

ABSTRACT

In a non-contact power supply system 110, each of a plurality of non-contact power supply devices 1A, 1B, 1C, 1D, and 1E has a filter circuit 9 connected to an inverter 8 configured to convert power supplied from a power source 2 into AC power, the filter circuit 9 including a reactor and capacitors. The non-contact power supply system 110 includes an electrostatic coupling unit 112 configured to electrostatically couple one non-contact power supply device to another non-contact power supply device, the electrostatic coupling unit 112 having two capacitors C10 and C20 electrically connected in parallel; and a different-phase coil 114 that is provided between the filter circuit 9 of the one non-contact power supply device and the two capacitors C10 and C20, the different-phase coil 114 having an inductance component when a short-circuit or a ground fault occurs.

Fig. 4