

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

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Application

EP 14726562 A 20140520

Priority

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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

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