

Title (en)

POLARISATION DEVICE FOR A SATELLITE TELECOMMUNICATIONS ANTENNA AND ASSOCIATED ANTENNA

Title (de)

POLARISATIONSVORRICHTUNG FÜR EINE SATELLITENTELEKOMMUNIKATIONSANTENNE UND ENTSPRECHENDE ANTENNE

Title (fr)

DISPOSITIF DE POLARISATION POUR ANTENNE DE TELECOMMUNICATIONS PAR SATELLITE ET ANTENNE ASSOCIEE

Publication

EP 3014704 A1 20160504 (FR)

Application

EP 14726562 A 20140520

Priority

- FR 1356168 A 20130627
- EP 2014060339 W 20140520

Abstract (en)

[origin: WO2014206649A1] The present invention relates to a polarisation device (10) for a satellite telecommunications antenna (11) comprising at least one frequency selective layer (12) able to convert a linear polarisation (E), comprising two components (Ex, Ey), into left circular polarisation in a first transmission frequency band (Tx) and into right circular polarisation in a second receiving frequency band (Rx) or vice versa, the phase shift between the two components (Ex, Ey) of the linear polarisation (E) being comprised between -85 and -95 degrees, preferably -90 degrees in one of the frequency bands (Rx, Tx), and the phase shift between the two components (Ex, Ey) of the linear polarisation (E) being comprised between +85 and +95 degrees, preferably +90 degrees in the other frequency band (Rx, Tx).

IPC 8 full level

H01Q 15/00 (2006.01); **H01Q 15/24** (2006.01)

CPC (source: EP US)

H01Q 1/288 (2013.01 - US); **H01Q 1/38** (2013.01 - US); **H01Q 15/0026** (2013.01 - EP US); **H01Q 15/006** (2013.01 - EP US); **H01Q 15/244** (2013.01 - EP US)

Citation (search report)

See references of WO 2014206649A1

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)

FR 3007913 A1 20150102; **FR 3007913 B1 20160902**; EP 3014704 A1 20160504; EP 3014704 B1 20170419; ES 2633512 T3 20170921; US 10333203 B2 20190625; US 2016372820 A1 20161222; WO 2014206649 A1 20141231

DOCDB simple family (application)

FR 1356168 A 20130627; EP 14726562 A 20140520; EP 2014060339 W 20140520; ES 14726562 T 20140520; US 201414901448 A 20140520