

Title (en)
PATCH ANTENNA HAVING TWO DIFFERENT RADIATION MODES WITH TWO SEPARATE WORKING FREQUENCIES, DEVICE USING SUCH AN ANTENNA

Title (de)
PATCH-ANTENNE MIT ZWEI VERSCHIEDENEN STRAHLUNGSMODI MIT ZWEI GETRENNTEN ARBEITSFREQUENZEN, VORRICHTUNG MIT EINER SOLCHEN ANTENNE

Title (fr)
ANTENNE PLAQUÉE PRÉSENTANT DEUX MODES DE RAYONNEMENT DIFFÉRENTS À DEUX FRÉQUENCES DE TRAVAIL DISTINCTES, DISPOSITIF UTILISANT UNE TELLE ANTENNE

Publication
EP 3669422 C0 20240424 (FR)

Application
EP 18753199 A 20180817

Priority
• EP 2018072288 W 20180817
• FR 1757731 A 20170818

Abstract (en)
[origin: WO2019034760A1] The invention relates to an antenna (1) comprising a ground plane (11), a metal plate (10) arranged facing said ground plane (11), and a supply wire (12) for connecting the plate (10) to a generator (16) or a receiver, such that said antenna (1) has a first resonance frequency in a patch antenna mode. The antenna (1) further comprises a ground wire (13) connecting the plate (10) to the ground plane (11), and a capacitive element (15a, 15b, 15c) arranged in series with the ground wire (13) between the supply wire (12) and the ground plane (11), such that the antenna (1) also has a second resonance frequency in a wire-plate antenna mode.

IPC 8 full level
H01Q 9/04 (2006.01); **H01Q 1/32** (2006.01); **H01Q 5/314** (2015.01); **H01Q 5/328** (2015.01); **H01Q 5/335** (2015.01)

CPC (source: EP US)
H01Q 5/314 (2015.01 - EP); **H01Q 5/328** (2015.01 - EP US); **H01Q 5/335** (2013.01 - EP US); **H01Q 9/0407** (2013.01 - US); **H01Q 9/0421** (2013.01 - EP); **H01Q 1/3275** (2013.01 - EP)

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

Participating member state (EPC – UP)
AT BE BG DE DK EE FI FR IT LT LU LV MT NL PT SE SI

DOCDB simple family (publication)
WO 2019034760 A1 20190221; EP 3669422 A1 20200624; EP 3669422 B1 20240424; EP 3669422 C0 20240424; FR 3070224 A1 20190222; FR 3070224 B1 20201016; US 11196162 B2 20211207; US 2020227829 A1 20200716

DOCDB simple family (application)
EP 2018072288 W 20180817; EP 18753199 A 20180817; FR 1757731 A 20170818; US 201816635831 A 20180817