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(54) **CONTACTLESS POWER FEED APPARATUS**

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(57) **ABSTRACT**

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A contactless power feed apparatus 1 has a relay circuit 4 relaying power transmitted from a power transmission device 2 to a power reception device 3 in a contactless manner. The power transmission device 2 has: a transmission coil 12 transmitting AC power to the relay circuit 4. The relay circuit 4 has: a first coil 31, electromagnetically coupled with the transmission coil 12 and receiving the AC power from the transmission coil 12; a second coil 32, transmitting the AC power to the power reception device 3; and a resonant capacitor 33, resonating with the AC power supplied to the transmission coil 12 together with the first and second coils 31, 32. The power reception device 3 has: a resonant circuit 20, having a reception coil 21 receiving AC power from the second coil 32 by being electromagnetically coupled with the second coil 32 of the relay circuit 4.

