

Title (en)
CIRCUIT BOARD ANTENNA

Title (de)
LEITERPLATTEN-ANTENNE

Title (fr)
ANTENNE À CARTE DE CIRCUIT IMPRIMÉ

Publication
EP 3827478 B1 20230927 (DE)

Application
EP 19734345 A 20190625

Priority
• DE 102018212319 A 20180724
• EP 2019066813 W 20190625

Abstract (en)
[origin: WO2020020556A1] The invention relates to a circuit board antenna (100). The circuit board antenna (100) comprises an electrically conductive first antenna structure (113) on a first outer layer (110) of an outer layer (110) of a circuit board (101). The circuit board antenna (100) also comprises an electrically conductive first covering reference region (111) on the first outer layer (110). The circuit board antenna (100) further comprises an electrically conductive feed line (115) to the first antenna structure (113). The first covering reference region (111) completely surrounds the first antenna structure (113), apart from an isolating recess (117) for the feed line (115), such that an electrically insulating isolating first clear space (112) is formed between the first antenna structure (113) and the first covering reference region (111).

IPC 8 full level
H01Q 13/10 (2006.01); **H01Q 1/22** (2006.01); **H01Q 1/38** (2006.01); **H01Q 5/357** (2015.01); **H01Q 9/42** (2006.01)

CPC (source: EP)
H01Q 1/22 (2013.01); **H01Q 1/38** (2013.01); **H01Q 5/357** (2015.01); **H01Q 9/42** (2013.01); **H01Q 13/106** (2013.01)

Citation (examination)
CN 105591196 A 20160518 - ZHEJIANG LIERDA INTERNET OF THINGS TECH CO LTD

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 2020020556 A1 20200130; DE 102018212319 A1 20200130; EP 3827478 A1 20210602; EP 3827478 B1 20230927

DOCDB simple family (application)
EP 2019066813 W 20190625; DE 102018212319 A 20180724; EP 19734345 A 20190625