

Title (en)  
Omnidirectional antenna with steerable diagram

Title (de)  
Rundstrahler mit schwenkbarem Richtdiagramm

Title (fr)  
Antenne omnidirectionnelle configurable

Publication  
**EP 1551078 A1 20050706 (FR)**

Application  
**EP 04300001 A 20040102**

Priority  
EP 04300001 A 20040102

Abstract (en)  
The antenna has an omnidirectional antenna (11) transmitting and receiving electromagnetic radiation beam and having two conical surfaces around z axis. Discrete reflecting units (20) are associated to the antenna (11) and have variable reflectivity based on frequency of the beam. The units are disposed along concentric circles (31-34) centered on the axis, and have bars connected by diodes controlled by continuous voltage.

Abstract (fr)  
Antenne configurable (10), destinée à émettre ou capter au moins un faisceau de rayonnement électromagnétique dans une direction et une largeur angulaire ajustables, ladite antenne comprenant une antenne omnidirectionnelle (11) autour d'un axe z donné. Selon l'invention, ladite antenne configurable (10) comprend également, associés à ladite antenne omnidirectionnelle (11), des éléments réflecteurs discrets (20) de réflectivité commandable, disposés sur au moins un cercle centré autour de l'axe z donné. Application à la téléphonie mobile. <IMAGE>

IPC 1-7  
**H01Q 3/44**; **H01Q 9/28**

IPC 8 full level  
**H01Q 3/44** (2006.01); **H01Q 9/28** (2006.01)

CPC (source: EP US)  
**H01Q 3/446** (2013.01 - EP US); **H01Q 9/28** (2013.01 - EP US)

Citation (applicant)  
• DE 3237136 A1 19840412 - LICENTIA GMBH [DE]  
• AU 520107 B2 19820114 - HOFFMAN ELECTRONICS CORP  
• US 4700197 A 19871013 - MILNE ROBERT [CA]  
• US 3375519 A 19680326 - BURNHAM FRED E  
• GB 1021727 A 19660309 - GRANGER ASSOCIATES

Citation (search report)  
• [X] DE 3237136 A1 19840412 - LICENTIA GMBH [DE]  
• [X] AU 520107 B2 19820114 - HOFFMAN ELECTRONICS CORP  
• [X] US 4700197 A 19871013 - MILNE ROBERT [CA]  
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DOCDB simple family (application)  
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