

Title (en)
A DUAL POLARIZED ANTENNA

Title (de)
DOPPELT POLARISIERTE ANTENNE

Title (fr)
ANTENNE À DOUBLE POLARISATION

Publication
EP 3280006 A1 20180207 (EN)

Application
EP 16182533 A 20160803

Priority
EP 16182533 A 20160803

Abstract (en)
A dual polarized antenna comprises the radiating arrangement and a feeding element containing two coaxial cables and two supporting conductors forming two perpendicular baluns supporting the radiating arrangement above a ground plate. The radiating arrangement comprises four crossed dipoles feeding by four symmetrical lines from the center of the radiating arrangement. Adjacent conductors of symmetrical lines connected together at the center of the radiating arrangement. Top ends of outer conductors of coaxial cables and top ends of supporting conductors are connected to adjacent conductors of symmetrical lines at the center of the radiating arrangement. Bottom ends of outer conductors of coaxial cables and bottom ends of supporting conductors are connected to a base plate. Length of supporting conductors is less than 0.15 wave length corresponding to the middle operating frequency. Inner conductors of coaxial cables are connected to supporting conductors by bridges placed above radiating arrangement.

IPC 8 full level
H01Q 9/26 (2006.01); **H01Q 21/26** (2006.01)

CPC (source: EP)
H01Q 9/0414 (2013.01); **H01Q 9/26** (2013.01); **H01Q 9/285** (2013.01); **H01Q 21/26** (2013.01)

Citation (applicant)

- US 3740754 A 19730619 - EPIS J
- US 4184163 A 19800115 - WOODWARD OAKLEY M [US]
- US 5481272 A 19960102 - YARSUNAS GEORGE D [US]
- US 5952983 A 19990914 - DEARNLEY RUSSELL W [US], et al
- US 6028563 A 20000222 - HIGGINS THOMAS P [US]
- US 6072439 A 20000606 - IPPOLITO JOSEPH R [US], et al
- US 6747606 B2 20040608 - HAREL JEAN-PIERRE [FR], et al
- US 2005253769 A1 20051117 - TIMOFEEV IGOR E [US], et al
- US 2013106668 A1 20130502 - KATIPALLY RAJA [US], et al
- CN 201435451 Y 20100331 - WUHAN HONGXIN TELECOMM TECHNO
- CN 102025023 A 20110420 - GUANGDONG TONGYU COMM CO LTD
- CN 201845867 U 20110525 - KENBOTONG COMM LTD
- CN 102074781 A 20110525 - JIANGSU JST TECHNOLOGIES STOCK CO LTD
- US 5940044 A 19990817 - SMITH RICHARD L [US]
- EP 0973231 A2 20000119 - ACE TECH [KR]
- US 6333720 B1 20011225 - GOETTL MAXIMILIAN [DE], et al
- US 6529172 B2 20030304 - ZIMMERMAN MARTIN L [US]
- US 2010309084 A1 20101209 - BU BINLONG [CN], et al
- US 6313809 B1 20011106 - GABRIEL ROLAND [DE], et al
- US 6940465 B2 20050906 - GOETTL MAXIMILIAN [DE], et al
- US 7688271 B2 20100330 - CAO HUY T [US], et al
- CN 202423543 U 20120905 - HUAWEI TECH CO LTD
- CN 202268481 U 20120606 - HUAWEI TECH CO LTD
- CN 101916910 A 20101215 - HUAWEI TECH CO LTD
- CN 102097677 A 20110615 - SHENZHEN HUAWEI AGINITRUST ELECTRIC CO LTD
- CN 102694237 A 20120926 - HUAWEI TECH CO LTD
- CN 102544711 A 20120704 - HUAWEI TECH CO LTD
- CN 201199545 Y 20090225 - MOBILE ANTENNA TECH SHENZHEN [CN]
- CN 102117967 A 20110706 - TONGYU COMM INC
- CN 102013560 A 20110413 - GUANGDONG TONGYU COMM EQUIPMENT CO LTD
- WO 2007114620 A1 20071011 - ACE ANTENNA CORP [KR], et al
- CN 101707292 A 20100512 - GUANGDONG TONGYU COMM EQUIPMEN
- CN 201430215 Y 20100324 - CHINA MOBILE COMM CORP, et al
- CN 202178382 U 20120328 - WUHAN HONGXIN TELECOMM TECHNO
- CN 202004160 U 20111005 - GUANGZHOU SUNRISE COMM EQUIPMENT CO LTD
- CN 102377007 A 20120314 - QINGDAO UTONE COMM EQUIPMENT CO LTD
- CN 201117803 Y 20080917 - MOBILE ANTENNA TECH SHENZHEN [CN]
- CN 101505007 A 20090812 - MOBILE ANTENNA TECH SHENZHEN [CN]
- US 6933906 B2 20050823 - STOLLE MANFRED [DE], et al
- US 7132995 B2 20061107 - GOTTL MAXIMILIAN [DE]
- US 2012235873 A1 20120920 - WU ZHONGLIN [CN], et al
- CN 102074779 A 20110525 - TONGYU COMM INC
- CN 102157783 A 20110817 - COMBA TELECOM SYS CHINA CO LTD
- CN 101707291 A 20100512 - GUANGDONG TONGYU COMM EQUIPMEN
- CN 101572346 A 20091104 - SHENGLU COMM CO LTD [CN]
- CN 201741796 U 20110209 - WUHAN HONGXIN TELECOMM TECHNO
- CN 101546863 A 20090930 - COMBA TELECOM SYS CHINA CO LTD
- CN 101673881 A 20100317 - COMBA TELECOM SYS CHINA CO LTD

- CN 202150554 U 20120222 - MOBI ANTENNA TECH SHENZHEN CO
- CN 102246352 A 20111116 - ALCATEL LUCENT
- CN 102484321 A 20120530 - KMW INC
- CN 202423541 U 20120905 - GUANGDONG SUPERFRAME COMM TECHNOLOGY CO LTD, et al
- CN 102544764 A 20120704 - COMBA TELECOM SYS CHINA CO LTD
- CN 101707287 A 20100512 - JINGJIANG GUOXIN COMM CO LTD, et al
- US 7679576 B2 20100316 - RIEDEL MATTHIAS [DE], et al
- US 2009179814 A1 20090716 - PARK JOO SUNG [KR], et al

Citation (search report)

[X] CN 204144419 U 20150204 - LI ZIMENG

Cited by

CN109193113A; RU2691121C1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 3280006 A1 20180207

DOCDB simple family (application)

EP 16182533 A 20160803