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**KIM et al.**(10) **Pub. No.: US 2022/0352758 A1**(43) **Pub. Date: Nov. 3, 2022**(54) **APPARATUSES AND METHODS FOR  
WIRELESSLY TRANSMITTING AND  
RECEIVING POWER**(71) Applicant: **Electronics and Telecommunications  
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(57) **ABSTRACT**

An apparatus and method for wirelessly transmitting power and an apparatus and method for wirelessly receiving power are provided. A wireless power reception apparatus may include a reception circuit that is configured to wirelessly receive power having an extended frequency band and that includes a matching inductor with an adjusted inductance and a matching capacitor with an adjusted capacitance, and a processor configured to determine reception parameters related to a resonant frequency of the reception circuit based on transmission parameters and control the inductance and the capacitance based on the reception parameters, and the transmission parameters may be related to a variation in a transmission frequency at which the power is wirelessly transmitted.

