

Title (en)

Reflector based dielectric lens antenna system

Title (de)

Dielektrisches Linseantennensystem mit einem Reflektor

Title (fr)

Système d'antenne à lentille diélectrique avec réflecteur

Publication

EP 0929122 A3 20000809 (EN)

Application

EP 98121988 A 19981119

Priority

- US 475998 A 19980108
- US 11046298 A 19980707
- US 11068798 A 19980707

Abstract (en)

[origin: EP0929122A2] A bifocal lens for use in a multiple beam antenna system including a reflector that is at least partially parabolic in one dimension and a pair of waveguides. Multiple received beams are received and reflected by the reflector into an orthogonal mode junction which separates signals of a first polarity from signals of a second orthogonal polarity. The signals of the first polarity are forwarded into a first waveguide and the orthogonal signals of the second polarity are forwarded into a second parallel waveguide. A plurality of satellites may be accessed simultaneously thus allowing the user to utilize both signals at the same time. The bifocal lenses may be located in the waveguides, respectively, with each lens including a step portion defined in at least one edge thereof for matching purposes. <IMAGE>

IPC 1-7

H01Q 19/06; **H01Q 25/00**; **H01Q 5/00**; **H01Q 13/02**; **H01Q 19/17**

IPC 8 full level

H01Q 3/26 (2006.01); **H01Q 3/40** (2006.01); **H01Q 5/00** (2006.01); **H01Q 5/45** (2015.01); **H01Q 13/02** (2006.01); **H01Q 19/17** (2006.01); **H01Q 25/00** (2006.01)

CPC (source: EP)

H01Q 3/2658 (2013.01); **H01Q 3/40** (2013.01); **H01Q 5/45** (2015.01); **H01Q 13/0258** (2013.01); **H01Q 19/175** (2013.01); **H01Q 25/00** (2013.01); **H01Q 25/008** (2013.01)

Citation (search report)

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DOCDB simple family (application)

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