

Title (en)
ON-BOARD ANTENNA FOR RAIL VEHICLE

Title (de)
BORDVORRICHTUNG FÜR EIN SCHIENENFAHRZEUG

Title (fr)
ANTENNE EMBARQUÉE POUR VÉHICULE FERROVIAIRE

Publication
EP 3461715 A1 20190403 (EN)

Application
EP 17194052 A 20170929

Priority
EP 17194052 A 20170929

Abstract (en)
An on-board antenna for a rail vehicle is provided, comprising several antenna elements that are arranged and configured to form at least two beams, wherein the at least two beams are directed at different angles towards a track. In addition, a rail vehicle is provided utilizing such on-board antenna for obtaining signals from a balise. Also, a method is provided to monitor the rail vehicle via such on-board antenna.

IPC 8 full level
B61L 3/12 (2006.01); **B61L 25/02** (2006.01)

CPC (source: EP)
B61L 3/121 (2013.01); **B61L 25/025** (2013.01); **B61L 2003/123** (2013.01)

Citation (applicant)
RIAS MUHAMED: "Direction of Arrival Estimation using Antenna Arrays", THESIS SUBMITTED TO THE FACULTY OF THE VIRGINIA POLYTECHNIC INSTITUTE AND STATE UNIVERSITY, January 1996 (1996-01-01), Retrieved from the Internet <URL:https://theses.lib.vt.edu/theses/available/etd-10022008-063154/unrestricted/LD5655.V855.1996.M843.pdf>

Citation (search report)
• [XY] US 2016001803 A1 20160107 - KIM JUNGTAI [KR], et al
• [Y] FR 1349305 A 19640117 - CSF
• [Y] EP 2905196 A1 20150812 - SIEMENS AG [DE]

Cited by
CN114162183A; CN110758484A; WO2020239438A1; WO2021082256A1

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 3461715 A1 20190403; EP 3461715 B1 20210721; HU E056125 T2 20220128

DOCDB simple family (application)
EP 17194052 A 20170929; HU E17194052 A 20170929