

Title (en)
Primary radiator and antenna apparatus

Title (de)
Primärstrahler und Antennenvorrichtung

Title (fr)
Radiateur primaire et appareil d'antenne

Publication
EP 2565984 A1 20130306 (EN)

Application
EP 12174634 A 20120702

Priority
• JP 2011185918 A 20110829
• JP 2012048076 A 20120305

Abstract (en)
Disclosed is a primary radiator in which a central portion (3) of a subreflector (2) is formed in a conical shape, grooves (4) extending, in relation to their depth direction, parallel to an axis of a circular waveguide (1) are formed cylindrically in a surrounding portion of the subreflector (2) surrounding the central portion (3) formed in a conical shape, and a portion extending from the grooves (4) formed in the surrounding portion of the subreflector (2) to a peripheral portion (5) of the subreflector (2) has a sloped structure which is formed in such a way that the peripheral portion (5) projects toward the circular waveguide (1).

IPC 8 full level
H01Q 1/52 (2006.01); **H01Q 19/13** (2006.01); **H01Q 19/19** (2006.01)

CPC (source: EP)
H01Q 1/528 (2013.01); **H01Q 19/134** (2013.01); **H01Q 19/193** (2013.01)

Citation (applicant)
WO 2006064536 A1 20060622 - MITSUBISHI ELECTRIC CORP [JP], et al

Citation (search report)
• [XDYI] WO 2006064536 A1 20060622 - MITSUBISHI ELECTRIC CORP [JP], et al
• [XY] US 2001005180 A1 20010628 - KARLSSON HAKAN [SE], et al
• [Y] WO 9617402 A1 19960606 - AVNET INC [US], et al
• [Y] WO 2009010894 A2 20090122 - COMMScope INC [US], et al
• [Y] US 2006082513 A1 20060420 - KRALOVEC JAY [US], et al
• [A] JP S62202605 A 19870907 - NEC CORP

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EP3913745A4; CN113140897A; EP3561956A1; US11367958B2; US10727607B2; WO2022063479A1

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 2565984 A1 20130306; **EP 2565984 B1 20190821**; JP 2013066152 A 20130411; JP 5854888 B2 20160209

DOCDB simple family (application)
EP 12174634 A 20120702; JP 2012048076 A 20120305