

Title (en)

Glass antenna and vehicular window glass including the same

Title (de)

Glasantenne und Fahrzeugfensterscheibe, die diese Antenne beinhaltet

Title (fr)

Antenne de vitre et vitre de fenetre de vehicule la comportant

Publication

**EP 2355237 A1 20110810 (EN)**

Application

**EP 11000784 A 20110201**

Priority

JP 2010020749 A 20100201

Abstract (en)

A glass antenna which is provided on or in a window glass 23 includes an upper feeding portion 16 and a lower feeding portion 17 which are aligned in a vertical direction, a first L-shaped element which is formed into an L-shape geometry by an element 1a which extends from the upper feeding portion 16 as a starting point and an element 2a which extends from the element 1a as a starting point, a second L-shaped element which is formed into an L-shaped geometry by an element 3 which extends rightwards from the lower feeding portion 17 as a starting point and an element 4 which extends downwards from the element 3 as a starting point, an element 5 which extends upwards from the upper feeding portion 16 as a starting point and an element 6 which extends downwards from the lower feeding portion 17 as a starting point.

IPC 8 full level

**H01Q 1/12** (2006.01); **H01Q 1/32** (2006.01); **H01Q 5/00** (2006.01); **H01Q 5/10** (2015.01); **H01Q 5/371** (2015.01); **H01Q 9/30** (2006.01); **H01Q 21/30** (2006.01)

CPC (source: EP KR)

**H01Q 1/1271** (2013.01 - EP); **H01Q 1/32** (2013.01 - KR); **H01Q 1/46** (2013.01 - KR); **H01Q 5/40** (2015.01 - EP); **H01Q 21/30** (2013.01 - EP)

Citation (applicant)

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- JP 2000307321 A 20001102 - FORD MOTOR CO, et al
- US 6924771 B2 20050802 - LI HSUEH-JYH [TW], et al
- EP 1732160 A1 20061213 - MATSUSHITA ELECTRIC IND CO LTD [JP]

Citation (search report)

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- [I] EP 1414109 A2 20040428 - CENTURION WIRELESS TECH INC [US]
- [I] WO 2005122333 A1 20051222 - SANDBRIDGE TECHNOLOGIES INC [US]
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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 2355237 A1 20110810**; **EP 2355237 B1 20171025**; JP 2011160236 A 20110818; KR 20110089827 A 20110809

DOCDB simple family (application)

**EP 11000784 A 20110201**; JP 2010020749 A 20100201; KR 20110010040 A 20110201