

Title (en)
Beam steered multizone satellite

Title (de)
Mehrzonensatellit mit Leuchtzonensteuerung

Title (fr)
Satellite à couverture multi-zones assurée par deviation de faisceau

Publication
EP 1473799 B1 20210324 (FR)

Application
EP 04291108 A 20040429

Priority
FR 0305300 A 20030430

Abstract (en)
[origin: EP1473799A1] The satellite has a transmitting and/or receiving antenna with a transmission and/or reception source. A transmission and/or reception module (R) of the source delivers and/or receives a beam as per a direction defined by selected phase and amplitude values. A processing module (MT) coupled to the module (R) deviates the beam or receiving direction according to another direction selected by variation of the amplitude value. An independent claim is also included for a usage of satellite in Ku and/or Ka frequency bands.

IPC 8 full level
H01Q 3/28 (2006.01); **H01Q 1/28** (2006.01)

CPC (source: EP US)
H01Q 1/288 (2013.01 - EP US); **H01Q 3/28** (2013.01 - EP US)

Citation (examination)
• EP 1191628 A1 20020327 - BOEING CO [US]
• EP 0683543 A2 19951122 - HUGHES AIRCRAFT CO [US]
• EP 0674355 A2 19950927 - HUGHES AIRCRAFT CO [US]
• EP 0141281 A2 19850515 - SIEMENS AG [DE]
• US 4847574 A 19890711 - GAUTHIER SIMON R [CA], et al
• RAMA RAO B ET AL: "SHF Cassegrain antenna with electronic beam squint tracking for high data rate mobile satellite communication systems", DIGEST OF THE ANTENNAS AND PROPAGATION SOCIETY INTERNATIONAL SYMPOSIUM. SEATTLE, WA., JUNE 19 - 24, 1994; [DIGEST OF THE ANTENNAS AND PROPAGATION SOCIETY INTERNATIONAL SYMPOSIUM], NEW YORK, IEEE, US, vol. 2, 20 June 1994 (1994-06-20), pages 1028 - 1031, XP010142314, ISBN: 978-0-7803-2009-3, DOI: 10.1109/APS.1994.407915

Designated contracting state (EPC)
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DOCDB simple family (publication)
EP 1473799 A1 20041103; EP 1473799 B1 20210324; EP 1473799 B8 20210428; CA 2523843 A1 20041118; CA 2523843 C 20120327; CN 1781215 A 20060531; CN 1781215 B 20110629; FR 2854503 A1 20041105; FR 2854503 B1 20061215; JP 2006525709 A 20061109; JP 4638865 B2 20110223; US 2006119504 A1 20060608; US 7545315 B2 20090609; WO 2004100306 A2 20041118; WO 2004100306 A3 20050113

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EP 04291108 A 20040429; CA 2523843 A 20040429; CN 200480011659 A 20040429; FR 0305300 A 20030430; FR 2004001043 W 20040429; JP 2006505824 A 20040429; US 55495305 A 20051219