

Title (en)
DYNAMIC POLARIZATION AND COUPLING CONTROL FOR A STEERABLE CYLINDRICALLY FED HOLOGRAPHIC ANTENNA

Title (de)
DYNAMISCHE POLARISATION UND STECKKONTROLLE FÜR EINE LENKBARE UND ZYLINDRISCH GESPEISTE HOLOGRAFISCHE ANTENNE

Title (fr)
POLARISATION DYNAMIQUE ET COMMANDE DE COUPLAGE POUR UNE ANTENNE HOLOGRAPHIQUE À ALIMENTATION CYLINDRIQUE ORIENTABLE

Publication
EP 3108538 A4 20171011 (EN)

Application
EP 15751946 A 20150120

Priority
• US 201461941801 P 20140219
• US 201414550178 A 20141121
• US 2015012077 W 20150120

Abstract (en)
[origin: WO2015126550A1] An apparatus is disclosed herein for a cylindrically fed antenna and method for using the same. In one embodiment, the antenna comprises an antenna feed to input a cylindrical feed wave and a tunable slotted array coupled to the antenna feed.

IPC 8 full level
H01Q 21/00 (2006.01); **H01Q 3/24** (2006.01); **H01Q 3/28** (2006.01); **H01Q 9/04** (2006.01); **H01Q 21/06** (2006.01); **H01Q 21/20** (2006.01)

CPC (source: EP KR)
H01Q 3/28 (2013.01 - EP); **H01Q 9/0442** (2013.01 - EP); **H01Q 9/0457** (2013.01 - EP); **H01Q 21/0012** (2013.01 - EP KR); **H01Q 21/0031** (2013.01 - KR); **H01Q 21/065** (2013.01 - EP); **H01Q 21/20** (2013.01 - EP KR); **H01Q 21/24** (2013.01 - EP)

Citation (search report)
• [XAY] US 6674408 B1 20040106 - CHEN SHUGUANG [US]
• [XAY] US 6396440 B1 20020528 - CHEN SHUGUANG [JP]
• [YA] JP H02164108 A 19900625 - TOKYO INST TECH
• [A] US 2012194399 A1 20120802 - BILY ADAM [US], et al
• [Y] RADU MARIN: "Investigations on liquid crystal reconfigurable unit cells for mm-wave reflectarrays", 1 January 2008 (2008-01-01), pages i - 155, XP055401196, Retrieved from the Internet <URL:http://tuprints.ulb.tu-darmstadt.de/1089/1/diss_Radu_Marin_WebPubl.pdf> [retrieved on 20170825]
• [YDA] M. ANDO ET AL: "A radial line slot antenna for 12 GHz satellite TV reception", IRE TRANSACTIONS ON ANTENNAS AND PROPAGATION, vol. 33, no. 12, 1 December 1985 (1985-12-01), USA, pages 1347 - 1353, XP055400810, ISSN: 0096-1973, DOI: 10.1109/TAP.1985.1143526
• See references of WO 2015126550A1

Cited by
CN110350305A

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

DOCDB simple family (publication)
WO 2015126550 A1 20150827; BR 112016018882 A2 20201027; BR 112016018882 B1 20220222; CN 105960735 A 20160921; CN 105960735 B 20190917; CN 110492238 A 20191122; CN 110492238 B 20210209; EP 3108538 A1 20161228; EP 3108538 A4 20171011; EP 3108538 B1 20201223; EP 3800735 A1 20210407; EP 3800735 B1 20221116; EP 4191794 A1 20230607; ES 2856220 T3 20210927; ES 2935284 T3 20230303; JP 2017506471 A 20170302; JP 6339215 B2 20180606; KR 101864052 B1 20180601; KR 20160130975 A 20161115; TW 201541714 A 20151101; TW I634701 B 20180901

DOCDB simple family (application)
US 2015012077 W 20150120; BR 112016018882 A 20150120; CN 201580003431 A 20150120; CN 201910789413 A 20150120; EP 15751946 A 20150120; EP 20210250 A 20150120; EP 22207471 A 20150120; ES 15751946 T 20150120; ES 20210250 T 20150120; JP 2016553419 A 20150120; KR 20167016043 A 20150120; TW 104102522 A 20150126