

Title (en)

Indoor antenna with changeable antenna characteristics for communication with high data rates

Title (de)

Innenraum-Antenne mit änderbarer Antennencharakteristik für die Kommunikation mit hohen Datenraten

Title (fr)

Antenne intérieure à caractéristique d'antenne variable pour la communication avec débit de données élevé

Publication

**EP 1077508 A3 20031112 (DE)**

Application

**EP 00116905 A 20000805**

Priority

DE 19938643 A 19990814

Abstract (en)

[origin: EP1077508A2] The antenna has drivable radiating antenna elements mounted on a base body. The base body (G) is in the form of a truncated cylinder (Z) with a polyhedron (K) mounted on it, whereby each surface of the polyhedron has an antenna element (E1,E2,E5). An independent claim is also included for a method of operating an antenna.

IPC 1-7

**H01Q 21/20**; **H01Q 21/29**; **H01Q 3/24**; **H01Q 1/38**; **H01Q 23/00**; **H01Q 1/00**; **H01Q 1/24**; **H04B 7/26**; **H04Q 11/04**

IPC 8 full level

**H01Q 1/00** (2006.01); **H01Q 1/24** (2006.01); **H01Q 1/38** (2006.01); **H01Q 3/24** (2006.01); **H01Q 21/20** (2006.01); **H01Q 21/29** (2006.01); **H01Q 23/00** (2006.01)

CPC (source: EP)

**H01Q 1/007** (2013.01); **H01Q 1/246** (2013.01); **H01Q 1/38** (2013.01); **H01Q 3/242** (2013.01); **H01Q 21/205** (2013.01); **H01Q 21/29** (2013.01); **H01Q 23/00** (2013.01)

Citation (search report)

- [Y] EP 0698972 A1 19960228 - LORAL QUALCOMM SATELLITE SERV [US]
- [Y] WO 9706578 A1 19970220 - FRACTAL ANTENNA SYSTEMS INC [US], et al
- [Y] US 5577046 A 19961119 - DIACHINA JOHN W [US], et al
- [Y] US 5570098 A 19961029 - SEARLE JEFFREY G [GB], et al
- [A] US 5905466 A 19990518 - JHA ASU RAM [US]
- [A] US 5012469 A 19910430 - SARDANA KARAMVIR [IN]
- [XDY] E. GSCHWENDTNER, D. LÖFFLER, W. WIESBECK: "Konforme, halbkugelförmige Array-Antenne für mobile Nutzer zukünftiger diensteintegrierter Satellitensysteme", ITG-FACHTAGUNG ANTENNEN, 21 April 1998 (1998-04-21) - 24 April 1998 (1998-04-24), MÜNCHEN, GERMANY, pages 117 - 122, XP001147439

Cited by

ITPI20120107A1; US8320942B2; US8149178B2; WO2007136290A1; WO2014064646A3; WO2021240214A1; US8193994B2; US8395558B2; US9761934B2; US10056682B2

Designated contracting state (EPC)

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DOCDB simple family (publication)

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