

WIRELESS POWER TRANSMISSION DEVICE AND POWER SUPPLY METHOD OF WIRELESS POWER TRANSMISSION DEVICE

ABSTRACT

In the present invention, the power consumption of a power-supplying module is reduced in the case (standby state) that the power-supplying module and a power-receiving module are not in a power-suppliable region without providing a new device while suppressing the strength of a magnetic field generated in the vicinity of the power-supplying module and the power-receiving module.

The wireless power transmission apparatus is such that the power-supplying module (2), which supplies power using a resonance phenomenon to the power-receiving module (3) from the power-supplying module (2) connected to an AC power source (6), is operated at a power source frequency such that the input impedance (Z_{in}) of the power-supplying module (2) in a standby state in which a magnetic field space (Z_1 , Z_2) is not formed is greater than the input impedance (Z_{in}) of the power-supplying module (2) and power-receiving module (3) in a power-supplying state in which a magnetic field space (Z_1 , Z_2) is formed.