US 20240235280A1

(19) **United States**

(12) **Patent Application Publication** (10) **Pub. No.: US 2024/0235280 A1**

SHICHINO et al. (43) **Pub. Date: Jul. 11, 2024**

(54) **POWER TRANSMISSION APPARATUS, POWER RECEPTION APPARATUS, AND METHOD**

(71) Applicant: **CANON KABUSHIKI KAISHA**, Tokyo (JP)

(72) Inventors: **TAKAHIRO SHICHINO**, Tokyo (JP); **WATARU TACHIWA**, Kanagawa (JP)

(21) Appl. No.: **18/615,377**

(22) Filed: **Mar. 25, 2024**

Related U.S. Application Data

(63) Continuation of application No. PCT/JP2022/034808, filed on Sep. 16, 2022.

(30) **Foreign Application Priority Data**

Sep. 27, 2021 (JP) 2021-156856

Publication Classification

(51) **Int. Cl.**

H02J 50/80	(2006.01)
H02J 7/00	(2006.01)
H02J 50/10	(2006.01)
H04B 5/79	(2006.01)

(52) **U.S. Cl.**

CPC ***H02J 50/80*** (2016.02); ***H02J 50/10*** (2016.02); ***H04B 5/79*** (2024.01); *H02J 7/0048* (2020.01)

(57) **ABSTRACT**

In a case where a power reception apparatus communicates with a power transmission apparatus using a first communication unit, the power reception apparatus transmits a packet and then transmits a next packet after a time T_silent elapses, and in a case where the power reception apparatus communicates with the power transmission apparatus using a second communication unit, the power reception apparatus transmits the packet and then transmits the next packet even in a case where the time T_silent does not elapse.