

Title (en)

SELF-COMPLEMENTARY MULTILAYER ARRAY ANTENNA

Title (de)

SELBSTKOMPLEMENTÄRE MEHRSCICHTIGE GRUPPENANTENNE

Title (fr)

ANTENNE RESEAU MULTICOUCHE DU TYPE AUTO-COMPLEMENTAIRE

Publication

**EP 3227960 A1 20171011 (FR)**

Application

**EP 15800865 A 20151126**

Priority

- FR 1402780 A 20141205
- EP 2015077766 W 20151126

Abstract (en)

[origin: WO2016087304A1] The invention relates to array antenna comprising a radiating structure made from an array of radiating elements (1) which consists of self-complementary patterns, said radiating surface being separated from a ground plane by a dielectric layer, said antenna comprising an array of metallic vias which extend through said dielectric layer between the radiating surface and the ground plane, each via being positioned opposite a given point (51, 52, 53, 54), referred to as a specific point, of a radiating element. The specific points can be positioned between two consecutive power supply points (11, 12, 13, 14) of a radiating element.

IPC 8 full level

**H01Q 5/307** (2015.01); **H01Q 9/04** (2006.01); **H01Q 9/06** (2006.01); **H01Q 9/28** (2006.01); **H01Q 21/06** (2006.01); **H01Q 21/24** (2006.01)

CPC (source: EP US)

**H01Q 1/523** (2013.01 - US); **H01Q 5/307** (2015.01 - EP US); **H01Q 9/0421** (2013.01 - EP US); **H01Q 9/065** (2013.01 - EP US); **H01Q 9/285** (2013.01 - EP US); **H01Q 21/062** (2013.01 - EP US); **H01Q 21/065** (2013.01 - EP US); **H01Q 21/24** (2013.01 - EP US); **H01Q 1/38** (2013.01 - US); **H01Q 1/42** (2013.01 - US)

Citation (search report)

See references of WO 2016087304A1

Designated contracting state (EPC)

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Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

**WO 2016087304 A1 20160609**; EP 3227960 A1 20171011; EP 3227960 B1 20200729; FR 3029693 A1 20160610; FR 3029693 B1 20161202; US 10170829 B2 20190101; US 2017338553 A1 20171123

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