

Title (en)
Vehicle antenna array

Title (de)
Antennengruppe für ein Kraftfahrzeug

Title (fr)
Réseau d'antennes pour automobile

Publication
EP 1686646 A1 20060802 (EN)

Application
EP 06100998 A 20060127

Priority
IT VI20050023 A 20050128

Abstract (en)
A motor vehicle (A) antenna array (1), of the kind coupled with a substantially flat dielectric system (2), comprising: a first plurality of mutually interconnected electrically conductive elements (3) coupled with a feeding source (4); a second plurality of electrically conductive elements (5), each connected with a pair of conductors of the first plurality of conductive elements (3) to form a composite structure in which one or more substantially polygonal shapes are defined; a feeding element (6) capacitively coupled with the first and second conductive elements (3, 5). The feeding element (6) comprises two or more extraction points of the radiofrequency signals (10, 11) that the antenna array (1) is able to receive. The extraction points (10, 11) are mutually spaced according to a distance substantially equivalent to the half of one of the wavelength related to the radiofrequency signals that said antenna array (1) is able to receive.

IPC 8 full level
H01Q 1/12 (2006.01); **H01Q 21/28** (2006.01)

CPC (source: EP)
H01Q 1/1278 (2013.01); **H01Q 21/28** (2013.01)

Citation (search report)
• [DA] US 2003197650 A1 20031023 - WALTON ERIC K [US], et al
• [A] WO 02056412 A2 20020718 - NIPPON SHEET GLASS CO LTD [JP], et al
• [X] PATENT ABSTRACTS OF JAPAN vol. 007, no. 162 (E - 187) 15 July 1983 (1983-07-15)

Cited by
CN102934282A

Designated contracting state (EPC)
DE FR IT

DOCDB simple family (publication)
EP 1686646 A1 20060802; DE 202006020814 U1 20100527; IT VI20050023 A1 20060729

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