

Title (en)

A METHOD OF FEEDING AN ANTENNA ARRAY AND FEEDING ARRANGEMENT OF THE ANTENNA ARRAY

Title (de)

ENERGIEVERSORGUNGSVERFAHREN EINES ANTENNENARRAYS UND EIN ENERGIEVERSORGUNGSSYSTEM EINES ANTENNENARRAYS

Title (fr)

UNE MÉTHODE D'ALIMENTATION D'UN RÉSEAU D'ANTENNES ET UN ARRANGEMENT D'ALIMENTATION DU RÉSEAU D'ANTENNES

Publication

**EP 2991164 A1 20160302 (EN)**

Application

**EP 15460055 A 20150825**

Priority

PL 40927414 A 20140826

Abstract (en)

A method of feeding an antenna array, wherein the pattern similar to the cosecant pattern is achieved, according to the invention, characterized in that the consecutive radiators (RAD) are fed alternately with a positive and negative phase difference (F2-F1, F3-F2, F4-F3,..., FN-FN-1). Additionally, at least once two adjacent phase differences (from a set of F2-F1, F3-F2, F4-F3,..., FN-FN-1) at least once have the same direction of change, all the phases (F1, F2, F3, F4, ..., FN) being normalized to a range from 0° to 360°. An antenna array feeding arrangement, comprising an array of radiators, according to the invention, characterized in that it comprises at least 8 radiators (RAD). Consecutive radiators (RAD) are fed alternately with a positive and negative phase difference (F2-F1, F3-F2, F4-F3,..., FN-FN-1) and at least two adjacent phase differences (from a set of F2-F1, F3-F2, F4-F3,..., FN-FN-1) at least once have the same direction of change, all the phases (F1, F2, F3, F4, ..., FN) being normalized to a range from 0° to 360°.

IPC 8 full level

**H01Q 3/26** (2006.01); **H01Q 3/30** (2006.01)

CPC (source: EP)

**H01Q 3/26** (2013.01); **H01Q 3/30** (2013.01); **H01Q 1/246** (2013.01)

Citation (applicant)

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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

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

**EP 2991164 A1 20160302; EP 2991164 B1 20181219; PL 229431 B1 20180731; PL 409274 A1 20160229**

DOCDB simple family (application)

**EP 15460055 A 20150825; PL 40927414 A 20140826**