

ANTENNA APPARATUS

ABSTRACT OF THE DISCLOSURE

There is provided an antenna apparatus in which a non-detection region is made minimum within the regulatory limit of radio wave radiation, and satisfactory communication is enabled over a wide range. Four substantially square antennas are adjacently arranged on the same plane to constitute an antenna assembly, which is arranged to be opposite to a similar antenna assembly. Reverse phase currents flow to the first antenna and the third antenna, and similarly, reverse phase currents flow to the second antenna and the fourth antenna. The second and the fourth antennas are subjected to phase inversion for every data communication between a pattern 1 in which same phase currents flow to the second antenna and the third antenna and a pattern 2 in which same phase currents flow to the first antenna and the second antenna. A predetermined phase difference is provided between the first and the second antenna assemblies.

Figure 1



162162



G00002