

Title (en)

A RAILWAY MONITORING SENSOR UNIT

Title (de)

EISENBAHNÜBERWACHUNGSSENSOREINHEIT

Title (fr)

UNITÉ DE CAPTEUR DE SURVEILLANCE DE CHEMIN DE FER

Publication

EP 4056449 A1 20220914 (EN)

Application

EP 22161549 A 20220311

Priority

NL 2027749 A 20210312

Abstract (en)

The application describes a railway monitoring sensor unit (300) comprising an MEMS acceleration sensor (302) generating acceleration signals and, a wireless communication module (310) configured to transmit data to a server for further processing. The railway monitoring sensor unit further comprises a signal processing unit (306) configured for processing the acceleration signals and generating vertical track displacement data for a train passage. The wireless communication module is configured to transmit the vertical track displacement data to the server.

IPC 8 full level

B61L 1/06 (2006.01); **B61L 23/04** (2006.01)

CPC (source: EP)

B61L 1/06 (2013.01); **B61L 23/048** (2013.01)

Citation (applicant)

- GB 2420627 A 20060531 - AEA TECHNOLOGY PLC [GB]
- JP 4338273 B2 20091007
- CN 110126877 A 20190816 - UNIV SHANDONG JIAOTONG
- WO 2017105451 A1 20170622 - SIEMENS RAIL AUTOMATION PTY LTD [AU], et al
- US 2018154914 A1 20180607 - CARMONA MIKAEL [FR], et al

Citation (search report)

- [IA] US 2018154914 A1 20180607 - CARMONA MIKAEL [FR], et al
- [A] FAULKNER KAREN ET AL: "Tracking bridge tilt behaviour using sensor fusion techniques", JOURNAL OF CIVIL STRUCTURAL HEALTH MONITORING, SPRINGER BERLIN HEIDELBERG, BERLIN/HEIDELBERG, vol. 10, no. 4, 29 April 2020 (2020-04-29), pages 543 - 555, XP037183673, ISSN: 2190-5452, [retrieved on 20200429], DOI: 10.1007/S13349-020-00400-9

Cited by

EP4339067A1; WO2024056873A1

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)

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