

ABSTRACT

Embedded system for generating a rail vehicle location signal

This system (210) comprises an antenna (20) comprising a first loop (22) and a second loop (24) having different radiation patterns, the first and second loops being designed to generate first and second currents (I1, I2) when the antenna passes over a beacon situated on the line and an electronic processing subsystem designed to generate a location signal from said first and second currents.

It is characterized by said subsystem being a first subsystem (230) for generating a first location signal (SL1), the system comprises a second subsystem (240) for generating a second location signal (SL2) from said first and second currents, and by said subsystem comprising an arbitration means (250) designed to generate a safety location signal (SLS) according to said first and second location signals.

Figure 6