

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**

Priority

- US 9603420 W 19960313
- US 40642195 A 19950320
- US 59409696 A 19960130

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.

IPC 1-7

**H01Q 9/16**; H01Q 9/14; H01Q 19/30

IPC 8 full level

**H01Q 9/14** (2006.01); **H01Q 9/16** (2006.01); **H01Q 19/30** (2006.01)

CPC (source: EP)

**H01Q 9/145** (2013.01); **H01Q 9/16** (2013.01); **H01Q 19/30** (2013.01)

Citation (search report)

See references of WO 9629758A1

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

**WO 9629758 A1 19960926**; AU 5363396 A 19961008; EP 0815614 A1 19980107

DOCDB simple family (application)

**US 9603420 W 19960313**; AU 5363396 A 19960313; EP 96910442 A 19960313