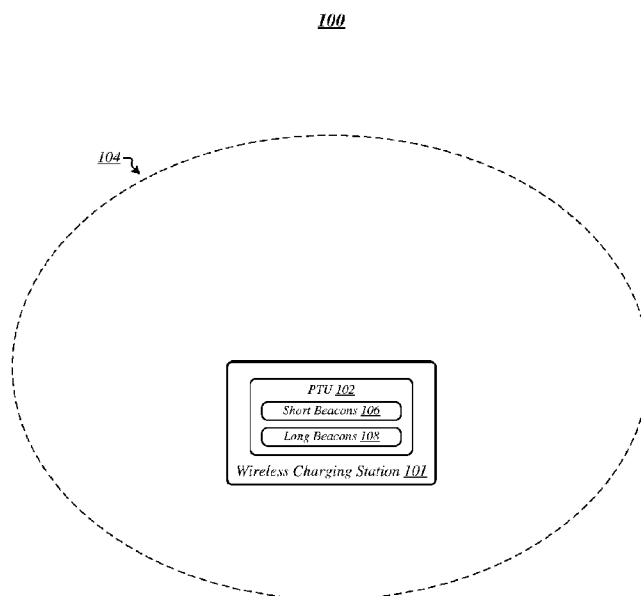




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(54) Title: WIRELESS LINK MANAGEMENT TECHNIQUES FOR WIRELESS CHARGING SYSTEMS

FIG. 1



(57) Abstract: Wireless link management techniques for wireless charging systems are described. According to some such techniques, a power receiving unit (PRU) may be configured to observe a rectifier voltage while operating in a charge complete connected (CCC) mode according to which it possesses a wireless connection with a power transmitting unit (PTU) operating in a power save state. In various embodiments, the PRU may be configured to observe the rectifier voltage in an attempt to detect power beacons generated by the PTU. In some embodiments, the PRU may be configured to maintain the wireless connection if it detects power beacons, and to terminate the wireless connection if it does not detect any beacons. Other embodiments are described and claimed.



SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR,
TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

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A. CLASSIFICATION OF SUBJECT MATTER**H02J 50/90(2016.01)i, H02J 50/12(2016.01)i, H02J 7/02(2006.01)i**

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHEDMinimum documentation searched (classification system followed by classification symbols)
H02J 50/90; H02J 5/00; H04W 52/02; H02J 17/00; H02J 7/02; H02J 4/00; H02J 50/12Documentation 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 modelsElectronic data base consulted during the international search (name of data base and, where practicable, search terms used)
eKOMPASS(KIPO internal) & Keywords: wireless charging, link, operating mode, beacon, monitor, interval**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2015-0372496 A1 (SAMSUNG ELECTRONICS CO., LTD.) 24 December 2015 See paragraphs 46-156, claims 1-20 and figures 1-11.	1-25
A	US 2014-0306657 A1 (MIKA-PETTERI LUNDGREN et al.) 16 October 2014 See paragraphs 31-99, claims 19-35 and figures 1-4.	1-25
A	US 2014-0113689 A1 (SAMSUNG ELECTRONICS CO., LTD.) 24 April 2014 See paragraphs 112-172 and figures 7-20.	1-25
A	US 2014-0091626 A1 (JOHN WALLEY et al.) 03 April 2014 See paragraphs 30-114 and figures 1-7.	1-25
A	US 2014-0285141 A1 (SAMSUNG ELECTRONICS CO., LTD.) 25 September 2014 See paragraphs 80-107 and figures 5-10.	1-25

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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

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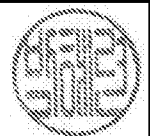
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INTERNATIONAL SEARCH REPORT

Information on patent family members

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PCT/US2017/016738

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