

Title (en)  
GLASS ANTENNA

Title (de)  
GLASANTENNE

Title (fr)  
ANTENNE POUR VITRE

Publication  
**EP 3499639 A1 20190619 (EN)**

Application  
**EP 18210663 A 20181206**

Priority  
JP 2017238739 A 20171213

Abstract (en)  
Disclosed is a glass antenna 10 which comprises: an FM-digital radio antenna element 20 configured to receive a high-frequency signal in an FM broadcast band of which center-frequency wavelength is a first wavelength and a high-frequency signal in a digital radio broadcast band of which center-frequency wavelength is a second wavelength; a first conductor wire 30 formed to have a length set based on a length equal to one-half of the second wavelength; a second conductor wire 40 connected to one end of the first conductor wire 30, wherein the second conductor wire is formed to have a length set based on a length equal to one-quarter of the second wavelength, and disposed adjacent to the FM-digital radio antenna element 20 such that it is capacitively coupled with the FM-digital radio antenna element 20; and a feeding terminal 45 connected to the other end of the first conductor wire 30, wherein the feeding terminal 45 is disposed on a vehicle-width directional outer portion of the vehicle window glass 1 to be covered by a rear pillar cover 2.

IPC 8 full level  
**H01Q 1/12** (2006.01); **H01Q 1/32** (2006.01); **H01Q 5/364** (2015.01); **H01Q 5/371** (2015.01); **H01Q 5/378** (2015.01); **H01Q 9/42** (2006.01)

CPC (source: EP)  
**H01Q 1/1271** (2013.01); **H01Q 1/3208** (2013.01); **H01Q 5/364** (2015.01); **H01Q 5/378** (2015.01); **H01Q 9/42** (2013.01); **H01Q 1/1278** (2013.01)

Citation (applicant)  
JP 2015142162 A 20150803 - CENTRAL GLASS CO LTD

Citation (search report)  
• [XII] EP 3101733 A1 20161207 - CENTRAL GLASS CO LTD [JP]  
• [XAI] EP 3101734 A1 20161207 - CENTRAL GLASS CO LTD [JP]  
• [A] WO 2017208569 A1 20171207 - MAZDA MOTOR [JP]  
• [A] EP 2159872 A1 20100303 - ASAHI GLASS CO LTD [JP]

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

DOCDB simple family (publication)  
**EP 3499639 A1 20190619; EP 3499639 B1 20211013**; JP 2019106642 A 20190627; JP 6540782 B2 20190710

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