

Title (en)
DIELECTRIC-BASED LEAKY-WAVE STRUCTURE

Title (de)
DIELEKTRISCH BASIERTE LECKWELLENSTRUKTUR

Title (fr)
STRUCTURE À ONDES DE FUITE DIÉLECTRIQUE

Publication
EP 3584887 A1 20191225 (EN)

Application
EP 18178556 A 20180619

Priority
EP 18178556 A 20180619

Abstract (en)
According to an aspect, there is provided a leaky-wave structure comprising a leaky transmission-line structure (101) and a dielectric strip (110) of a second dielectric material. The leaky transmission-line structure (101) comprises a section (120) with at least one inner conductor (102), an outer conductor (104) enclosing said at least one inner conductor (102), a layer (103) of a first dielectric material between them and an outer surface having a first and a second area (130, 140) which are disjoint areas on different sides of the leaky transmission-line structure (101). The outer conductor (104) comprises one or more openings (105) arranged along a longitudinal direction of the section (120) enabling leakage of the electromagnetic waves. The dielectric strip (110) is arranged to cover only said first area (130) at least at one or more locations of said one or more openings (105).

IPC 8 full level
H01Q 13/20 (2006.01)

CPC (source: EP)
H01Q 13/203 (2013.01)

Citation (search report)

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Designated contracting state (EPC)
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