

Title (en)

Multi-beam antenna system for multi-spot coverage and satellite comprising such a system

Title (de)

Multistrahlen-Antennensystem zur Multispot-Abdeckung und mit diesem System ausgestatteter Satellit

Title (fr)

Système antenne multi-faisceaux pour couverture multispots et satellite comprenant un tel système

Publication

**EP 2120281 B1 20110511 (FR)**

Application

**EP 09160505 A 20090518**

Priority

FR 0853190 A 20080516

Abstract (en)

[origin: EP2120281A1] The system has an antenna including a control unit coupled with a power supply unit such that sub-sets of radiating elements in a radiating element array of the antenna are successively powered to form beams illuminating one of sub-spots (A1-A3) in each of spots of a coverage obtained according to an initial reutilization scheme. The obtained coverage is equivalent to a reutilization scheme of reutilization factor equal to a product of an initial reutilization factor and number of sub-spots in each spot.

IPC 8 full level

**H01P 1/28** (2006.01); **H01Q 25/00** (2006.01)

CPC (source: EP)

**H01Q 1/288** (2013.01); **H01Q 25/007** (2013.01)

Cited by

EP2429036A1; FR2964800A1; US9153877B2; US8780000B2; US10270524B2; WO2013095942A1

Designated contracting state (EPC)

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 SE SI SK TR

DOCDB simple family (publication)

**EP 2120281 A1 20091118**; **EP 2120281 B1 20110511**; **EP 2120281 B9 20110921**; AT E509390 T1 20110515; FR 2931302 A1 20091120; FR 2931302 B1 20100730

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