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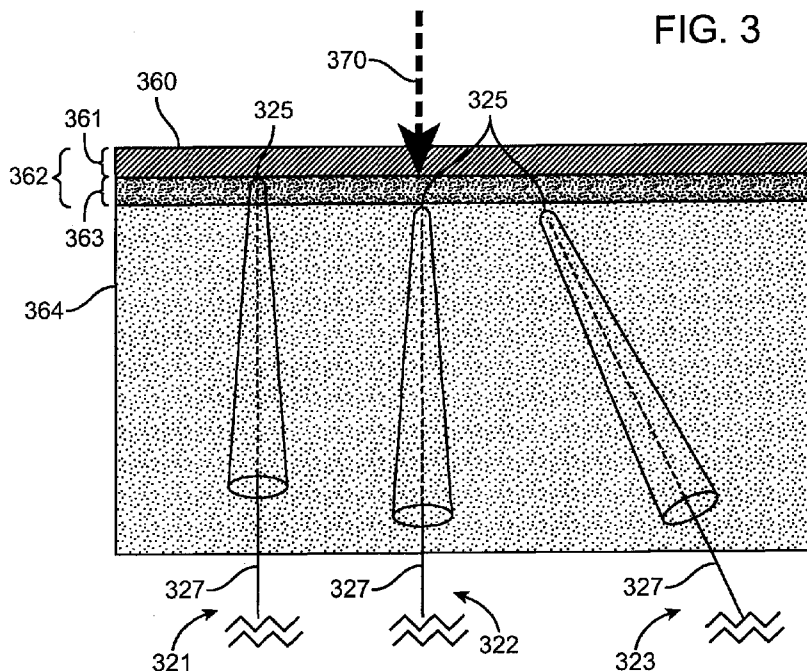
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(54) Title: BREACH DETECTION IN SOLID STRUCTURES



(57) Abstract: An implantable device includes at least one solid structure having an external surface and a volume beneath the surface. One or more of a first conductor or set of conductors is disposed externally and/or internally on or within the structure and an array of elongate electrically conductive elements are disposed radially outwardly within the volume. A breach is detected when a conductive fluid intrudes into the volume through the surface.



## INTERNATIONAL SEARCH REPORT

International application No.

PCT/US2012/021204

## A. CLASSIFICATION OF SUBJECT MATTER

IPC(8) - A61F 2/76 (2012.01)

USPC - 623/11.11

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)

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USPC - 623/7, 8, 11.11, 912

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)

PatBase, Google Patents, Google Scholar

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2009/0012372 A1 (BURNETT et al) 08 January 2009 (08.01.2009) entire document	1-7, 9-15, 20-26
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Y		8, 16-19
Y	US 2009/0254179 A1 (BURNETT) 08 October 2009 (08.10.2009) entire document	8
Y	US 2010/0331613 A1 (CENTONZE et al) 30 December 2010 (30.12.2010) entire document	16-19
A	US 2006/0111632 A1 (CHEN) 25 May 2006 (25.05.2006) entire document	1-26
A	US 5,674,288 A (KNAPP et al) 07 October 1997 (07.10.1997) entire document	1-26
A	US 2006/0200030 A1 (WHITE et al) 07 September 2006 (07.09.2006) entire document	1-26

 Further documents are listed in the continuation of Box C.

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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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"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

"&amp;" document member of the same patent family

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