

Title (en)
AUTOMATED ON-VEHICLE CONTROL SYSTEM FOR A RAIL VEHICLE

Title (de)
AUTOMATISIERTES FAHRZEUGSEITIGES STEUERUNGSSYSTEM FÜR EIN SCHIENENFAHRZEUG

Title (fr)
SYSTÈME DE COMMANDE AUTOMATISÉ CÔTÉ VÉHICULE POUR UN VÉHICULE FERROVIAIRE

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Abstract (en)
[origin: WO2020053245A2] The invention relates to an automated on-vehicle rail vehicle control system (20, 30). The present automated on-vehicle rail vehicle control system (20, 30) comprises an on-vehicle set point value detection unit (22), an automated train operating system (11) and a driving and braking unit (3), and additional sensors for detecting environment-related information. The on-vehicle set point value detection unit (22) is configured to determine, on the basis of on-vehicle positioning and map data (KD) as well as sensor data from the additional sensors, operative set point values for the control mode and the current driving mission of the rail vehicle. The automated train operating system (1) is configured to generate driving and braking commands (SW) on the basis of the set point values (SWV) of the on-vehicle set point value detection unit (22). The driving and braking unit (3) is configured to carry out traction and braking operations on the basis of the driving and braking commands (SW) that were determined. A rail vehicle is also described. The invention also relates to a method for the automated control of a rail vehicle.

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