

Title (en)
Communication device and antenna thereof

Title (de)
Kommunikationsvorrichtung und Antenne dafür

Title (fr)
Dispositif de communication et antenne associée

Publication
EP 2958189 A1 20151223 (EN)

Application
EP 14173310 A 20140620

Priority
EP 14173310 A 20140620

Abstract (en)
A communication device (10) comprises a front housing (12), a back cover (18), a main body (20), a display panel (16), a signal feed point (30), a ground point (32), an antenna (26) and a conductor (28). The main body (20) is located between the front housing (12) and the back cover (18). The antenna (26) is installed on the main body (20) and corresponding to an adjacent edge of the display panel (16). The antenna (26) comprises a first metal part (36) and a second metal part (38). The first metal part (36) is coupled to the signal feed point (30), and the second metal part (38) is coupled to the ground point (32). A coupling gap (44) is defined between the conductor (28) and the antenna (26), and at least one part of the conductor (28) corresponds to the display panel (16).

IPC 8 full level
H01Q 1/24 (2006.01); **H01Q 1/52** (2006.01); **H01Q 5/00** (2015.01); **H01Q 9/26** (2006.01); **H01Q 19/22** (2006.01)

CPC (source: EP)
H01Q 1/243 (2013.01); **H01Q 1/52** (2013.01); **H01Q 5/378** (2015.01); **H01Q 9/265** (2013.01); **H01Q 19/22** (2013.01)

Citation (applicant)
US 8054231 B2 20111108 - AHN JUNG HO [KR], et al

Citation (search report)
• [X] US 2007030204 A1 20070208 - HENG CHEW C [SG], et al
• [A] US 2012223865 A1 20120906 - LI QINGXIANG [US], et al
• [A] US 2004257283 A1 20041223 - ASANO TAKESHI [JP], et al
• [A] US 2007290944 A1 20071220 - TAKAKI YASUNORI [JP], et al

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CN105633582A; CN113783986A; US11349194B2

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 2958189 A1 20151223; EP 2958189 B1 20230531

DOCDB simple family (application)
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