

Title (en)  
PERISCOPIC FEED SYSTEM FOR TWO-BAND ANTENNA

Publication  
**EP 0006391 B1 19831116 (FR)**

Application  
**EP 79400411 A 19790620**

Priority  
FR 7818408 A 19780620

Abstract (en)  
[origin: US4260993A] A dual-band antenna for the transmission and reception of radiant energy has a Cassegrain-type reflector assembly, rotatable about an azimuth axis and pivotable about an elevational axis, to which two outgoing beams are directed in a transmitting mode by a periscopic supply system including a set of four mirrors, two of them flat and two of them concave. The lower-band beam originates at a first feed comprising a horizontally radiating horn and two confronting concave mirrors, one of these mirrors training the beam onto a slanting dichroic mirror reflecting same upward into the periscopic supply system. The higher-band beam originates at a second feed also comprising a horizontal horn which radiates onto a concave mirror reflecting the beam upward through the dichroic mirror into the periscopic supply system along a path coinciding with that of the other beam.

IPC 1-7  
**H01Q 19/18**

IPC 8 full level  
**H01Q 5/00** (2006.01); **H01Q 5/45** (2015.01); **H01Q 15/00** (2006.01); **H01Q 19/19** (2006.01)

CPC (source: EP US)  
**H01Q 5/45** (2015.01 - EP US); **H01Q 15/0033** (2013.01 - EP US); **H01Q 19/191** (2013.01 - EP US)

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**EP 0006391 A1 19800109**; **EP 0006391 B1 19831116**; DE 2966404 D1 19831222; FR 2429505 A1 19800118; FR 2429505 B1 19811120; US 4260993 A 19810407

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