

Title (en)

REFLECTIVE ARRAY ANTENNA AND COMMUNICATION DEVICE

Title (de)

REFLEKTIERENDE ANTENNENGROUPE UND KOMMUNIKATIONSVORRICHTUNG

Title (fr)

ANTENNE DE RÉSEAU RÉFLÉCHISSANTE ET DISPOSITIF DE COMMUNICATION

Publication

**EP 3531508 B1 20220105 (EN)**

Application

**EP 16922860 A 20161130**

Priority

CN 2016108052 W 20161130

Abstract (en)

[origin: EP3531508A1] A reflective array antenna and a communications device are disclosed. The antenna includes: a feed array, a secondary reflective surface, and a primary reflective array. The feed array is capable of emitting an electromagnetic wave in a first polarization direction. The secondary reflective surface is configured to reflect the electromagnetic wave in the first polarization direction emitted by the feed array, and allows an electromagnetic wave in a second polarization direction to penetrate. The primary reflective array is configured to: convert the electromagnetic wave in the first polarization direction reflected by the secondary reflective surface into the electromagnetic wave in the second polarization direction and reflect the electromagnetic wave in the second polarization direction. In the foregoing technical solution, the secondary reflective surface can reflect the electromagnetic wave in the first polarization direction, and allows the electromagnetic wave in the second polarization direction to penetrate, so that the secondary reflective surface can be set to have a relatively large area and the electromagnetic wave emitted by the primary reflective array is not blocked. In this way, a required beam steering range can be achieved with relatively low costs, and a requirement on a directivity pattern during application can be met.

IPC 8 full level

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CPC (source: EP)

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