

TITLE OF THE INVENTION: WIRELESS POWER TRANSMISSION DEVICE,
SUPPLY POWER CONTROL METHOD FOR WIRELESS POWER TRANSMISSION
DEVICE, AND METHOD FOR MANUFACTURING WIRELESS POWER TRANSMISSION
DEVICE

ABSTRACT

A wireless power transmission apparatus (1) supplies power from a power-supplying module (2) equipped with a power-supplying coil (21) and a power-supplying resonator (22) to a power-receiving module (3) equipped with a power-receiving coil (31) and a power-receiving resonator (32) by changing magnetic field. In a supply power control method for the wireless power transmission device (1), the power is supplied with such a value that the driving frequency of the power supplied to the power-supplying module (2) does not match with the resonance frequencies of the power-supplying module (2) and the power-receiving module (3).

The element values of circuit elements constituting the power-supplying module (2) and the power-receiving module (3) are used as parameters, and by changing each of the parameters, the input impedance (Z_{in}) of the wireless power transmission apparatus (1) is set to adjust the power to be supplied.