Title (en)

SURFACE CONDITION MONITORING OF RAILWAY TRACKS

Title (de)

ÜBERWACHUNG DES OBERFLÄCHENZUSTANDES VON EISENBAHNGLEISEN

Title (fr)

SURVEILLANCE D'ÉTAT DE SURFACE DE VOIES FERRÉES

Publication

EP 4126632 A1 20230208 (EN)

Application

EP 21723338 A 20210406

Priority

- GB 202004903 A 20200402
- GB 2021050850 W 20210406

Abstract (en)

[origin: GB2593767A] A device 1 for monitoring the condition of the surface of railway track rails 2, comprises a spectrometer configured to monitor at least one frequency corresponding that indicates the presence of a contaminant on a railway track rail and to provides an output indicative of the presence or absence of the contaminant on a railway track rail 2. The spectrometer may monitor a plurality of frequencies, and/or be a Ramen spectrometer. The device may be handheld, or mounted alongside a track, potentially for monitoring a plurality of rails. A surface conditioning device may act in response to data received from the monitoring device. The surface conditioning may be by a plasma delivered to the rail.

IPC 8 full level

B61L 23/04 (2006.01); **B61L 27/00** (2006.01)

CPC (source: EP GB US)

B61K 9/08 (2013.01 - GB US); **B61L 23/042** (2013.01 - EP GB); **B61L 27/53** (2022.01 - EP); **E01H 8/10** (2013.01 - GB US)

Citation (search report)

See references of WO 2021198713A1

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

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

GB 202004903 D0 20200520; **GB 2593767 A 20211006**; AU 2021246970 A1 20221110; CA 3174257 A1 20211007; CN 115916621 A 20230404; EP 4126632 A1 20230208; GB 202104894 D0 20210519; GB 2593825 A 20211006; GB 2593825 B 20240306; JP 2023522157 A 20230529; US 2023192160 A1 20230622; WO 2021198713 A1 20211007

DOCDB simple family (application)

GB 202004903 A 20200402; AU 2021246970 A 20210406; CA 3174257 A 20210406; CN 202180027451 A 20210406; EP 21723338 A 20210406; GB 202104894 A 20210406; GB 2021050850 W 20210406; JP 2022560299 A 20210406; US 202117915220 A 20210406