

Title (en)

RADIOFREQUENCY COMPONENT HAVING A PLURALITY OF WAVEGUIDE DEVICES PROVIDED WITH RIDGES

Title (de)

HOCHFREQUENZKOMPONENTEN MIT MEHREREN WELLENLEITERVORRICHTUNGEN MIT RIPPEN

Title (fr)

COMPOSANT RADIOFRÉQUENCE COMPORTANT PLUSIEURS DISPOSITIFS À GUIDE D'ONDE MUNI DE STRIES

Publication

**EP 3824511 A1 20210526 (FR)**

Application

**EP 20716218 A 20200327**

Priority

- FR 1903303 A 20190328
- IB 2020052961 W 20200327

Abstract (en)

[origin: WO2020194270A1] A radiofrequency component (1) having a plurality of waveguide devices (2), for example antennas or polarizers, arranged in an array and designed to transmit and/or receive electromagnetic signals, the radiofrequency component (1) having a plurality of ridges (23), and each waveguide device having: at least one inner wall (3); an upstream aperture (24) located upstream with respect to the direction of propagation of the emitted signals; a downstream aperture (25) located downstream with respect to said direction of propagation of the emitted signals, which aperture is linked to the upstream aperture such that the emitted signals are transmitted from the upstream aperture to the downstream aperture; wherein the ridge arrangement in the downstream apertures (25) of each waveguide device (2) comprises no more and no fewer than three ridges (23).

IPC 8 full level

**H01Q 13/02** (2006.01); **H01P 1/165** (2006.01); **H01P 1/17** (2006.01); **H01Q 3/26** (2006.01); **H01Q 15/24** (2006.01)

CPC (source: EP IL KR US)

**H01P 1/165** (2013.01 - EP IL KR US); **H01P 1/173** (2013.01 - EP IL KR); **H01Q 3/26** (2013.01 - IL KR US); **H01Q 13/0258** (2013.01 - EP IL KR); **H01Q 13/28** (2013.01 - IL US); **H01Q 15/244** (2013.01 - EP IL KR US); **H01Q 3/26** (2013.01 - EP)

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 2020194270 A1 20201001**; CA 3115092 A1 20201001; CA 3115092 C 20220315; CN 112714982 A 20210427; EP 3824511 A1 20210526; FR 3094575 A1 20201002; FR 3094575 B1 20220401; IL 281546 A 20210531; IL 281546 B1 20231201; IL 281546 B2 20240401; KR 20210140767 A 20211123; US 12015184 B2 20240618; US 2022029257 A1 20220127

DOCDB simple family (application)

**IB 2020052961 W 20200327**; CA 3115092 A 20200327; CN 202080005201 A 20200327; EP 20716218 A 20200327; FR 1903303 A 20190328; IL 28154621 A 20210316; KR 20217034996 A 20200327; US 202017276987 A 20200327