

Title (en)  
Glass antenna and window glass for vehicle

Title (de)  
Glasantenne und Fensterglas für Fahrzeuge

Title (fr)  
Antenne pour vitre et vitre de fenêtre pour véhicule

Publication  
**EP 2190057 B1 20160518 (EN)**

Application  
**EP 09014494 A 20091120**

Priority  
• JP 2008297257 A 20081120  
• JP 2009221396 A 20090925

Abstract (en)  
[origin: EP2190057A1] A glass antenna for a vehicle, includes: a feeding part provided in or on a window glass for the vehicle; and an antenna conductor, provided in or on the window glass, the antenna conductor including: a first antenna element, extending in a first direction from the feeding part; a second antenna element, extending in a second direction substantially perpendicular to the first direction from an end of extension of the first antenna element; a third antenna element, extending in a third direction opposite to the first direction from an end of extension of the second antenna element; and a fourth antenna element, extending in the second direction from an end of extension of the third antenna element.

IPC 8 full level  
**H01Q 5/357** (2015.01); **H01Q 1/12** (2006.01); **H01Q 1/32** (2006.01); **H01Q 5/00** (2015.01); **H01Q 5/10** (2015.01); **H01Q 5/378** (2015.01); **H01Q 9/42** (2006.01)

CPC (source: EP)  
**H01Q 1/1271** (2013.01); **H01Q 5/357** (2015.01); **H01Q 5/378** (2015.01); **H01Q 9/42** (2013.01)

Cited by  
EP2610959A3; EP2672565A4; EP3076480A1; CN106025485A; EP2581983A4; EP3477766A1; EP3101734A4; US9300031B2

Designated contracting state (EPC)  
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DOCDB simple family (publication)  
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