

Title (en)
VEHICULAR ANTENNA DEVICE

Title (de)
FAHRZEUGANTENNENVORRICHTUNG

Title (fr)
DISPOSITIF D'ANTENNE DE VÉHICULE

Publication
EP 3859885 A1 20210804 (EN)

Application
EP 21153896 A 20210128

Priority
JP 2020012765 A 20200129

Abstract (en)
A vehicular antenna device includes a first antenna, a second antenna, a first feeding unit, a second feeding unit, and a combiner unit. The first antenna is operable in a first frequency band. The second antenna is operable in a second frequency band different from the first frequency band. The first feeding unit is connected to the first antenna. The second feeding unit is connected to the second antenna. The combiner unit combines a signal from the first feeding unit and a signal from the second feeding unit.

IPC 8 full level
H01Q 1/32 (2006.01); **H01Q 5/40** (2015.01); **H01Q 21/30** (2006.01)

CPC (source: EP)
H01Q 1/3275 (2013.01); **H01Q 1/362** (2013.01); **H01Q 1/521** (2013.01); **H01Q 21/28** (2013.01)

Citation (applicant)
• JP 2020012765 A 20200123 - REXXAM CO LTD
• JP 2015142379 A 20150803 - HYUNDAI MOTOR COMPANY CO LTD, et al

Citation (search report)
• [X] US 2012057588 A1 20120308 - DUZDAR AYMAN [US], et al
• [X] US 2015333392 A1 20151119 - THIAM CHEIKH T [US], et al
• [X] KR 20120016410 A 20120224 - INFAC ELECS CO LTD [KR]
• [X] US 2009237313 A1 20090924 - MARTINEZ ORTIGOSA ENRIQUE [ES]

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 3859885 A1 20210804; **EP 3859885 B1 20231206**; JP 2021118521 A 20210810; JP 7454389 B2 20240322

DOCDB simple family (application)
EP 21153896 A 20210128; JP 2020012765 A 20200129