

Title (en)  
Antenna and antenna-feeder device

Title (de)  
Antenne und Speisung.

Title (fr)  
Antenne et dispositif d'alimentation.

Publication  
**EP 1798814 A3 20070704 (EN)**

Application  
**EP 06124095 A 20061114**

Priority  
• KR 20050114512 A 20051129  
• KR 20060106048 A 20061031

Abstract (en)  
[origin: EP1798814A2] An antenna comprises: a main reflector being a body of revolution of arbitrary curve which axis diverges from axis of the revolution; a sub-reflector being a body of the revolution of arbitrary curve along the axis of revolution, having a circle and a vertex pointing to the main reflector and being placed between the circle and the main reflector; a radiator being located along the axis of revolution and being placed between the main reflector and the sub-reflector; and wherein the main reflector and the sub-reflector are:  $z = m \cdot r \cdot D = \frac{m}{n} \cdot D$   $m = 0.4$   $n = 0.6$   $q = m \cdot n$   $m \cdot D = n + 1 \cdot \frac{m}{n} \cdot r \cdot n$  ,  $z = s \cdot r \cdot D = \frac{s}{n} \cdot D$   $s = 0.4$   $n = 0.6$   $q = s \cdot n$  ,  $m \cdot D = n + 1 \cdot \frac{m}{n} \cdot r \cdot n$  , - z, r are coordinates of the main reflector and the sub-reflector measured in millimeters, - Index m corresponds to the main reflector, index s to the sub-reflector, - D is the main reflector diameter measured in millimeters.

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

CPC (source: EP)  
**H01Q 19/134** (2013.01)

Citation (search report)  
• [X] US 6211834 B1 20010403 - DURHAM TIMOTHY E [US], et al  
• [X] FR 2540297 A1 19840803 - THOMSON CSF [FR]  
• [X] US 2004257290 A1 20041223 - GOTHARD GRIFFIN K [US], et al  
• [X] US 6020859 A 20000201 - KILDAL PER-SIMON [SE]

Cited by  
US7471991B2

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 LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)  
AL BA HR MK YU

DOCDB simple family (publication)  
**EP 1798814 A2 20070620; EP 1798814 A3 20070704; EP 1798814 B1 20110608; WO 2007064092 A1 20070607**

DOCDB simple family (application)  
**EP 06124095 A 20061114; KR 2006004654 W 20061108**