

Title (en)
HIGH-EFFICIENCY MULTIBEAM ANTENNA

Publication
EP 0164466 B1 19910605 (EN)

Application
EP 84304016 A 19840614

Priority
EP 84304016 A 19840614

Abstract (en)
[origin: EP0164466A1] A multibeam antenna system in which an antenna aperture element is deliberately selected to produce a divergent beam at a desired angular beamwidth. The antenna aperture may, for example, take the form of a hyperboloid reflector, a diverging lens, or a defocused paraboloid reflector. For the divergent secondary beams produced in these configurations, the angular beamwidth may be conveniently controlled by varying the magnification of the aperture or the degree of defocusing, without significantly affecting the gain or efficiency of the system. The degree of beam overlap may be independently controlled by scaling the size of the aperture, without significantly affecting the beamwidth, the gain or the efficiency.

IPC 1-7
H01Q 19/17; **H01Q 25/00**

IPC 8 full level
H01Q 19/17 (2006.01); **H01Q 25/00** (2006.01)

CPC (source: EP)
H01Q 19/17 (2013.01); **H01Q 25/007** (2013.01)

Cited by
EP0483686A1; EP0803930A3; GB2262387A; GB2262387B; EP0683541A1

Designated contracting state (EPC)
DE FR GB NL

DOCDB simple family (publication)
EP 0164466 A1 19851218; **EP 0164466 B1 19910605**; DE 3484684 D1 19910711

DOCDB simple family (application)
EP 84304016 A 19840614; DE 3484684 T 19840614