

Title (en)

Method and device with lower backwards and under horizon radiations in a group of antennas

Title (de)

Verfahren und Vorrichtung zum Verringern von Rückstrahlungen sowie Strahlungen unterhalb des Horizonts in einer Gruppenantenne

Title (fr)

Procédé et dispositif de réduction des champs arrières et abaissés sous l'horizon dans un groupe d'antennes

Publication

EP 0814537 B1 20041117 (FR)

Application

EP 97401351 A 19970616

Priority

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Abstract (en)

[origin: EP0814537A1] The method involves selecting the position where the field produced by the antennae is a minimum and adjusting the phase of each antenna so the value of the field reduces at a predetermined position to the front of the antennae. The transmitter signal is fed to a variable power distributor (6) which adjusts the signal amplitude to each antenna to compensate for the difference in the signal due to the difference in height and give a minimum radio field in the given region downward from the antennae. Phase correctors (7,8) compensate for the reflected waves to provide a zero field in a chosen region. The power distributor is a quarter-wavelength volume conductor comprising a fixed line and two moving lines excited by a moving line connection while the phase correction uses an adjustable line. The height above the ground of the upper antenna may be 34m with a spacing between the antennae of 2m.

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