

Title (en)  
Circular polarity elliptical horn antenna

Title (de)  
Elliptische Hornantenne für zirkulare Polarisation

Title (fr)  
Antenne à cornet elliptique à polarité circulaire

Publication  
**EP 2131446 A2 20091209 (EN)**

Application  
**EP 09170732 A 20050518**

Priority  
• EP 05751776 A 20050518  
• US 57199804 P 20040518

Abstract (en)  
A relatively low cost, easy to install and aesthetically pleasing digital video broadcast from satellite (DVBS) elliptical horn antenna designed as part of a reflector antenna system (300) to receive satellite television broadcast signals with circular polarity. This type antenna may be implemented with a single antenna feed horn with multiple feed horns that may be arranged separately or in one or more integral feed horn blocks (304, 306). The antennas may be designed to achieve acceptable circular polarity performance over broad and multiple frequency bands through the use of oppositely sloped differential phase differential sections.

IPC 8 full level  
**H01Q 13/02** (2006.01); **H01Q 19/17** (2006.01)

CPC (source: EP)  
**H01Q 13/0258** (2013.01)

Citation (applicant)  
• US 57208004 P 20040518  
• US 6015788 A  
• US 6570542 B2 20030527 - JAN CHENG-GENG [TW], et al

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)  
**WO 2005114791 A1 20051201**; CA 2567417 A1 20051201; CA 2567417 C 20131119; CN 1906810 A 20070131; CN 1906810 B 20151125; EP 1749333 A1 20070207; EP 2131446 A2 20091209; EP 2131446 A3 20100324

DOCDB simple family (application)  
**US 2005017693 W 20050518**; CA 2567417 A 20050518; CN 200580001574 A 20050518; EP 05751776 A 20050518; EP 09170732 A 20050518