

Title (en)

Antenna assembly with electrically extended ground plane arrangement and associated method

Title (de)

Antennenvorrichtung mit elektrisch erweiterter Grundplattenanordnung und zugehöriges Verfahren

Title (fr)

Ensemble d'antenne avec agencement de plan de base étendu électriquement et procédé associé

Publication

EP 2381527 B1 20181031 (EN)

Application

EP 10160785 A 20100422

Priority

EP 10160785 A 20100422

Abstract (en)

[origin: EP2381527A1] Antenna assembly (200A-200H) having an electrically or virtually extended ground plane, adapted for use in a mobile communications device (400), for example. The antenna assembly (200A-200H) comprises at least one radiation element (204) having an operating frequency and a ground plane (202) coupled to the radiation element (204). At least one conductive member (211A, 211B) is electrically coupled to the ground plane (202) at one or more connection points (208A, 208B) such that the conductive member (211A, 211B) forms a loop (206) with the ground plane (202) having a minimum distance (h) therefrom that is less than a predetermined fraction of one wavelength of the operating frequency.

IPC 8 full level

H01Q 1/24 (2006.01); **H01Q 1/48** (2006.01)

CPC (source: EP)

H01Q 1/243 (2013.01); **H01Q 1/48** (2013.01)

Cited by

US9871545B2; US10013038B2; US8930164B2; US10461406B2; US9785174B2; US9871544B2; WO2013063432A1; WO2014074948A1; US10044095B2; US10276922B2; US10224974B2; US10924145B2; US10893488B2; US9608329B2; US9769769B2; US9813997B2

Designated contracting state (EPC)

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 SE SI SK SM TR

DOCDB simple family (publication)

EP 2381527 A1 20111026; EP 2381527 B1 20181031

DOCDB simple family (application)

EP 10160785 A 20100422