

Title (en)

TRANSMISSION AND/OR RECEIVING DEVICE FOR INSTALLATION IN ELASTIC STRUCTURES

Title (de)

SENDE- UND/ODER EMPFANGSEINRICHTUNG ZUM EINBAU IN ELASTISCHE STRUKTUREN

Title (fr)

DISPOSITIF D'ÉMISSION ET/OU DE RÉCEPTION DESTINÉ À ÊTRE MONTÉ DANS DES STRUCTURES ÉLASTIQUES

Publication

EP 2619846 A1 20130731 (DE)

Application

EP 11743240 A 20110815

Priority

- DE 102010037686 A 20100921
- EP 2011064012 W 20110815

Abstract (en)

[origin: WO2012038156A1] The invention relates to a transponder for installation in an elastomer matrix of an air spring having an antenna (1) which consists of one or more filaments (2, 3) which are deformable in an elastic and/or plastic manner and which are wound to a predetermined antenna length L in a helical shape. The aim of the invention is to improve the range of the emitted radio waves. Said aim is achieved in that the antenna (1) has a length between 40 and 100mm at a coil density of 5 to 15 coils per cm of antenna length, wherein the antenna has an optimal length of 55mm at a coil density of 13.4 coils/cm and an optimal length of 70mm at 6.7 coils/cm.

IPC 8 full level

H01Q 1/22 (2006.01); **H01Q 11/08** (2006.01)

CPC (source: EP US)

H01Q 1/2241 (2013.01 - EP US); **H01Q 11/08** (2013.01 - EP US)

Citation (search report)

See references of WO 2012038156A1

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)

DE 102010037686 A1 20120322; CN 103119783 A 20130522; CN 103119783 B 20160803; EP 2619846 A1 20130731; US 2013214991 A1 20130822; US 9105982 B2 20150811; WO 2012038156 A1 20120329

DOCDB simple family (application)

DE 102010037686 A 20100921; CN 201180044203 A 20110815; EP 11743240 A 20110815; EP 2011064012 W 20110815; US 201313848604 A 20130321