

Title (en)
POLARISER FOR THE GENERATION OF CIRCULARLY POLARISED ELECTROMAGNETIC WAVES

Publication
EP 0044503 B1 19841017 (DE)

Application
EP 81105474 A 19810713

Priority
DE 3027093 A 19800717

Abstract (en)
[origin: US4477815A] Means for re-polarizing and generating circularly polarized waves using a single or multi-layer lattice structure which is placed in front of a radiation aperture with the lattice structure consisting of a plurality of conductors extending in the form of lines which meander and might be rectangular combinations or the like. With a lattice, a polarization conversion into circular polarization and the suppression of orthogonal polarization components is simultaneously achieved by providing that the meandering lines extend in a direction such that the meander lines have an angle of 45 DEG at every location with respect to the respective E vectors of the linearly polarized E-vector fields at such locations. The re-polarization means can be used as a Radome of a target tracking radar antenna.

IPC 1-7
H01Q 15/24; **H01Q 1/42**

IPC 8 full level
H01Q 1/42 (2006.01); **H01Q 15/12** (2006.01); **H01Q 15/24** (2006.01)

CPC (source: EP US)
H01Q 1/425 (2013.01 - EP US); **H01Q 15/12** (2013.01 - EP US); **H01Q 15/244** (2013.01 - EP US)

Cited by
EP3182505A1; WO2017102741A1

Designated contracting state (EPC)
BE CH FR GB IT LI NL

DOCDB simple family (publication)
EP 0044503 A1 19820127; **EP 0044503 B1 19841017**; DE 3027093 A1 19820211; DE 3027093 C2 19850425; US 4477815 A 19841016

DOCDB simple family (application)
EP 81105474 A 19810713; DE 3027093 A 19800717; US 28131481 A 19810708