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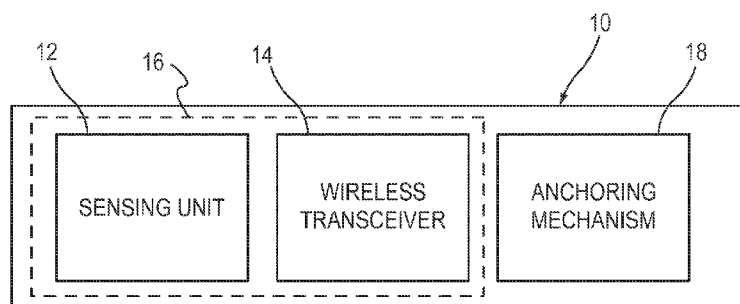


FIG.1

(57) Abstract: In some embodiments, a cardiac monitoring system includes multiple sensors configured for implantation in a cardiovascular system of a user. Each sensor includes a sensing unit configured to be disposed in sensory communication with the location for measuring a biological parameter in the at least one heart chamber. The sensing unit is also configured to generate a sensory signal associated with the biological parameter. Each sensor also includes a wireless transceiver configured to receive the sensory signal from the sensing unit. The wireless transceiver is further configured to wirelessly transmit the sensory signal to an external processing device disposed outside a body of the user. The external processing device monitors, based on the sensory signal received from at least two sensors from the plurality of sensors, cardiac health associated with at least one of an implanted device or a surgery.



INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER

IPC(8) - A61N 1/00 (2012.01)

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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: 600/486, 483, 481, 48; A61B 5/02 (keyword limited - see terms below)

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

PubWEST (PGPB, USPT, USOC, EPAB, JPAB); GOOGLE; GoogleScholar

Search Terms: cardiac, cardiovascular, sensor, wireless, Wi-Fi, radio, implant, heart, vein, artery, wall, cylindrical, anchor, button, bolt, screw, mesh, stand, spring, stitch, pressure, pH, chemical, metabolite, gas, fluid, dielectric, capacitive, conductive, resisted, power

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X --- Y	US 20100249882 A1 (Houben) 30 September 2010 (30.09.2010), entire document, especially; para. [0012], [0022], [0023], [0025], [0027]-[0029], [0032]-[0036], Fig 1, 2	1, 3-7, 24, 33-38, 70-71, 73-77 ----- 2, 8-23, 25-32, 39-69, 72
Y	US 2009/0105557 A1 (Najafi et al.) 23 April 2009 (23.04.2009), entire document, especially; para. [0023]-[0025], [0031], [0044], Fig 4	2, 28-32, 39-69, 72
Y	US 2011/0124992 A1 (Brauker et al.) 26 May 2011 (26.05.2011); Figs. 8, 11A; para[0163]-[0164], [0177], [0180], [0186], [0192], [0194], [0197]	8-23, 27, 44-51, 63-65, 68
Y	US 2009/0105605 A1 (Abreu) 23 April 2009 (23.04.2009), entire document, especially; para. [0074]	25-26, 53
A	US 2007/0032734 A1 (Najafi et al.) 08 February 2007 (08.02.2007); entire document	1-77
A	US 6,783,499 B2 (Schwartz) 31 August 2004 (31.08.2004); entire document	1-77
A	US 2010/0174201 A1 (Bodecker et al.) 08 July 2010 (08.07.2010); entire document	1-77

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