

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]
• [X] US 3375519 A 19680326 - BURNHAM FRED E
• [X] GB 1021727 A 19660309 - GRANGER ASSOCIATES

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

DOCDB simple family (publication)
EP 1551078 A1 20050706; **EP 1551078 B1 20140402**; US 2005168391 A1 20050804; US 7123205 B2 20061017

DOCDB simple family (application)
EP 04300001 A 20040102; US 2645004 A 20041230