

Title (en)

Method for operating a train on a railway system, in particular comprising a national ATP infill in ETCS

Title (de)

Verfahren zum Betrieb eines Zugs auf einem Eisenbahnsystem, das insbesondere eine nationale ATP-Einbringung in einem ETCS umfasst

Title (fr)

Procédé de fonctionnement d'un train sur un système ferroviaire, en particulier comportant un remplissage ATP national dans ETCS

Publication

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Application

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Priority

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Abstract (en)

[origin: EP2168840A1] The invention relates to a method for operating a train (11) on a railway system (1), wherein the railway system (1) is equipped both with a train protection system with non-continuous information transfer, such as level 1 ETCS, and a target speed information system with a continuous information transfer, such as a national ATP system. The target speed information system is used to update the track profile information of the train protection system between information transfer points, such as balise groups (4a, 6a, 7a), by replacing checkpoint speeds of the track profile information with target speeds. However, the track profile information is not altered in other ways by the replacement; in particular there is no re-calculation of a track profile information by the on-board-unit (11a) of the train (11) for safety reasons. In order to be able to use the updated checkpoint speeds, the train (11) receives track profile information also for track section parts (13) adjacent and beyond the last forthcoming checkpoint with a corresponding red railway signal, and the setting of track elements, such as switches (2), in said track section part are assumed to allow the highest possible speed when transmitted to the train (11). A safe train speed is guaranteed by the proper choice of the target speeds. The target speed is provided by the existing target speed information system, without an intervention into it. The invention improves the train traffic flow on the railway system.

IPC 8 full level

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Cited by

CN102317135A; CN105523062A; CN113139027A; CN110588730A; CN102238087A; LU100845B1; CN105172841A; CN102069825A; CN107672627A; CN107697105A; WO2011137787A1; WO2012149761A1; WO2019243341A1

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