

Title (en)
CONFIGURABLE MICROWAVE DEFLECTION SYSTEM

Title (de)
KONFIGURIERBARES MIKROWELLENABLENKSYSTEM

Title (fr)
SYSTEME DE DEFLEXION CONFIGURABLE HYPERFREQUENCE

Publication
EP 2959542 A1 20151230 (FR)

Application
EP 14703588 A 20140210

Priority
• FR 1300410 A 20130222
• EP 2014052503 W 20140210

Abstract (en)
[origin: WO2014128015A1] The invention relates to a configurable system (1) for deflecting an incident microwave beam (Fine) having a wavelength within a range of wavelengths corresponding to microwave frequencies, including: first (C1) and second (C2) dielectric diffractive components that are each capable of rotating about a rotational axis Z, said deflection system (1) being capable of generating a microwave beam (F) by diffracting said incident microwave beam (Fine) onto said first and second components (C1, C2), said microwave beam (F) being directed at an angle on the basis of the angular positioning between said first (C1) and said second (C2) diffractive components, said first and second components (C1, C2) respectively having first and second periodic structures that have first and second periods (P1, P2), along a first and second axis (X1, X2), said first and second structures respectively including a plurality of first and second primary microstructures (MS1p, MS2p) respectively formed on first and second substrates (S1, S2) having first and second substrate refractive indices.

IPC 8 full level
H01Q 3/14 (2006.01); **G02B 26/10** (2006.01); **H01Q 15/10** (2006.01)

CPC (source: EP US)
H01Q 3/14 (2013.01 - EP US); **H01Q 15/10** (2013.01 - US)

Citation (search report)
See references of WO 2014128015A1

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)
WO 2014128015 A1 20140828; EP 2959542 A1 20151230; EP 2959542 B1 20161026; FR 3002697 A1 20140829; FR 3002697 B1 20150306; US 2015380829 A1 20151231; US 9837723 B2 20171205

DOCDB simple family (application)
EP 2014052503 W 20140210; EP 14703588 A 20140210; FR 1300410 A 20130222; US 201414769510 A 20140210