

Title (en)

METHOD AND APPARATUS FOR PROVIDING DYNAMIC TRAIN CONTROL

Title (de)

VERFAHREN UND VORRICHTUNG ZUR BEREITSTELLUNG EINER DYNAMISCHEN ZUGSTEUERUNG

Title (fr)

PROCÉDÉ ET APPAREIL POUR FOURNIR UNE COMMANDE DE TRAIN DYNAMIQUE

Publication

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Application

EP 19191212 A 20190812

Priority

KR 20190092807 A 20190731

Abstract (en)

A dynamic train control method and apparatus based on autonomous collaboration are disclosed. The present disclosure in some embodiments provides an autonomous collaboration-based dynamic train control method and apparatus for enabling trains to autonomously travel based on exceptional circumstances determined by train-to-train communication and terrestrial communication by calculating a severity and a cascaded delay time of the exceptional circumstances and offering the optimal alternative.

IPC 8 full level

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CPC (source: EP KR)

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Citation (search report)

- [X] EP 2873586 A1 20150520 - HITACHI LTD [JP]
- [XY] GB 2508508 A 20140604 - HITACHI LTD [JP]
- [Y] US 2006212188 A1 20060921 - KICKBUSCH JOEL [US], et al
- [A] JP 2010228688 A 20101014 - HITACHI LTD

Citation (examination)

US 2013325224 A1 20131205 - YAMAMOTO JUNKO [JP], et al

Cited by

CN113401170A; US2024179024A1; CN113726573A; US12111650B2; CN113353122A

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