

Title (en)

ANTENNA ARRAY WITH AT LEAST ONE DIPOLE-TYPE EMITTER ARRANGEMENT

Title (de)

ANTENNENANORDNUNG MIT ZUMINDEST EINER DIPOLFÖRMIGEN STRAHLERANORDNUNG

Title (fr)

ANTENNE RÉSEAU POURVUE D'AU MOINS UN ENSEMBLE ÉLÉMENT RAYONNANT DE TYPE DIPÔLE

Publication

EP 3482450 A1 20190515 (DE)

Application

EP 17735116 A 20170704

Priority

- DE 102016112257 A 20160705
- EP 2017066561 W 20170704

Abstract (en)

[origin: WO2018007348A1] An antenna array (20) with at least one dipole-type emitter arrangement (1), wherein the at least one dipole-type emitter arrangement (1) comprises two pairs (2, 3) of emitter halves (2a, 2b, 3a, 3b), which transmit and/or receive on two polarization planes (4a, 4b) that are perpendicular to one another. The emitter halves (2a, 2b, 3a, 3b) can be or are arranged on an emitter plane (5) at a distance from a reflector (6) and run parallel to said reflector. Two electrically conductive partial circumferential frames (15a, 15b, 15c) are provided, which are disposed between the emitter plane (5) and the reflector (6) at a distance from one another, wherein the at least two electrically conductive partial circumferential frames (15a, 15b, 15c) define one opening (17). The at least two partial circumferential frames (15a, 15b, 15c) are oriented parallel to the emitter plane (5). Each of the two partial circumferential frames (15a, 15b, 15c) comprises at least one gap (16), which extends through the entire width of the partial circumferential frame (15a, 15b, 15c), so that each partial circumferential frame (15a, 15b, 15c) comprises at least two ends.

IPC 8 full level

H01Q 1/24 (2006.01); **H01Q 5/385** (2015.01); **H01Q 9/28** (2006.01); **H01Q 19/30** (2006.01)

CPC (source: EP KR US)

H01Q 1/241 (2013.01 - US); **H01Q 1/246** (2013.01 - EP KR US); **H01Q 5/385** (2015.01 - EP KR US); **H01Q 9/28** (2013.01 - EP KR US); **H01Q 19/30** (2013.01 - EP KR US); **H01Q 25/001** (2013.01 - KR US); **H01Q 25/001** (2013.01 - EP)

Citation (search report)

See references of WO 2018007348A1

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)

DE 102016112257 A1 20180111; AU 2017294435 A1 20181206; CN 109417219 A 20190301; CN 109417219 B 20201222; EP 3482450 A1 20190515; EP 3482450 B1 20201028; KR 20190027840 A 20190315; US 10854997 B2 20201201; US 2019312362 A1 20191010; WO 2018007348 A1 20180111

DOCDB simple family (application)

DE 102016112257 A 20160705; AU 2017294435 A 20170704; CN 201780039684 A 20170704; EP 17735116 A 20170704; EP 2017066561 W 20170704; KR 20197002607 A 20170704; US 201716315024 A 20170704