

Title (en)
MULTIBAND ANTENNA, SYSTEM AND TRAIN

Title (de)
MEHRBANDANTENNE, -SYSTEM UND -ZUG

Title (fr)
ANTENNE MULTIBANDE, SYSTÈME ET TRAIN

Publication
EP 3742550 A1 20201125 (EN)

Application
EP 20171786 A 20200428

Priority
• GB 201907148 A 20190521
• GB 201917355 A 20191128

Abstract (en)
A multiband antenna for a train is provided, comprising a base plate and a housing. The housing comprises a base portion and a cover, removably mounted on the base plate, the cover having a footprint having a first arm and a second arm joined at a central apex. An application-specific antenna mounted on the base plate at the apex of the cover; and a cellular network antenna mounted on the base plate in each of the first and second arms of the cover. The cover comprises a continuous supporting wall and an upper portion, the continuous supporting wall extending between the base portion and the upper portion and having a maximum height h, and the upper portion extending from the apex along the first and the second arms at the maximum height h of the supporting wall and inclines to form a valley extending between the first and the second arms from proximate the apex to the base portion distal from the apex.

IPC 8 full level
H01Q 1/32 (2006.01); **H01Q 1/42** (2006.01); **H01Q 21/28** (2006.01)

CPC (source: EP GB)
H01Q 1/32 (2013.01 - GB); **H01Q 1/3275** (2013.01 - EP); **H01Q 1/42** (2013.01 - EP GB); **H01Q 5/50** (2015.01 - GB); **H01Q 21/28** (2013.01 - EP)

Citation (search report)
• [XAI] EP 3147999 A1 20170329 - TAOGLAS GROUP HOLDINGS [IE]
• [XI] CN 206250382 U 20170613 - JC ANTENNA CO LTD
• [A] CN 206962006 U 20180202 - ZHENGZHOU BEIDOU COMMUNICATION TECH CO LTD
• [A] GB 2556974 A 20180613 - TAOGLAS GROUP HOLDINGS LTD [IE]

Cited by
DE202022104864U1; EP4331941A1

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 3742550 A1 20201125; EP 3742550 B1 20220629; GB 201917355 D0 20200115; GB 2584170 A 20201125; GB 2584170 B 20220713

DOCDB simple family (application)
EP 20171786 A 20200428; GB 201917355 A 20191128