

Title (en)
OPTICAL RAILWAY DETECTION

Title (de)
OPTISCHE SCHIENENWEGERKENNUNG

Title (fr)
DÉTECTION OPTIQUE DE VOIE FERRÉE

Publication
EP 4222039 A1 20230809 (DE)

Application
EP 21769400 A 20210826

Priority
• DE 102020215754 A 20201211
• EP 2021073593 W 20210826

Abstract (en)
[origin: WO2022122196A1] The invention relates to a method (100) for creating a training data set for optical railway detection with integrated obstacle detection, said method comprising the following steps: - providing (101) first images (401) of railways (403) for rail vehicles (400), each first image (401) comprising a representation of a railway (403); - providing (103) second images (407) of objects (409), each second image (407) comprising a representation of at least one object (409); - combining (105) the first and second images (401, 407); and - generating (107) third images (411) consisting of the combined first and second images (401, 407), each third image (411) comprising a representation of a railway (403) with at least one object (409), and a number of the third images (411) forming the training data set for the optical railway detection with integrated obstacle detection.

IPC 8 full level
B61L 23/04 (2006.01); **B61L 15/00** (2006.01)

CPC (source: EP US)
B61L 15/0072 (2013.01 - US); **B61L 23/041** (2013.01 - EP US); **G06T 7/50** (2016.12 - US); **G06V 10/16** (2022.01 - US);
G06V 10/26 (2022.01 - US); **G06V 10/774** (2022.01 - US); **G06V 10/82** (2022.01 - US); **G06V 20/58** (2022.01 - US); **B61L 15/0072** (2013.01 - EP);
G06T 2207/20081 (2013.01 - US); **G06T 2207/20084** (2013.01 - US); **G06T 2207/30261** (2013.01 - US)

Citation (search report)
See references of WO 2022122196A1

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)
WO 2022122196 A1 20220616; DE 102020215754 A1 20220615; EP 4222039 A1 20230809; US 2024034372 A1 20240201

DOCDB simple family (application)
EP 2021073593 W 20210826; DE 102020215754 A 20201211; EP 21769400 A 20210826; US 202118256957 A 20210826