

Title (en)

COOLING DEVICE FOR ANTENNA APPARATUS

Title (de)

KÜHLVORRICHTUNG FÜR ANTENNENVORRICHTUNG

Title (fr)

DISPOSITIF DE REFROIDISSEMENT POUR APPAREIL D'ANTENNE

Publication

EP 4068503 A4 20231220 (EN)

Application

EP 20892918 A 20201125

Priority

- KR 20190151879 A 20191125
- KR 2020016769 W 20201125

Abstract (en)

[origin: EP4068503A1] The present invention relates to a cooling device for an antenna apparatus. Particularly, the cooling device comprises a heat-dissipating cover which has an inner surface exposed to a thermal space and an outer surface exposed to the outside where outside air flows, and multiple wave heat-dissipating fins which are disposed in multiple rows on the outer surface of the heat-dissipating cover so as to be thermally conductive, and form curved surfaces that are continuous from the outer surface of the heat-dissipating cover to a discretionary height, in which the horizontal cross-sections at the discretionary height have straight-line shapes in which same are rotated by a predetermined angle in any one direction from the horizontal cross-sections on the outer surface of the heat-dissipating cover. Therefore, the present invention provides the advantage of enhancing heat-dissipating performance.

IPC 8 full level

H01Q 1/02 (2006.01); **H05K 7/20** (2006.01); **H01Q 1/24** (2006.01)

CPC (source: EP KR)

H01Q 1/02 (2013.01 - EP KR); **H01Q 1/246** (2013.01 - EP)

Citation (search report)

- [XAY] JP H09252066 A 19970922 - MITSUBISHI ELECTRIC CORP
- [XAY] US 2007131386 A1 20070614 - TSAI MING-KUN [TW]
- [XA] US 6664928 B2 20031216 - OGAWA TAKAYA [JP], et al
- See also references of WO 2021107587A1

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

DOCDB simple family (publication)

EP 4068503 A1 20221005; **EP 4068503 A4 20231220**; CN 115053399 A 20220913; CN 215299480 U 20211224; KR 102463545 B1 20221109; KR 20210064091 A 20210602

DOCDB simple family (application)

EP 20892918 A 20201125; CN 202022758510 U 20201125; CN 202080081601 A 20201125; KR 20200159452 A 20201125