

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 A1 20140528 (FR)

Application

EP 13194112 A 20131122

Priority

FR 1203159 A 20121123

Abstract (en)

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.

Abstract (fr)

Système antenne à boucle comportant un premier élément filiforme (8a, 8b) conducteur électriquement et formant une portion de boucle. Le système antenne (4) comporte en outre un deuxième élément filiforme (8a, 8b) conducteur électriquement et formant une portion de boucle, et les deux éléments filiformes (8a, 8b) présentent des longueurs (l a , l b) différentes l'une de l'autre. Véhicule (2) comprenant un tel système antenne (4).

IPC 8 full level

H01Q 7/00 (2006.01); **H01Q 1/32** (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 (applicant)

FR 2829622 A1 20030314 - THALES SA [FR]

Citation (search report)

- [XYI] EP 1246299 A2 20021002 - MATSUSHITA ELECTRIC IND CO LTD [JP]
- [X] US 4217591 A 19800812 - CZERWINSKI WATSON P [US]
- [Y] US 2012056790 A1 20120308 - LEE CHENG-TSE [TW], et al
- [A] EP 0897200 A1 19990217 - THOMSON CSF [FR]

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)

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