

Title (en)  
Glass antenna and window glass

Title (de)  
Glasantenne und Fensterglas

Title (fr)  
Antenne de verre et verre de vitre

Publication  
**EP 2712020 B1 20170531 (EN)**

Application  
**EP 13004605 A 20130920**

Priority  
JP 2012207448 A 20120920

Abstract (en)  
[origin: EP2712020A1] A glass antenna that is arranged at a window glass of a vehicle includes a first feeding portion (1) and a second feeding portion (2) that are arranged one above the other, a first antenna conductor (10) that is connected to the first feeding portion, and a second antenna conductor (20) that is connected to the second feeding portion. The first antenna conductor (10) includes a first antenna element (11) that extends in a substantially horizontal direction and is connected to the first feeding portion (1) either directly or via a first connection element (41). The second antenna conductor (20) includes a second antenna element (21) that is arranged into a loop and is connected to the second feeding portion (2) either directly or via a second connection element (42), a third antenna element (22) that extends along the second antenna element (21) and is connected to the second antenna element (21) via a third connection element (43), and a fourth antenna element (23) that extends at an opposite side of the second feeding portion (2) with respect to the second antenna element (21) and is connected to the third antenna element (22).

IPC 8 full level  
**H01Q 1/12** (2006.01)

CPC (source: EP)  
**H01Q 1/1271** (2013.01)

Cited by  
EP3096397A1; US9985333B2

Designated contracting state (EPC)  
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DOCDB simple family (publication)  
**EP 2712020 A1 20140326; EP 2712020 B1 20170531**; JP 2014064141 A 20140410; JP 6007700 B2 20161012

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