Title (en)

CONDUCTIVE SCREEN FOR CIRCULARLY POLARISING ELECTROMAGNETIC WAVES

Publication

EP 0042611 B1 19840919 (DE)

Application

EP 81104792 A 19810622

Priority

DE 3023561 A 19800624

Abstract (en)

[origin: US4437099A] The invention relates to apparatus for converting electromagnetic waves with a particular polarization into waves having circular polarization wherein a single or multi-layer conductor grid structure is placed in front of the radiation aperture. If it is necessary due to spatial requirements of the radome, the circular polarization grid may be non-planar and according to the invention the geometric development of the grid structure can be determined by projecting a desired grid structure disposed in the radiation aperture plane upon a non-planar such as a cone-shaped surface. The manufacture of the grid structure can be accomplished by first forming the grid structure on a surface such as plastic with conducting strips or members formed thereon and so arranged such that when the plastic sheet is formed into a cone by removing a pie-shaped segment the desired non-planar pattern results.

IPC 1-7

H01Q 15/24; H01Q 1/42

IPC 8 full level

H01Q 1/42 (2006.01); **H01Q 15/24** (2006.01)

CPC (source: EP US)

H01Q 1/425 (2013.01 - EP US); **H01Q 15/244** (2013.01 - EP US)

Cited by

EP0044502B1

Designated contracting state (EPC)

BE CH FR GB IT LI NL

DOCDB simple family (publication)

EP 0042611 A1 19811230; **EP 0042611 B1 19840919**; DE 3023561 A1 19820114; DE 3023561 C2 19860102; US 4437099 A 19840313

DOCDB simple family (application)

EP 81104792 A 19810622; DE 3023561 A 19800624; US 24612281 A 19810320