Title (en)

WIFI ANTENNA OF THE CLOVER-LEAF OR SKEW-PLANAR WHEEL TYPE FOR A DRONE

Title (de)

WLAN-ANTENNE VOM TYP CLOVER-LEAF ODER SKEW-PLANAR WHEEL FÜR DROHNE

Title (fr)

ANTENNE WIFI DE TYPE CLOVER-LEAF OU SKEW-PLANAR WHEEL POUR DRONE

Publication

EP 3261175 A1 20171227 (FR)

Application

EP 17174470 A 20170606

Priority

FR 1655839 A 20160623

Abstract (en)

[origin: US2017373382A1] An antenna includes one or more elementary antennas with non-coplanar planar loops extending about a main axis in respective inclined planes. Each elementary antenna is formed by tracks of a structure printed on a circuit support extending in the inclined plane, with two imbricated planar loops tuned on frequencies includes in two respective distinct WiFi frequency bands. With a flexible circuit support, an antenna housing of the drone includes a conformed hollow cavity comprising a plurality of inclined planar faces, which are the counterparts of the inclined planes of the elementary antennas, against which bear these latter after deformation of the flexible support.

Abstract (fr)

Cette antenne (100) comprend une pluralité d'antennes élémentaires (102) avec des boucles planes non coplanaires s'étendant autour d'un axe principal dans des plans respectifs inclinés. Chaque antenne élémentaire (102) est formée par des pistes d'une structure imprimée sur un support de circuit (124) s'étendant suivant le plan incliné, avec deux boucles planes imbriquées accordées sur des fréquences comprises dans deux bandes de fréquences WiFi respectives distinctes. Avec un support de circuit (124) flexible, un logement d'antenne (26) du drone comprend une empreinte creuse conformée avec une pluralité de faces planes inclinées (28), homologues des plans inclinés des antennes élémentaires (102), contre lesquelles viennent en appui celles-ci après déformation du support flexible.

IPC 8 full level

H01Q 1/28 (2006.01); **H01Q 1/38** (2006.01); **H01Q 5/364** (2015.01); **H01Q 5/42** (2015.01); **H01Q 7/00** (2006.01); **H01Q 11/14** (2006.01); **H01Q 21/20** (2006.01); **H01Q 21/24** (2006.01); **H01Q 21/29** (2006.01)

CPC (source: EP US)

H01Q 1/2291 (2013.01 - US); **H01Q 1/28** (2013.01 - US); **H01Q 1/286** (2013.01 - EP US); **H01Q 1/287** (2013.01 - US); **H01Q 1/38** (2013.01 - EP US); **H01Q 5/30** (2015.01 - US); **H01Q 5/364** (2015.01 - EP US); **H01Q 5/42** (2015.01 - EP US); **H01Q 7/00** (2013.01 - EP US); **H01Q 11/14** (2013.01 - EP US); **H01Q 21/205** (2013.01 - EP US); **H01Q 21/24** (2013.01 - EP US); **H01Q 21/29** (2013.01 - EP US)

Citation (search report)

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- [A] US 2011063180 A1 20110317 - SU SAOU-WEN [TW]
- [A] ANONYMOUS: "The Cloverleaf FPV Antenna - RCExplorer", 28 August 2011 (2011-08-28), XP055420093, Retrieved from the Internet <URL:https://rcexplorer.se/projects/2011/08/the-cloverleaf-fpv-antenna/> [retrieved on 20171030]

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

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