Title (en)

FLATTENED DIHEDRAL SHAPED DEVICE POSSESSING AN ADAPTED (MAXIMISED OR MINIMISED) EQUIVALENT RADAR CROSS SECTION

Title (de)

ABGEFLACHTE V-FÖRMIGE VORRICHTUNG MIT EINEM ANGEPASSTEN (MAXIMIERTEN ODER MINIMIERTEN) ÄQUIVALENTEN RADARQUERSCHNITT

Title (fr)

DISPOSITIF EN FORME DE DIÈDRE APLATI POSSÉDANT UNE SURFACE ÉQUIVALENTE RADAR ADAPTÉE (MAXIMISATION OU MINIMISATION)

Publication

EP 2917965 A1 20150916 (FR)

Application

EP 13786517 A 20131107

Priority

- FR 1260615 A 20121108
- EP 2013073306 W 20131107

Abstract (en)

[origin: WO2014072431A1] A dihedral shaped device (10) is provided comprising two plates (l1a, 11b) forming between them an angle of π-2α, where 0<α<π/4. Each plate comprises a ground plane (12a, 12b), at least one dielectric layer (13a, 13b) and a network of radiating elements (14a, 14b). An incident wave is reflected by the device by virtue of a double reflection from both plates. The network of radiating elements of each plate allows a phase shift to be generated, from the exterior towards the centre of the dihedron, along an axis perpendicular to an axis of intersection of the two plates, according to a set phase law, allowing a deviation to be introduced relative to a specular reflection for a given operating frequency.

IPC 8 full level

H01Q 3/46 (2006.01); **H01Q 15/00** (2006.01); **H01Q 15/18** (2006.01)

CPC (source: EP US)

H01Q 3/46 (2013.01 - EP US); **H01Q 15/0013** (2013.01 - EP US); **H01Q 15/18** (2013.01 - EP US)

Citation (search report)

See references of WO 2014072431A1

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 2997796 A1 20140509; **FR 2997796 B1 20171103**; CN 104995794 A 20151021; CN 104995794 B 20180420; EP 2917965 A1 20150916; JP 2016502792 A 20160128; JP 6267219 B2 20180124; US 2015263425 A1 20150917; US 9882280 B2 20180130; WO 2014072431 A1 20140515

DOCDB simple family (application)

FR 1260615 A 20121108; CN 201380061474 A 20131107; EP 13786517 A 20131107; EP 2013073306 W 20131107; JP 2015541139 A 20131107; US 201314441741 A 20131107