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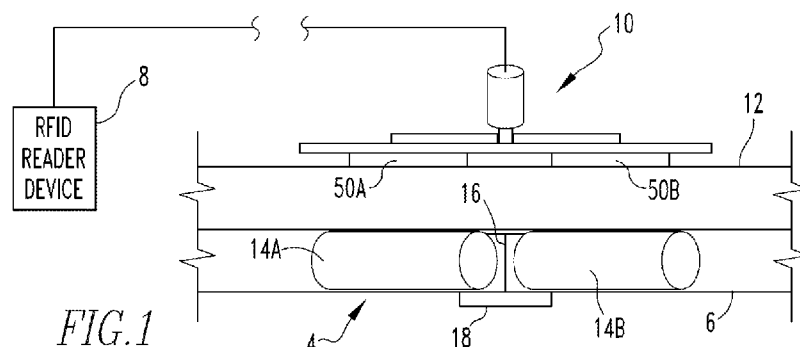
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Declarations under Rule 4.17:

- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))
- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))

(54) Title: TOUCH PROBE PASSIVELY POWERED WIRELESS STENT ANTENNA FOR IMPLANTED SENSOR POWERING AND INTERROGATION



(57) Abstract: A system and method for wirelessly and passively powering and/or interrogating an implanted stent using a touch probe assembly through a near-field electrical connection not over an air interface. The stent apparatus includes at least one stent member functioning as an antenna and an electronics module coupled to the at least one stent member. Also, a wirelessly and passively powered power meter for use with implanted stents. The power meter includes an electronics module coupled to a stent member, wherein the electronics module includes a programmable oscillator structured to generate an oscillating signal that is proportional to an amount of AC power received by the implantable stent apparatus power meter through the stent member.

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER

IPC(8) - A61B 5/00; A61B 5/02; A61B 5/0215; A61B 5/026; A61B 5/04; A61B 5/05; A61B 5/07 (2017.01)
 CPC - A61B 5/0031; A61B 5/0215; A61B 5/076; A61B 5/6862; A61B 5/6876; A61B 2560/0219; A61F 2/82 (2017.05)

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)

See Search History document

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

USPC - 128/903; 340/10.1; 343/895; 600/505; 600/561; 604/891.1 (keyword delimited)

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

See Search History document

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2012/0008714 A1 (RIZWAN) 12 January 2012 (12.01.2012) entire document	1-7, 17-24
A	US 2009/0043183 A1 (KERMANI et al) 12 February 2009 (12.02.2009) entire document	8-14, 25, 26
A	US 2013/0018438 A1 (CHOW) 17 January 2013 (17.01.2013) entire document	15, 16
A	US 2014/0222110 A1 (BIOTRONIK SE & CO KG) 07 August 2014 (07.08.2014) entire document	1-26
A	US 8,308,794 B2 (MARTINSON et al) 13 November 2012 (13.11.2012) entire document	1-26

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

* Special categories of cited documents:

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

"E" earlier application or patent but published on or after the international filing date

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"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

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"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

"&" document member of the same patent family

Date of the actual completion of the international search

27 June 2017

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