

Title (en)
VEHICULAR GLASS ANTENNA

Title (de)
GLASANTENNE FÜR FAHRZEUGE

Title (fr)
ANTENNE DE PARE-BRISE DE VÉHICULE

Publication
EP 3032639 A1 20160615 (EN)

Application
EP 15198343 A 20151208

Priority
JP 2014248199 A 20141208

Abstract (en)
A vehicular glass antenna includes a core wire-side power supplying section (20), a core wire-side antenna element (30) electrically connected to the core wire-side power supplying section, a ground-side power supplying section (40), and a ground-side antenna element (50) electrically connected to the ground-side power supplying section. The core wire-side antenna element includes a core wire-side first element (31) and a core wire-side second element (32). The core wire-side first element extends from the core-side power supplying section as a starting point along an edge of a window opening (5) of a vehicle body (1) in such a manner as to keep a first predetermined distance relative to a closest part of the edge of the window opening. The core wire-side second element extends from the core wire-side first element in a substantially vertical direction at a position (h1) separated by more than a prescribed distance from each of left and right edges (5b, 5d) of the window opening. The ground-side antenna element has a ground-side first element (51) extending from the ground-side power supplying section as a starting point along the core wire-side first element in such a manner as to keep a second predetermined distance relative to the core wire-side first element.

IPC 8 full level
H01Q 1/12 (2006.01); **H01Q 9/30** (2006.01); **H01Q 21/28** (2006.01)

CPC (source: EP)
H01Q 1/1271 (2013.01); **H01Q 21/28** (2013.01); **H01Q 9/30** (2013.01)

Citation (applicant)
• JP 2011193381 A 20110929 - CENTRAL GLASS CO LTD
• JP 2011160236 A 20110818 - ASAHI GLASS CO LTD

Citation (search report)
• [X] JP 2002299932 A 20021011 - CENTRAL GLASS CO LTD
• [I] JP 2002064317 A 20020228 - NIPPON SHEET GLASS CO LTD
• [XA] EP 2787573 A1 20141008 - CENTRAL GLASS CO LTD [JP]
• [XA] US 2004008144 A1 20040115 - KUBOTA MASATO [JP]
• [XA] EP 2503638 A1 20120926 - CENTRAL GLASS CO LTD [JP]

Cited by
WO2021215396A1

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

Designated extension state (EPC)
BA ME

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EP 3032639 A1 20160615; EP 3032639 B1 20200422; JP 2016111556 A 20160620; JP 6527325 B2 20190605

DOCDB simple family (application)
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