

Title (en)

ANTENNA STRUCTURE WITH IMPROVED SIGNAL/NOISE RATIO

Title (de)

ANTENNENANORDNUNG MIT VERBESSERTEM SIGNAL/RAUSCHVERHÄLTNIS

Title (fr)

STRUCTURE D'ANTENNE AVEC RAPPORT SIGNAL/BRUIT AMÉLIORÉ

Publication

EP 2580807 B1 20190724 (DE)

Application

EP 11733603 A 20110614

Priority

- EP 10165892 A 20100614
- EP 2011059807 W 20110614
- EP 11733603 A 20110614

Abstract (en)

[origin: EP2400591A1] The arrangement (100) has a coupling electrode (36, 36') electrically coupled to a conductive coating (6) for extracting interfering signals of interference sources (39, 39') from a flat top antenna. The electrode comprises coupling surfaces (40, 40'), and a conductive structure comprises another coupling surface that is capacitively coupled to the former coupling surfaces. The coupling surfaces are designed such that the coupling surfaces selectively allow transmission of a frequency range that corresponds to the interfering signals to be extracted from the flat top antenna. An independent claim is also included for a method for operating an antenna arrangement.

IPC 8 full level

H01Q 1/12 (2006.01); **H01Q 1/44** (2006.01); **H01Q 1/48** (2006.01); **H01Q 1/50** (2006.01)

CPC (source: EP KR US)

H01Q 1/1285 (2013.01 - EP US); **H01Q 1/24** (2013.01 - KR); **H01Q 1/27** (2013.01 - US); **H01Q 1/38** (2013.01 - KR);
H01Q 1/44 (2013.01 - EP US); **H01Q 1/48** (2013.01 - EP KR US); **H01Q 1/50** (2013.01 - EP US)

Citation (examination)

- WO 9323890 A1 19931125 - KOLBE & CO HANS [DE], et al
- EP 0961342 A2 19991201 - GEN MOTORS CORP [US]
- FR 2608844 A1 19880624 - CENTRAL GLASS CO LTD [JP]

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 2400591 A1 20111228; BR 112012022652 A2 20161101; CN 102934282 A 20130213; CN 102934282 B 20151014; EA 030071 B1 20180629; EA 201291353 A1 20130430; EP 2580807 A2 20130417; EP 2580807 B1 20190724; ES 2749880 T3 20200324; JP 2013534095 A 20130829; JP 5650840 B2 20150107; KR 101513787 B1 20150420; KR 20130079392 A 20130710; MX 2012011447 A 20130207; PL 2580807 T3 20200131; PT 2580807 T 20191031; US 2013141289 A1 20130606; US 9929464 B2 20180327; WO 2011157689 A2 20111222; WO 2011157689 A3 20120315

DOCDB simple family (application)

EP 10165892 A 20100614; BR 112012022652 A 20110614; CN 201180029465 A 20110614; EA 201291353 A 20110614; EP 11733603 A 20110614; EP 2011059807 W 20110614; ES 11733603 T 20110614; JP 2013514681 A 20110614; KR 20127029410 A 20110614; MX 2012011447 A 20110614; PL 11733603 T 20110614; PT 11733603 T 20110614; US 201113581754 A 20110614