

Title (en)
Array antenna

Title (de)
Gruppenantenne

Title (fr)
Antenne groupée

Publication
EP 2485329 B1 20160420 (DE)

Application
EP 11000921 A 20110204

Priority
EP 11000921 A 20110204

Abstract (en)
[origin: EP2485329A1] The array antenna comprises an antenna base plate (P) having multiple radiating elements (SE) that are arranged in a regular grid. A dielectric wide angle impedance match layer (W) is arranged before the radiating elements for impedance matching for large pivot angle. The wide angle impedance match layer is a monolithic layer, where the grid of a spacer (A) corresponds with the grid of the antenna element.

IPC 8 full level
H01Q 15/00 (2006.01); **H01Q 19/02** (2006.01); **H01Q 21/06** (2006.01)

CPC (source: BR EP US)
H01Q 19/023 (2013.01 - BR EP US); **H01Q 21/061** (2013.01 - EP US); **H01Q 21/061** (2013.01 - BR); **Y10T 29/49016** (2015.01 - EP US)

Citation (examination)
• JP 2007013311 A 20070118 - MURATA MANUFACTURING CO
• E. MAGILL ET AL: "Wide-angle impedance matching of a planar array antenna by a dielectric sheet", IEEE TRANSACTIONS ON ANTENNAS AND PROPAGATION, vol. 14, no. 1, 1 January 1966 (1966-01-01), pages 49 - 53, XP055019127, ISSN: 0096-1973, DOI: 10.1109/TAP.1966.1138622

Designated contracting state (EPC)
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DOCDB simple family (publication)
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BR 102012002423 A2 20160809; BR 102012002423 B1 20211103; ES 2583753 T3 20160922; IN 209DE2012 A 20150619;
JP 2012165382 A 20120830; US 2012200474 A1 20120809; US 9397408 B2 20160719

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JP 2012021836 A 20120203; US 201213365620 A 20120203