

Title (en)

Antenna with fixed reflector for plural beams of communication systems

Title (de)

Antenne mit feststehendem Reflektor für mehrere Strahlen von Kommunikationssystemen

Title (fr)

Antenne à réflecteur fixe pour plusieurs faisceaux de télécommunications

Publication

EP 0546913 B1 19960417 (FR)

Application

EP 92403306 A 19921207

Priority

FR 9115376 A 19911211

Abstract (en)

[origin: JPH05308221A] PURPOSE: To provide an antenna capable of controlling plural beam directions by using a fixed reflector. CONSTITUTION: The antenna especially prepared for a domestic electric device, a cluster device or a community device can receive plural radio communication beams and includes especially a parabolic type fixed reflector 2 having a symmetrical axis Oz. At least one network of diffracting loop elements 31 to 34 is almost symmetrical about the axis Oz and arranged in parallel with the reflector. The network defines 1st and 2nd focuses F1 , F2 symmetrical about the axis Oz and can converge 1st and 2nd radio communication beams FS1 , FS2 sent almost in parallel with straight lines OF1 , OF2 passing the center O of the network and the 1st and 2nd focuses F1 , F2 to the focuses F1 , F2 . One very high frequency head can sweep a focal surface F1 OF2 along a focal line LF or plural very high frequency heads 41 to 47 are arranged on an arch 5 to receive or transmit plural beams though the reflector 2 is fixed.

IPC 1-7

H01Q 19/06; **H01Q 19/17**

IPC 8 full level

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CPC (source: EP US)

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EP 0546913 A1 19930616; **EP 0546913 B1 19960417**; DE 69209992 D1 19960523; DE 69209992 T2 19961128; ES 2086100 T3 19960616; FR 2685131 A1 19930618; FR 2685131 B1 19940527; JP H05308221 A 19931119; US 5283591 A 19940201

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