

ABSTRACT

In the wireless power transmission apparatus (1), in which power is supplied by resonance phenomenon from a power-supplying module (2) to a power-receiving module (3) that is connected to a lithium ion secondary battery (9) capable of being charged by a constant current/constant voltage charging system, a variable parameter, which constitutes the power supply module and the power receiving module, is set such that the transmission characteristic value for the drive frequency of power supplied to the power-supplying module (2) exhibits double-hump characteristics. Thus, adjustment of the drive frequency sets the variation tendencies of the input impedance (Z_{in}) of the wireless power transmission apparatus (1) during constant voltage charging to adjust the variation tendencies of the input current (I_{in}) of the wireless power transmission apparatus (1), and enables the heat generated by the wireless power transmission apparatus (1) to be controlled.