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(54) Title: SYSTEM AND APPARATUS FOR IN-VIVO ASSESSMENT OF RELATIVE POSITION OF AN IMPLANT

(57) Abstract: A system and apparatus for providing an in- vivo assessment of relative movement of an implant that is positioned in a living being is provided that comprises a first assembly and a second assembly that are positioned within the living being. The first assembly comprises a passive electrical resonant circuit that is configured to be selectively electromagnetically coupled to an ex-vivo source of RF energy and, in response to the electromagnetic coupling, generates an output signal characterized by a frequency that is dependent upon a distance between the first assembly and the second assembly at the time of the electromagnetic coupling.



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INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2009/039220**A. CLASSIFICATION OF SUBJECT MATTER*****A61B 17/70(2006.01)i, A61F 2/44(2006.01)i, A61B 18/18(2006.01)i***

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 A61B, A61F

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

Korean Utility models and applications for Utility models since 1975

Japanese Utility models and applications for Utility models since 1975

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

eKOMPASS(KPA, PAJ, FPD, USPATFULL) in KIPO, CA online & keywords: relative movement, radiofrequency, LC resonator, inductor, capacitor, implant

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 5986549 A (TEODORESCU) 16 November 1999 See the abstract; column 1, lines 12-16; column 2, lines 1-12, 44-59; column 3, lines 34-35; figure 1; claims 1, 15	1,2,4,12,13,17,18, 21-23,26-29,35-39,41-43, 45, 46
A		3, 5-11, 14-16, 19, 20, 24, 25, 30-34, 40, 44
Y	US 2002-0049394 A1 (ROY et al.) 25 April 2002 See the abstract; paragraphs [0037],[0044],[0058]-[0060],[0085],[0087]-[0090],[0099]; figures 6, 12, 13, 15, 16; claims 1-3, 7, 9, 10,	1,2,4,12,13,17,18, 21-23,26-29,35-39,41-43, 45, 46
A		3, 5-11, 14-16, 19, 20, 24, 25, 30-34, 40, 44

☒ Further documents are listed in the continuation of Box C.☒ See patent family annex.

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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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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2008-0077016 A1 (SPARKS et al.) 27 March 2008 See the abstract; paragraphs [0022]-[0025],[0027]; figures 2a, 2b	1-46
A	US 2007-0236213 A1 (RADEN et al.) 11 October 2007 See the abstract; paragraphs [0100],[0101]; figures 7, 8; claim 1	1-46
A	US 2003-0105388 A1 (ROY et al.) 05 June 2003 See the abstract; paragraphs [0029],[0031],[0034],[0039],[0045],[0046],[0048]; figures 1, 2, 4, 5; claim 1	1-46
A	US 6201980 B1 (DARROW et al.) 13 March 2001 See the abstract; column 3, lines 10-35; column 6, lines 49-67; figures 1, 2; claims 1, 8, 9	1-46

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Information on patent family members

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