

Title (en)

Bi-polarisation compact power distributor, network of a plurality of distributors, compact radiating element and planar antenna having such a distributor

Title (de)

Doppelpolarisierter kompakter Leistungsverteiler, Netz aus mehreren Verteilern, kompaktes Strahlungselement und Flachantenne, die einen solchen Verteiler umfasst

Title (fr)

Répartiteur de puissance compact bipolarisation, réseau de plusieurs répartiteurs, élément rayonnant compact et antenne plane comportant un tel répartiteur

Publication

EP 2869400 B1 20190327 (FR)

Application

EP 14191220 A 20141031

Priority

FR 1302548 A 20131104

Abstract (en)

[origin: CA2869648A1] The compact dual-polarization planar power splitter comprises at least four asymmetric orthomode transducers (OMTs) connected in an array suitable for being coupled in-phase to a dual orthogonal polarization feed source via two power distributors mounted perpendicularly in relation to one another, each power distributor comprising at least two lateral metal waveguides disposed parallel to one another, and a transverse metal waveguide coupled perpendicularly to the two lateral metal waveguides and four ends of the lateral waveguides coupled respectively to the four asymmetric OMTs.

IPC 8 full level

H01Q 21/00 (2006.01); **H01P 1/161** (2006.01); **H01P 5/12** (2006.01); **H01Q 21/24** (2006.01)

CPC (source: EP US)

H01P 1/161 (2013.01 - EP); **H01P 5/12** (2013.01 - US); **H01Q 1/50** (2013.01 - US); **H01Q 13/00** (2013.01 - US); **H01Q 21/0037** (2013.01 - EP US); **H01Q 21/24** (2013.01 - EP US)

Cited by

CN106229637A; EP3462532A1; FR3071672A1; CN109616729A; US10673118B2; DE102016014385A1; WO2018100133A1; US11196178B2; EP3480884A1; WO2019087166A1; US11569554B2

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DOCDB simple family (publication)

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DOCDB simple family (application)

EP 14191220 A 20141031; CA 2869648 A 20141104; ES 14191220 T 20141031; FR 1302548 A 20131104; JP 2014224228 A 20141104; US 201414530707 A 20141101