

Title (en)  
Stacked patch antenna array

Title (de)  
Schichtartig aufgebaute Patch-Gruppenantenne

Title (fr)  
Réseau d'antennes à plaques empliées

Publication  
**EP 2159878 A1 20100303 (EN)**

Application  
**EP 08163188 A 20080828**

Priority  
EP 08163188 A 20080828

Abstract (en)  
A radiating element board for use in a passive antenna, the radiating element board comprising a plurality of multi-layer radiating elements, each of which comprises a first patch (11) provided on a first layer for receiving signals within a first frequency band and a second patch (12) provided on a second layer for receiving signals within a second frequency band, wherein the plurality of radiating elements are arranged on the radiating element board such that each radiating element is sequentially rotated a predetermined angle from its neighbouring element, all elements being rotated in the same direction and in the same plane.

IPC 8 full level  
**H01Q 9/04** (2006.01); **H01Q 5/00** (2006.01); **H01Q 5/40** (2015.01); **H01Q 21/06** (2006.01)

CPC (source: EP)  
**H01Q 5/40** (2015.01); **H01Q 9/0414** (2013.01); **H01Q 9/0421** (2013.01); **H01Q 9/0457** (2013.01); **H01Q 21/065** (2013.01)

Citation (search report)

- [XY] FR 2552938 A1 19850405 - DASSAULT ELECTRONIQUE [FR]
- [XY] EP 0270209 A2 19880608 - STC PLC [GB]
- [Y] US 5245745 A 19930921 - JENSEN PAUL C [US], et al
- [A] US 6697019 B1 20040224 - HYUK-JOON KWON [KR], et al
- [A] GB 2238665 A 19910605 - KOKUSAI DENSHIN DENWA CO LTD [JP]
- [A] MACI S ET AL: "DUAL-FREQUENCY PATCH ANTENNAS", IEEE ANTENNAS AND PROPAGATION MAGAZINE, IEEE SERVICE CENTER, PISCATAWAY, NJ, US, vol. 39, no. 6, 1 December 1997 (1997-12-01), pages 13 - 20, XP000727580, ISSN: 1045-9243

Cited by  
CN106597494A; CN107069215A; US2023253709A1; WO2020247558A3; US11404784B2; US11322833B2; US11509048B2; US11600915B2; US11652286B2; US11843168B2; US11688938B2

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)  
AL BA MK RS

DOCDB simple family (publication)  
**EP 2159878 A1 20100303**; EP 2359433 A1 20110824; EP 2359433 B1 20170927; ES 2644589 T3 20171129; WO 2010023454 A1 20100304

DOCDB simple family (application)  
**EP 08163188 A 20080828**; EP 09809389 A 20090828; ES 09809389 T 20090828; GB 2009002087 W 20090828