

Title (en)

METHOD FOR THE ELECTROMAGNETIC DECOUPLING OF AN ANTENNA AND THE SUPPORTING POLE THEREOF, AND CORRESPONDING SUPPORTING POLE

Title (de)

VERFAHREN ZUR ELEKTROMAGNETISCHEN ENTKOPPLUNG EINER ANTENNE UND STÜTZMAST DAFÜR SOWIE ENTSPRECHENDER STÜTZMAST

Title (fr)

PROCÉDÉ DE DÉCOUPLAGE ÉLECTROMAGNÉTIQUE ENTRE UNE ANTENNE ET SON MÂT DE SUPPORT ET MÂT DE SUPPORT CORRESPONDANT

Publication

**EP 2880712 B1 20160907 (FR)**

Application

**EP 13756618 A 20130729**

Priority

- FR 1257441 A 20120731
- FR 2013051824 W 20130729

Abstract (en)

[origin: WO2014020272A1] The invention relates to a method for the electromagnetic decoupling of a substantially vertical support pole (1) made of an electrically conductive material and an antenna (2) which emits, in a frequency band centred on a central frequency, waves having an at least partially vertical polarisation, and which is supported by said supporting pole (1), characterised in that said antenna (2) is mounted on said pole (1) by a connection arm (4) and in that at least two electromagnetic decoupling devices (3) are arranged on the supporting pole (1) between the antenna (2) and the pole (1), including at least one decoupling element (17) conducting electromagnetic waves having a wavelength that is one fifth to one third of the wavelength of the waves emitted by the antenna (2) at the central frequency, at least a first device (3) being arranged on the pole (1) above said connection arm (4) and at least a second device (3) being arranged on the pole (1) below said connection arm (4), so as to neutralise the currents induced in the pole (1) by the waves emitted by said antenna (2).

IPC 8 full level

**H01Q 1/52** (2006.01); **H01Q 21/24** (2006.01)

CPC (source: EP)

**H01Q 1/52** (2013.01); **H01Q 1/528** (2013.01); **H01Q 21/24** (2013.01)

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

**WO 2014020272 A1 20140206**; EP 2880712 A1 20150610; EP 2880712 B1 20160907; FR 2994341 A1 20140207; FR 2994341 B1 20150410

DOCDB simple family (application)

**FR 2013051824 W 20130729**; EP 13756618 A 20130729; FR 1257441 A 20120731