

Title (en)  
CALIBRATION METHOD AND CALIBRATION SYSTEM FOR A RAILWAY VEHICLE CAMERA, AND RAILWAY VEHICLE HAVING RAILWAY VEHICLE CAMERA

Title (de)  
KALIBRIERUNGSVERFAHREN UND KALIBRIERUNGSSYSTEM FÜR EINE BAHNFAHRZEUGKAMERA UND BAHNFAHRZEUG MIT BAHNFAHRZEUGKAMERA

Title (fr)  
PROCÉDÉ ET SYSTÈME D'ÉTALONNAGE D'UNE CAMÉRA DE VÉHICULE FERROVIAIRE ET VÉHICULE FERROVIAIRE ÉQUIPÉ D'UNE CAMÉRA DE VÉHICULE FERROVIAIRE

Publication  
**EP 3802266 A1 20210414 (DE)**

Application  
**EP 19727831 A 20190508**

Priority  
• DE 102018208512 A 20180529  
• EP 2019061793 W 20190508

Abstract (en)  
[origin: WO2019228766A1] In order to calibrate a railway vehicle camera (BFZK) easily and cost-effectively, it is proposed that - a plurality of reference images (RBI) of a line (BST), in particular a railway line (SST), in relation to a route area (FSB) ahead of a rail vehicle (BFZ, SFZ) which represent the route area (FSB) are captured and stored by the railway vehicle (BFZ), in particular rolling stock (SFZ), - metadata (MD) regarding the line (BST, SST) captured in the images are present, - a calibration image (KBIMD) of a portion of the line (BST, SST) which is determinable on account of the metadata (MD) and has a linear course of a lane is captured by the railway vehicle camera (BFZK), - information specifying the position and orientation, what is known as the pose, of the railway vehicle camera (BFZK) in relation to the lane is determined in the calibration image (KBIMD) on the basis of the lane course, - a correction value (KW) is calculated on the basis of a metadata-based reference image (RBIMD) of the reference images (RBI) corresponding to the calibration image (KBIMD) as difference value in relation to a reference position in the metadata-based reference image (RBIMD) on the basis of the pose information, - the calculated correction value (KW) is used to generate camera calibration information (KKI) or to interpret the image information in the calibration image (KBIMD).

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

CPC (source: EP RU)  
**B61L 15/0072** (2013.01 - EP RU); **B61L 23/041** (2013.01 - EP RU)

Citation (search report)  
See references of WO 2019228766A1

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