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[Continued on next page]

(54) Title: WIRELESS ENERGY TRANSFER FOR IMPLANTABLE DEVICES

(57) Abstract: Described herein are improved configurations for a wireless power transfer. Described are methods and designs for implantable electronics and devices. Wireless energy transfer is utilized to eliminate cords and power cables puncturing the skin to power an implantable device. Repeater resonators are employed to improve the power transfer characteristics between the source and the device resonators.

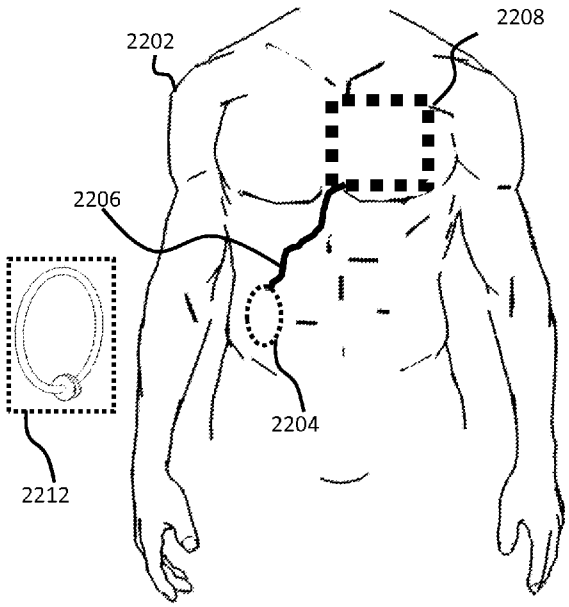


Fig. 22A

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EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER

H02J 17/00(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)

H02J 17/00; G01S 3/80; H01F 38/14; H02J 7/00

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

Japanese utility models and applications for utility models

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

eKOMPASS(KIPO internal) & Keywords: wireless power, medical, repeater, temperature

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X Y A	WO 2010-104569 A1 (NEURDS INC. et al.) 16 September 2010 See the abstract; paragraphs [0057],[0123],[0124]; claims 1-7; figures 1-14.	1,5-8 9-14,18 2-4,15-17
Y A	US 2010-0181845 A1 (FIORELLO RON et al.) 22 July 2010 See the abstract; claims 1-10; figrues 1-37.	9-14,18 1-8,15-17
A	US 2010-0109445 A1 (KURS ANDRE B. et al.) 06 May 2010 See the abstract; claims 1-20; figures 1-40.	1-18
A	WO 2011-061388 A1 (NOKIA CORPORATION et al.) 26 May 2011 See the abstract; claims 1-27; figures 1-5.	1-18

☐ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

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"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	Date of mailing of the international search report
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