

Title (en)

VARIABLE CAPACITANCE ANTENNA WITH CONSTANT IMPEDANCE MATCHING SYSTEM FOR MULTI FREQUENCY RECEPTION AND TRANSMISSION

Title (de)

ANTENNE MIT VARIABLER KAPAZITÄT MIT EINEM KONSTANTEN WIDERSTANDSANPASSUNGSSYSTEM FÜR MEHRFACHFREQUENZ EMPFANG UND SENDEN

Title (fr)

ANTENNE A CAPACITE VARIABLE A SYSTEME D'ADAPTATION A IMPEDANCE CONSTANTE POUR RECEPTION ET TRANSMISSION EN MULTIFREQUENCE

Publication

EP 0815614 A1 19980107 (EN)

Application

EP 96910442 A 19960313

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Abstract (en)

[origin: WO9629758A1] A variable capacitance antenna allows individual adjustment of linear resonators on a beam antenna. A linear resonator is associated with each dipole element on a common support boom. A variable capacitance is positioned inside the boom and created using an arrangement of two coaxial conductive tubes as capacitive plates. One of the conductive tubes may be axially moved by a motor using a remote drive control. The movement of one conductive tube relative to the other can vary the capacitance from 0 to 100 picofarads, for example. The variable capacitance antenna can be used for both horizontal and vertical signal polarization applications.

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