

ABSTRACT

An active phased array antenna according to the present invention comprises plural antenna patches 106a-106p which are arrayed in matrix on a dielectric substrate at equal intervals in the row and column directions, a grounded feeding terminal 108 which is applied with high-frequency electric power, a first control voltage generating means 111 which generates a row-direction orientation control voltage, and a second control voltage generating means 112 which generates a column-direction orientation control voltage. The plural antenna patches 106 are connected to the feeding terminal 108 by feeding lines 121, branching off from the feeding terminal 108 respectively, and plurally provided phase shifters 107 are arranged constituting a part of the feeding lines 121.

In the so-constructed active phased array antenna, a low-cost active phased array antenna which is of a simpler structure and capable of continuously changing antenna orientation characteristics can be realized.