

Title (en)

Circularly polarized patch antenna using metal patch and transceiving array antenna using the same

Title (de)

Zirkularpolarisierte Patch-Antenne mit einem Metall-Patch, and eine diese verwendende Sende-/Empfangs-Gruppenantenne

Title (fr)

Antenne à plaque à polarisation circulaire avec une plaque métallique et réseau d'antennes d'émission/réception utilisant celle-ci

Publication

EP 1650830 A1 20060426 (EN)

Application

EP 04258202 A 20041231

Priority

KR 20040084343 A 20041021

Abstract (en)

Provided is a circularly polarized patch antenna using a metal patch and a transmitting/receiving array antenna. The antenna can induce impedance matching and improve axial ratio by using a simple metal radiating patch and a reflection plate and improving the electromagnetic connection characteristics between the reflection plate and the radiating patch. It has a simple structure and it can be produced at a low cost. The circularly polarized patch antenna includes: a radiating unit which is positioned in the upper part of the antenna and has a metal patch for transmitting/receiving circularly polarized signals; a reflecting unit which is positioned in the lower part of the radiating unit with an air layer of a predetermined space from the radiating unit and eliminates rear radiation of the radiating unit; and a power feeding unit for supplying power to the radiating unit.

IPC 8 full level

H01Q 9/04 (2006.01); **H01Q 1/52** (2006.01); **H01Q 21/24** (2006.01)

CPC (source: EP KR)

H01Q 1/38 (2013.01 - KR); **H01Q 1/523** (2013.01 - KR); **H01Q 1/525** (2013.01 - EP); **H01Q 9/0428** (2013.01 - EP KR); **H01Q 15/02** (2013.01 - KR); **H01Q 21/24** (2013.01 - EP KR)

Citation (search report)

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