Title (en)

END COVER AND RADOME ASSEMBLY HAVING END COVER

Title (de)

ENDKAPPE UND RADOMANORDNUNG MIT ENDKAPPE

Title (fr)

COUVERCLE D'EXTRÉMITÉ ET ENSEMBLE RADÔME AYANT UN COUVERCLE D'EXTRÉMITÉ

Publication

EP 4307474 A1 20240117 (EN)

Application

EP 21929728 A 20210511

Priority

- CN 202110269862 A 20210312
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Abstract (en)

The present disclosure relates to an end cover and a radome assembly having the end cover. The end cover defines an end cover plane perpendicular to a longitudinal axis of the radome and passing through a connection part of the end cover and the radome. Outlines of a cross section of the end cover includes a first spline curve between a first end point and a first intermediate point having at least one first curvature, and a second spline curve between a second intermediate point and a third intermediate point having at least one second curvature. The first intermediate point and the second intermediate point are not in the end cover plane. A distance between the first intermediate point and the end cover plane and a distance between the second intermediate point and the end cover plane are equal and not less than a distance between any point on the cross section of the end cover and the end cover plane. The shape of the end cover is aerodynamically optimized and when assembled with the radome significantly reduces the wind resistance of the base station antenna, thus improving the reliability of the antenna mounted on the tower.

IPC 8 full level

H01Q 1/42 (2006.01)

CPC (source: CN EP)

H01Q 1/005 (2013.01 - CN EP); **H01Q 1/246** (2013.01 - EP); **H01Q 1/42** (2013.01 - CN EP)

Citation (search report)

See references of WO 2022188257A1

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