

Title (en)  
Film antenna device

Title (de)  
Folienantennenvorrichtung

Title (fr)  
Antenne sur film.

Publication  
**EP 2634861 A1 20130904 (EN)**

Application  
**EP 13157120 A 20130228**

Priority  
JP 2012042677 A 20120229

Abstract (en)  
A film antenna device which is attached to an attachment object, including a film antenna unit which includes a film including a bonding surface on one side and an antenna element formed on the film; a circuit board unit which is electrically connected to the antenna element; a bonding member including a first and a second bonding surfaces wherein the first bonding surface is bonded to the circuit board unit and the second bonding surface is bonded to an end portion of the film antenna unit; and a case unit which houses the circuit board unit, the bonding member and the end portion of the film antenna unit, wherein the case unit includes a top case and a bottom case, and the bottom case includes a film antenna supporting unit which pushes the film antenna unit against the bonding member.

IPC 8 full level  
**H01Q 1/12** (2006.01); **H01Q 1/32** (2006.01)

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

Citation (applicant)  
• JP 2000295023 A 20001020 - HARADA IND CO LTD  
• JP 2000196327 A 20000714 - HARADA IND CO LTD

Citation (search report)  
• [X] JP 2001185923 A 20010706 - HARADA IND CO LTD  
• [X] EP 1760825 A1 20070307 - ALPS ELECTRIC CO LTD [JP]  
• [X] FR 2627906 A1 19890901 - ZENDAR SPA [IT]  
• [A] EP 1901392 A1 20080319 - NIPPON SHEET GLASS CO LTD [JP], et al

Cited by  
EP3447846A1; CN111164834A; EA039304B1; US11387549B2; WO2019038075A1

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 2634861 A1 20130904; EP 2634861 B1 20180530**; JP 2013179510 A 20130909; JP 5929314 B2 20160601

DOCDB simple family (application)  
**EP 13157120 A 20130228**; JP 2012042677 A 20120229