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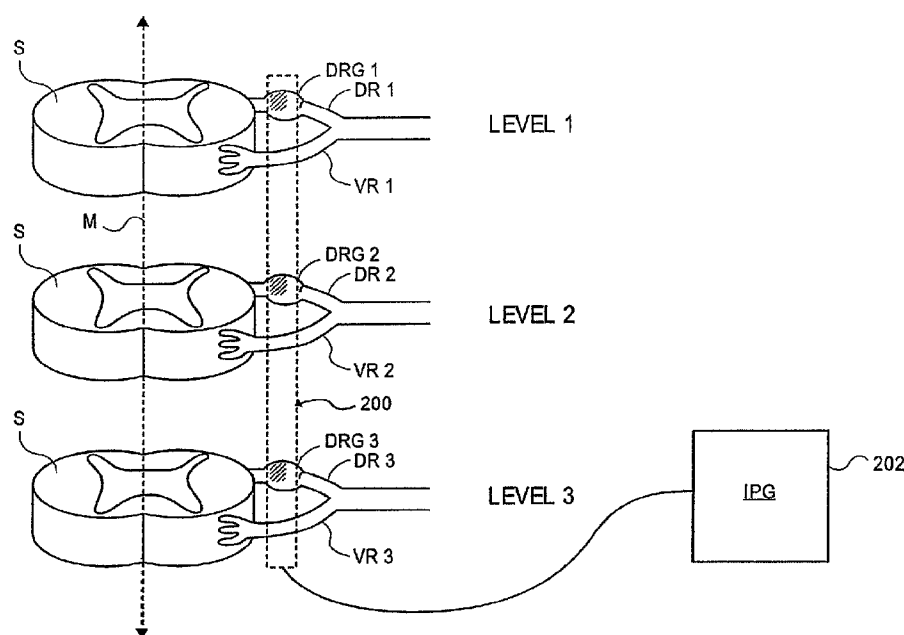
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(54) Title: GROUPED LEADS FOR SPINAL STIMULATION



(57) Abstract: Devices, systems and methods are provided for simultaneously stimulating the spinal anatomy at various target locations, such as spinal levels, along the spinal cord. In some embodiments, the devices, systems and methods stimulate the various spinal levels at specific nerve anatomies, such as the dorsal root DR or more specifically the dorsal root ganglion DRG. Optionally, the devices, systems and methods may be used to stimulate a single DRG or other anatomies.

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INTERNATIONAL SEARCH REPORT

International application No
PCT/US 07/86693

A. CLASSIFICATION OF SUBJECT MATTER

IPC(8) - A61 N 1/00 (2008.04)

USPC - 607/117

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) A61N 1/00 (2008 04)

USPC 607/1 17

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
WEST (PGPB,USPT,EPAB,JPAB) telescope, electrode, neuron, elongate, lumen, tubular, dorsal root ganglion, energize
esp@cenet spinal modulation, imran.Google Scholar dorsal root ganglion, lead, two electrodes, lead, stimulation, nerve, tunneling,
lumen, resistance, rotation, Google Web dorsal root ganglion, lead, series

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
Y	US 2006/0052839 A1 (KIM et al) 9 March 2006 (09 03 2006), abstract, para [0014], [0015], [0019], [0055], [0077], [0080], [0082], [0083], [0086], [0106], [01 17], [01 18], [01 19], [0163], [0164], [0184], Fig 14A, Fig 36	1, 2, 3, 4, 13 - 22
Y	WO 2006/084635 A2 (RAMAO-DU ARTE, DANIELS), 17 August 2006 (17 08 2006), pg 5, ln 25-26, pg 24, ln 6-7, pg 33, ln 27-29, pg 64, ln 6	1, 2, 3, 4, 8, 12
Y	US 2006/02061 18 A1 (KIM et al) 11 September 2006 (14 09 2006), para [0004], [0010], [001 1], [0015], [0087], [0103], [0104], [0105], [0145], [0163], [0180], Fig 25J, Fig 25K, Fig 25L	5 - 22
Y	US 6,902,547 B2 (AVES et al) 7 June 2005 (07 06 2005), col 9, ln 39-41, col 17, ln 3-7	5-14



Further documents are listed in the continuation of Box C

D

* Special categories of cited documents

"A" document defining the general state of the art which is not considered to be of particular relevance

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"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

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"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

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Date of the actual completion of the international search

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 2005/0090885 A1 (HARRIS et al.) 28 April 2005 (28.04.2005). abstract; para [0014], [0081].	7
Y	US 2003/0195602 A1 (BOLING) 16 October 2003 (16.10.2003), abstract; para [0132J.	10