

Title (en)
ONBOARD COMMUNICATION APPARATUS AND RAILROAD VEHICLE

Title (de)
BORDKOMMUNIKATIONSGERÄT UND SCHIENENFAHRZEUG

Title (fr)
APPAREIL DE COMMUNICATION EMBARQUÉ ET VÉHICULE FERROVIAIRE

Publication
EP 3936409 A4 20221207 (EN)

Application
EP 19917671 A 20191126

Priority
• JP 2019038592 A 20190304
• JP 2019046135 W 20191126

Abstract (en)
[origin: EP3936409A1] The present invention provides a technique for detecting a sign of a malfunction in an onboard communication apparatus. Accordingly, one representative onboard communication apparatus according to the present invention is an onboard communication apparatus which is installed in a vehicle and which transmits power waves to, and receives information waves from, a ground element installed along a railroad track, the apparatus comprising: a power wave transmitting unit that generates power waves; an onboard element that transmits the power waves generated by the power wave transmitting unit to the ground element and receives information waves transmitted by the ground element; a feedback unit that detects output of the power waves and stabilizes the output to a prescribed output; and a deterioration diagnosis unit that outputs, as information indicating a sign of a malfunction ("deterioration information" hereinafter), information based on a feedback command value of the feedback unit.

IPC 8 full level
B60L 3/00 (2019.01); **B61L 3/12** (2006.01); **B61L 15/00** (2006.01); **B61L 23/14** (2006.01); **H04B 17/19** (2015.01)

CPC (source: EP)
B61L 3/121 (2013.01); **B61L 3/125** (2013.01); **B61L 15/0081** (2013.01)

Citation (search report)
• [X1] JP 2014064226 A 20140410 - HITACHI LTD
• [X1] JP 5904918 B2 20160420
• [A] JP 2017195486 A 20171026 - HITACHI LTD
• [A] JP H04305794 A 19921028 - TOSHIBA CORP
• See references of WO 2020179151A1

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)
EP 3936409 A1 20220112; **EP 3936409 A4 20221207**; JP 7078794 B2 20220531; JP WO2020179151 A1 20211125;
WO 2020179151 A1 20200910

DOCDB simple family (application)
EP 19917671 A 20191126; JP 2019046135 W 20191126; JP 2021503401 A 20191126