

ABSTRACT

To provide a contactless power feed type traveling vehicle system that can suppress a leakage of the magnetic field from a power feed cable, a contactless power feed system includes an AC power source, a power feed cable (17, 17), a power reception pickup (23), and
5 a magnetic field reducing section (85). The power feed cable (17) is connected to the AC power source. The power reception pickup (23) is provided on a traveling vehicle (5) and contrived to receive electric power through the power feed cable (17) in a contactless
10 fashion. The magnetic field reducing section (85) has a coil antenna (87) and a capacitor (89). An induced electric current flows in the coil antenna due to a magnetic field generated by an electric current flowing in the power feed cable (17). A resonance relationship is established between the coil antenna (87) and the
15 capacitor (89) such that the induced electric current in the coil antenna (87) is out of phase or in opposite phase with the electric current flowing in the power feed cable (17).

Figure 8.