Title (en)

Directivity varying type diversity antenna apparatus

Title (de)

Antennendiversity mit veränderbarer Richtcharakteristik

Title (fr)

Antenne à diversité à directivité variable

Publication

EP 0877440 A1 19981111 (EN)

Application

EP 98303451 A 19980501

Priority

JP 11822397 A 19970508

Abstract (en)

A directivity varying type diversity antenna apparatus of the present invention includes a plurality of nondirectional antenna elements (11 to 1n) arranged at regular intervals, a receiving antenna determination means (20) for determining a diversity receiving antenna (A1 to A4) by selecting antenna elements (11 to 1n), arranged in specific positions, from among the plurality of nondirectional antenna elements and combining the selected antenna elements, a phase control means (30) for controlling a relationship in phase between RF signals of radio waves received by the diversity receiving antenna (A1 to A4) determined by the receiving antenna determination means (20), a diversity processing means (50) for diversity-processing the RF signals whose phases are controlled and supplying the diversity-processed RF signals to a tuner (60), and a directivity varying control means (70) for properly performing an operation of directivity based on information indicative of receiving conditions, supplying a first instruction signal (S2) for changing an antenna element to the receiving antenna determination means (20) and supplying a second instruction signal (S3) for changing the relationship in phase between the RF signals to the phase control means (30) in accordance with a result of the operation. <IMAGE>

IPC 1-7

H01Q 1/12; H01Q 1/32; H01Q 3/26; H04B 7/08

IPC 8 full level

H01Q 3/24 (2006.01); **H01Q 1/12** (2006.01); **H01Q 1/32** (2006.01); **H01Q 3/26** (2006.01); **H01Q 3/34** (2006.01); **H04B 7/08** (2006.01); **H04B 7/10** (2006.01)

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Citation (search report)

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