

Title (en)

Aperture coupled radar antenna with radiating surfaces

Title (de)

Schlitzgekoppelte Radarantenne mit Strahlungsflächen

Title (fr)

Antenne radar à couplage d'ouverture aux surfaces rayonnants

Publication

**EP 1469552 A3 20041222 (DE)**

Application

**EP 04003723 A 20040219**

Priority

DE 10318815 A 20030417

Abstract (en)

[origin: EP1469552A2] A radar antenna (10) for automobile use with at least one feed network (18) on a first side (20) of a high frequency substrate (22), a metallic surface (sic) (24) on its second side (26) opposite the feed network, having at least one radiation surface (28), which is excited via aperture (30) in the metal mass surface and a dielectric (32) to emit electromagnetic waves, where the radiation surface (28) is fixed to the housing (12). An independent claim is included for a process for preparation of the radar antenna as described above.

IPC 1-7

**H01Q 9/04**; **H01Q 1/40**; **H01Q 1/32**

IPC 8 full level

**H01Q 1/32** (2006.01); **H01Q 1/40** (2006.01); **H01Q 9/04** (2006.01)

CPC (source: EP US)

**H01Q 1/3208** (2013.01 - EP US); **H01Q 1/3233** (2013.01 - EP US); **H01Q 1/40** (2013.01 - EP US); **H01Q 1/405** (2013.01 - EP US); **H01Q 9/0457** (2013.01 - EP US)

Citation (search report)

- [XY] WO 0250952 A1 20020627 - BOSCH GMBH ROBERT [DE], et al
- [X] US 5355143 A 19941011 - ZUERCHER JEAN F [CH], et al
- [Y] US 5859614 A 19990112 - PAOLELLA ARTHUR C [US], et al
- [Y] WO 0072648 A1 20001130 - OMNIPOINT CORP [US]
- [Y] US 5945956 A 19990831 - IZAWA SHOGO [JP], et al
- [A] US 4973972 A 19901127 - HUANG JOHN [US]
- [A] US 6266015 B1 20010724 - HECKAMAN DOUGLAS E [US], et al
- [A] WO 9629756 A1 19960926 - MINNESOTA MINING & MFG [US]

Cited by

US9653807B2; US8545266B2; WO2010066434A1; WO2012034762A1

Designated contracting state (EPC)

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DOCDB simple family (publication)

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DOCDB simple family (application)

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