

Title (en)

METHOD FOR MANUFACTURING A DIELECTRIC PART WITH MESHES FORMING A THREE-DIMENSIONAL SOLID LATTICE AND DIELECTRIC PART THUS MANUFACTURED

Title (de)

VERFAHREN ZUR HERSTELLUNG EINES DIELEKTRISCHEN TEILS MIT NETZEN, DIE EIN DREIDIMENSIONALES FESTES GITTER BILDEN, UND DADURCH HERGESTELLTES DIELEKTRISCHES TEIL

Title (fr)

PROCÉDÉ DE FABRICATION D'UNE PIÈCE DIÉLECTRIQUE À MAILLES FORMANT UN RÉSEAU SOLIDE TRIDIMENSIONNEL ET PIÈCE DIÉLECTRIQUE AINSI FABRIQUÉE

Publication

**EP 3231038 A1 20171018 (FR)**

Application

**EP 15817487 A 20151207**

Priority

- FR 1462076 A 20141208
- FR 2015053361 W 20151207

Abstract (en)

[origin: WO2016092191A1] The present invention relates to a method for manufacturing a dielectric part in which a plurality of dielectric materials are interlocked, at least one of which is in solid state, and having at least one relative electromagnetic constant  $\epsilon_r$ ,  $\mu_r$  with various values, by selecting (15) an interlocking structure formed by a three-dimensional solid lattice made up of a repetition in three directions of space of meshes of at least one solid dielectric material. The dielectric part is manufactured (16) by three-dimensional printing of the three-dimensional solid lattice such that the part has at least one predetermined tensor  $[\epsilon_r]$ ,  $[\mu_r]$  of at least one relative electromagnetic constant  $\epsilon_r$ ,  $\mu_r$ .

IPC 8 full level

**H01Q 15/00** (2006.01)

CPC (source: EP)

**H01Q 15/0086** (2013.01)

Citation (search report)

See references of WO 2016092191A1

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)

**FR 3029695 A1 20160610; FR 3029695 B1 20171208**; DK 3231038 T3 20200414; EP 3231038 A1 20171018; EP 3231038 B1 20200108; ES 2784328 T3 20200924; WO 2016092191 A1 20160616

DOCDB simple family (application)

**FR 1462076 A 20141208**; DK 15817487 T 20151207; EP 15817487 A 20151207; ES 15817487 T 20151207; FR 2015053361 W 20151207