

Title (en)
DUAL-POLARISED CROSSED DIPOLE AND ANTENNA ARRANGEMENT HAVING TWO SUCH DUAL-POLARISED CROSSED DIPOLES

Title (de)
DUAL-POLARISierter KREUZDIPOL UND ANTENNENANORDNUNG MIT ZWEI SOLCHEN DUAL-POLARISIERTEN KREUZDIPOLEN

Title (fr)
ENSEMBLE DIPÔLE CROISÉ À DOUBLE POLARISATION ET ANTENNE COMPRENANT DEUX DIPÔLES CROISÉS À DOUBLE POLARISATION

Publication
EP 3635814 A1 20200415 (DE)

Application
EP 18731041 A 20180608

Priority
• DE 102017112811 A 20170609
• DE 102017116920 A 20170726
• EP 2018065207 W 20180608

Abstract (en)
[origin: WO2018224666A1] A dual-polarised crossed dipole (1) comprises a first and a second dipole antenna element (2, 3). Each dipole antenna element (2, 3) comprises two dipole halves (2a, 2b, 3a, 3b), each having an earth connector (4, 8), a signal connector (6, 10), a dipole earth wing (5, 9) and a dipole signal wing (7, 11). The signal connector (6) of the first dipole antenna element (2) runs parallel to the earth connector (4) of the first dipole antenna element (2), and the signal connector (10) of the second dipole antenna element (3) runs parallel to the earth connector (8) of the second dipole antenna element (3). The dipole signal wing (7) and the dipole earth wing (5) of the first dipole antenna element (2) run in opposite directions. The same applies to the dipole signal wing (11) and the dipole earth wing (9) of the second dipole antenna element (3). Each dipole half (2a, 2b, 3a, 3b) is of single-part design in each case. The dipole signal wing (11) of the second dipole antenna element (3) passes through beneath the dipole signal wing (7) of the first dipole antenna element (2), or the dipole earth wing (9) of the second dipole antenna element (3) passes through beneath the dipole earth wing (5) of the first dipole antenna element (2).

IPC 8 full level
H01Q 1/24 (2006.01); **H01Q 9/20** (2006.01); **H01Q 9/28** (2006.01); **H01Q 21/24** (2006.01)

CPC (source: EP KR US)
H01Q 1/246 (2013.01 - KR); **H01Q 1/48** (2013.01 - US); **H01Q 9/20** (2013.01 - EP KR); **H01Q 9/28** (2013.01 - EP KR); **H01Q 21/24** (2013.01 - EP KR); **H01Q 21/26** (2013.01 - US); **H01Q 1/246** (2013.01 - EP); **H01Q 19/108** (2013.01 - EP)

Citation (search report)
See references of WO 2018224666A1

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)
DE 102017116920 A1 20181213; CN 110870134 A 20200306; CN 110870134 B 20210928; EP 3635814 A1 20200415; EP 3635814 B1 20240327; KR 20200013770 A 20200207; US 11217905 B2 20220104; US 2020106195 A1 20200402; WO 2018224666 A1 20181213

DOCDB simple family (application)
DE 102017116920 A 20170726; CN 201880046038 A 20180608; EP 18731041 A 20180608; EP 2018065207 W 20180608; KR 20207000625 A 20180608; US 201816620741 A 20180608