

Title (en)

Flat antenna for the mobil satellite communication

Title (de)

Flachantenne für die mobile Satellitenkommunikation

Title (fr)

Antenne plate pour communication mobile via satellites

Publication

EP 1239543 B1 20060809 (DE)

Application

EP 02002836 A 20020208

Priority

- DE 10108910 A 20010223
- DE 10163793 A 20011222

Abstract (en)

[origin: CA2372625A1] An antenna for mobile satellite communication disposed on a substantially horizontally oriented conductive base surface having substantially linear conductor parts and an antenna connection point. The conductor parts have a substantially vertical extension portion, substantially horizontal extension portion which, together with the conductive base surface, form a high frequency conducting ring structure. The conductor parts are disposed in a plane, mounted perpendicular to the conductive base surface, and one of the vertical or horizontal extension portions is interrupted to form the antenna connection point. In a further interruption of one of the conductor parts, is provided at least one impedance connection point wired to an impedance. The positions of the impedance connection point and of the antenna connection point as well as the impedance are chosen so that, for the plane standing perpendicular to the conductive base surface, with waves polarized in this plane, the predetermined antenna gain values can be obtained for a predetermined elevation angle of the incident wave.

IPC 8 full level

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CPC (source: EP KR US)

H01Q 7/00 (2013.01 - EP US); **H01Q 9/26** (2013.01 - EP US); **H01Q 9/36** (2013.01 - EP US); **H01Q 9/42** (2013.01 - EP US); **H01Q 9/44** (2013.01 - KR); **H01Q 21/24** (2013.01 - EP US); **H01Q 21/26** (2013.01 - EP US)

Cited by

EP1445832A3; EP1947736A4; DE10209060B4; EP2226895A3; EP2226895A2; DE102009011542A1; US8537063B2; EP2424036A2; DE102010035934A1; EP2592691A1

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