

Title (en)

Nested-loop antenna system and vehicle including such an antenna system

Title (de)

Antennensystem mit ineinander verschachtelten Regelkreisen und Fahrzeug, das ein solches Antennensystem umfasst

Title (fr)

Système antenne à boucles imbriquées et véhicule comprenant un tel système antenne.

Publication

EP 2736118 B1 20200415 (FR)

Application

EP 13194112 A 20131122

Priority

FR 1203159 A 20121123

Abstract (en)

[origin: EP2736118A1] The system has electrically conductive filiform elements (8a, 8b) forming a loop portion, where the filiform elements have different length with respect to one another. The length of one of the filiform elements is more than 50 % longer than length of the other filiform element. A fastening base (10) fastens the filiform elements. The fastening base includes an electrically conductive part in which ends of each filiform element are fastened. An antenna tuning unit (12) is electrically connected to the electrically conductive part to supply the elements with same radiofrequency signal.

IPC 8 full level

H01Q 1/32 (2006.01); **H01Q 7/00** (2006.01); **H01Q 21/06** (2006.01); **H01Q 21/30** (2006.01)

CPC (source: EP US)

H01Q 1/3275 (2013.01 - EP US); **H01Q 7/00** (2013.01 - EP US); **H01Q 21/06** (2013.01 - EP US); **H01Q 21/28** (2013.01 - US); **H01Q 21/30** (2013.01 - EP US)

Citation (examination)

- JP 2010119067 A 20100527 - TOYOTA CENTRAL RES & DEV, et al
- US 2004216676 A1 20041104 - WILCOXSON MARK H [US], et al
- JP 2010200207 A 20100909 - NEC CORP, et al
- US 2010117454 A1 20100513 - COOK NIGEL P [US], et al
- US 6906672 B1 20050614 - MILLER PAUL E [US], et al
- US 6696954 B2 20040224 - CHUNG KEVIN KWONG-TAI [US]
- US 5442368 A 19950815 - HARADA TAKUJI [JP], et al

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

DOCDB simple family (publication)

EP 2736118 A1 20140528; EP 2736118 B1 20200415; ES 2802774 T3 20210121; FR 2998722 A1 20140530; FR 2998722 B1 20160415; MY 181340 A 20201221; US 2014145905 A1 20140529; US 9559420 B2 20170131

DOCDB simple family (application)

EP 13194112 A 20131122; ES 13194112 T 20131122; FR 1203159 A 20121123; MY PI2013702241 A 20131122; US 201314088183 A 20131122