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(54) **WIRELESS POWER-TRANSFER EQUIPMENT AND METHOD FOR CONTROLLING VEHICLE AND WIRELESS POWER-TRANSFER SYSTEM**

(57) A power supply device (110) generates power having a prescribed frequency. A primary self-resonant coil (140) transmits the power in a contactless manner to a secondary self-resonant coil (210) by resonating with the secondary self-resonant coil (210) through an electromagnetic field. A power sensor (115) detects reflected power to the power supply device (110). A communica-

tion device (170) receives a power receiving state of a vehicle (200). An ECU (160) estimates a positional mismatch amount of the secondary self-resonant coil (210) relative to the primary self-resonant coil (140) based on the power receiving state of the vehicle (200) and the reflected power, by using relation obtained in advance between the power receiving state and the reflected power, and the positional mismatch amount.

FIG.1

