

(19) **United States**

(12) **Patent Application Publication**  
**KUROKAWA et al.**

(10) **Pub. No.: US 2022/0352764 A1**

(43) **Pub. Date: Nov. 3, 2022**

(54) **WIRELESS POWER TRANSMISSION  
SYSTEM AND WIRELESS POWER  
TRANSMISSION METHOD**

(52) **U.S. CL.**  
CPC ..... *H02J 50/90* (2016.02); *H02J 50/20*  
(2016.02)

(71) Applicant: **Panasonic Holdings Corporation,**  
Osaka (JP)

(57) **ABSTRACT**

(72) Inventors: **Aya KUROKAWA,** Osaka (JP);  
**Hiroyuki TANI,** Hyogo (JP); **Yuki**  
**TANAKA,** Tokyo (JP)

A wireless power transmission system and a wireless power transmission method are provided that, even if a power transmitter does not have a communication functionality, can improve a transmission efficiency of power waves transmitted from the power transmitter. The wireless power transmission system includes a power transmitter that transmits a power wave and one or more power receivers that receive the power wave, wherein the power transmitter includes a controller that measures a strength of a power wave transmitted from the power receivers by adjusting at least one of a position of the power transmitter and an orientation of an antenna receiving the power wave transmitted from the power receivers and transmits a power wave to the power receivers in accordance with at least one of the position of the power transmitter and the orientation of the antenna upon the measured strength of the power wave exceeding a predetermined value.

(21) Appl. No.: **17/660,043**

(22) Filed: **Apr. 21, 2022**

(30) **Foreign Application Priority Data**

Apr. 30, 2021 (JP) ..... 2021-077582

**Publication Classification**

(51) **Int. CL.**  
*H02J 50/90* (2006.01)  
*H02J 50/20* (2006.01)

100

