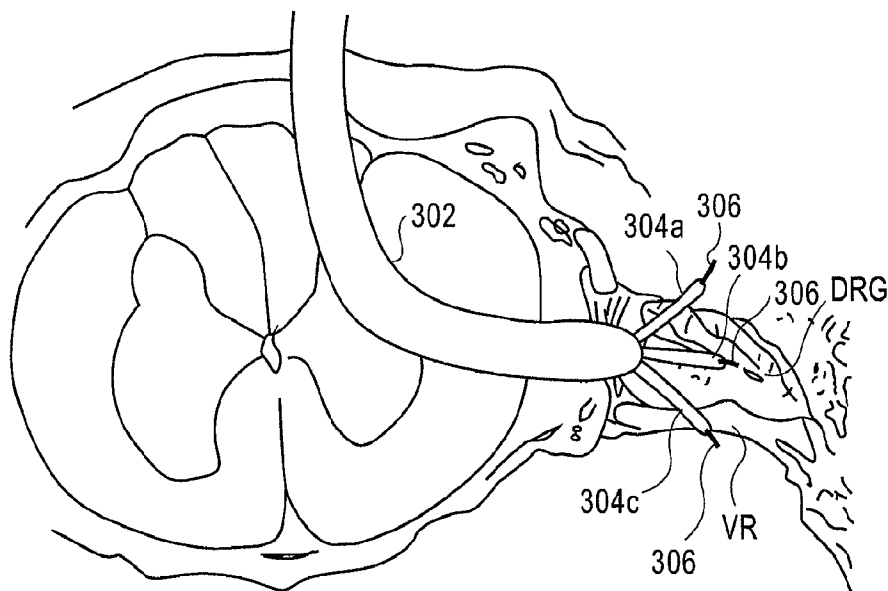
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[Continued on next page]

(54) **Title:** EXPANDABLE STIMULATION LEADS AND METHODS OF USE



(57) **Abstract:** Devices, systems and methods are provided for stimulating a target tissue, particularly a dorsal root ganglion. The devices and systems have one or more electrodes, wherein the electrodes are positionable in disperse locations within the specific target area. In some embodiments, the position of at least some of the electrodes is adjustable and optionally independently positionable. Some or all of the electrodes may be used to stimulate the desired tissue, such as to stimulate a specific portion of the target area. Or, the one or more electrodes that fall near the target tissue may be used to stimulate the tissue while the other electrodes are not used. When stimulating the dorsal root ganglion, sensory pain signals are blocked providing relief to the patient.

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<b>B FIELDS SEARCHED</b> Minimum documentation searched (classification system followed by classification symbols) IPC(8)- A61N 1/00 (2008 04) USPC- 607/46, 607/1 17				
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched USPC- 128/898, 128/899				
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) Electronic Databases Searched PubWEST(PGPB,USPT,EPAB,JPAB), Google, Google Scholar, Google Patents catheter, electrode\$, lead\$, stimulatS, pointed, multiple, sheathS, dorsal root ganglS				
<b>C DOCUMENTS CONSIDERED TO BE RELEVANT</b>				
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No		
X	US 6,353,762 B1 (Baudino et al) 05 Mar 2002 (05 03 2002), Figs 3, 4, 8, 9A, 9B, 12A, 12B, col 6, ln 33-46, col 5, ln 52-58, col 5, ln 59 to col 6, ln 27, col 2, ln 37-62	15-18, 20, 22, 26-29		
Y		1-14, 19, 21, 23-25, 30		
Y	US 2006/0052839 A1 (Kim et al) 09 Mar 2006 (09 03 2006), Fig 8A, 9A, para [0100]-[0106]	1-14, 23-25		
Y	US 2004/0122360 A1 (Waldhauser et al) 24 Jun 2004 (24 06 2004), Fig 1, Abstract	19		
Y	US 6,298,256 B1 (Meyer) 02 Oct 2001 (02 10 2001), Fig 12A, col 5, ln 65-67	21		
Y	US 2002/0077684 A1 (Clemens et al) 20 Jun 2002 (20 06 2002), para [0042], Fig 4	30		
<input type="checkbox"/> Further documents are listed in the continuation of Box C				
<b>D</b> <table style="width:100%; border: none;"> <tr> <td style="width:50%; border: none;"> <ul style="list-style-type: none"> <li>• Special categories of cited documents</li> <li>"A" document defining the general state of the art which is not considered to be of particular relevance</li> <li>"E" earlier application or patent but published on or after the international filing date</li> <li>"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)</li> <li>"O" document referring to an oral disclosure, use, exhibition or other means</li> <li>"P" document published prior to the international filing date but later than the priority date claimed</li> </ul> </td> <td style="width:50%; border: none;"> <ul style="list-style-type: none"> <li>"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</li> <li>"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</li> <li>"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</li> <li>"&amp;" document member of the same patent family</li> </ul> </td> </tr> </table>			<ul style="list-style-type: none"> <li>• Special categories of cited documents</li> <li>"A" document defining the general state of the art which is not considered to be of particular relevance</li> <li>"E" earlier application or patent but published on or after the international filing date</li> <li>"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)</li> <li>"O" document referring to an oral disclosure, use, exhibition or other means</li> <li>"P" document published prior to the international filing date but later than the priority date claimed</li> </ul>	<ul style="list-style-type: none"> <li>"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</li> <li>"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</li> <li>"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</li> <li>"&amp;" document member of the same patent family</li> </ul>
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