

Title (en)

Reflector antenna with variable coverage and operating frequencies and a satellite with such antenna

Title (de)

Reflektor Antenne mit variabler Abdeckung und Betriebsfrequenzen und Satellit mit solcher Antenne

Title (fr)

Antenne à réflecteur avec couverture et fréquences d'opération variable et satellite comportant une telle antenne

Publication

EP 2264830 B1 20180829 (FR)

Application

EP 10164352 A 20100528

Priority

FR 0902995 A 20090619

Abstract (en)

[origin: EP2264830A1] The antenna has a reversible reflector (10) with two separate reflecting surfaces (R1, R2) shaped geometrically to respectively cover different geographical zones. Two independent radiofrequency signal sources (S1, S2) are arranged in a fixed configuration and connected to separate radio-frequency supply chains (2, 3) defining different and predefined operating frequency planes (F1, F2). The reflector occupies two deployment positions in which focal points of the surfaces are located at a phase center (5) and another phase center of the sources by two motors (M1, M2), respectively.

IPC 8 full level

H01Q 1/28 (2006.01); **H01Q 3/20** (2006.01); **H01Q 5/00** (2015.01); **H01Q 5/45** (2015.01); **H01Q 15/16** (2006.01); **H01Q 19/18** (2006.01); **H01Q 25/00** (2006.01)

CPC (source: EP US)

H01Q 1/288 (2013.01 - EP US); **H01Q 3/20** (2013.01 - EP US); **H01Q 5/45** (2015.01 - EP US); **H01Q 15/161** (2013.01 - EP US); **H01Q 19/18** (2013.01 - EP US); **H01Q 25/002** (2013.01 - EP US)

Citation (examination)

- US 6239763 B1 20010529 - CUCHANSKI MICHAEL [US]
- US 6795034 B2 20040921 - LYERLY ALBERT E [US], et al

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 SE SI SK SM TR

DOCDB simple family (publication)

EP 2264830 A1 20101222; **EP 2264830 B1 20180829**; CA 2706761 A1 20101219; CA 2706761 C 20160802; ES 2699484 T3 20190211; FR 2947104 A1 20101224; FR 2947104 B1 20110729; US 2010321266 A1 20101223; US 8384610 B2 20130226

DOCDB simple family (application)

EP 10164352 A 20100528; CA 2706761 A 20100614; ES 10164352 T 20100528; FR 0902995 A 20090619; US 82001310 A 20100621