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(19) **United States**(12) **Patent Application Publication**
Park et al.(10) **Pub. No.: US 2022/0360115 A1**(43) **Pub. Date: Nov. 10, 2022**(54) **METHOD AND APPARATUS FOR
CONTROLLING WIRELESS POWER
TRANSMISSION***H02J 50/90* (2006.01)*H02J 50/12* (2006.01)*H02J 7/02* (2006.01)*H04L 5/00* (2006.01)*H02J 50/20* (2006.01)(71) Applicant: **LG INNOTEK CO., LTD.**, Seoul (KR)(72) Inventors: **Yu Ri Park**, Seoul (KR); **Yong Il
Kwon**, Seoul (KR)(73) Assignee: **LG INNOTEK CO., LTD.**, Seoul (KR)(21) Appl. No.: **17/733,503**(22) Filed: **Apr. 29, 2022**(52) **U.S. Cl.**CPC *H02J 50/60* (2016.02); *H02J 50/80*(2016.02); *H02J 50/90* (2016.02); *H02J 50/12*(2016.02); *H02J 7/02* (2013.01); *H04L 5/0055*(2013.01); *H02J 50/20* (2016.02); *H02J**50/402* (2020.01)

(57)

ABSTRACT**Related U.S. Application Data**(63) Continuation of application No. 16/929,933, filed on
Jul. 15, 2020, now Pat. No. 11,349,347, which is a
continuation of application No. 16/440,746, filed on
Jun. 13, 2019, now Pat. No. 10,742,074.**Foreign Application Priority Data**

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A method of controlling a wireless power receiver can include transmitting, during a first determination phase, a foreign object detection status packet; before entering a first power transfer mode for receiving first power and before entering a second power transfer mode for receiving second power, receiving a determination result as to whether a foreign object is present determined based on the foreign object detection status packet; in response to determining that the foreign object is present based on the determination result, receiving the first power according to the first power transfer mode; and in response to determining that the foreign object is not present based on the determination result, receiving the second power according to the second power transfer mode.

