

Title (en)
AD-HOC NETWORK-BASED TRAIN DYNAMIC GROUPING AND UNGROUPING METHOD AND SYSTEM

Title (de)
AD-HOC-NETZWERK-BASIERTES VERFAHREN UND SYSTEM ZUR DYNAMISCHEN GRUPPIERUNG UND ENTGRUPPIERUNG VON ZÜGEN

Title (fr)
PROCÉDÉ ET SYSTÈME DE GROUPEMENT ET DE DÉGROUPEMENT DYNAMIQUES DE TRAINS BASÉS SUR UN RÉSEAU AD HOC

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Application
EP 21879015 A 20210708

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Abstract (en)
[origin: EP4101719A1] Disclosed is an ad-hoc network-based train dynamic marshalling and unmarshalling method. The method includes train dynamic marshalling and train dynamic unmarshalling. The train dynamic marshalling includes: after a rear train set enters a U code section, marshalling two train sets if marshalling conditions are met. The dynamic unmarshalling includes: receiving, by two train sets in a group, an unmarshalling command during operation, and unmarshalling the two train sets if unmarshalling conditions are met. The method further includes: when the rear train set has a speed of 0 during operation of the two train sets in the group, unmarshalling the two train sets if the unmarshalling command is received. The method designed in the present invention implements flexible connection by means of an ad-hoc network, such that group trains can be flexibly marshalled, and a plurality of tracks are fully utilized. During departure, a mode of marshalling first and then departing is used to improve the departure efficiency. When the train transport volume is increased, a 5,000 t standard train may be used, thereby avoiding high costs caused by adding effective tracks. Further disclosed is a dynamic marshalling and unmarshalling system.

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Citation (search report)

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- [A] EP 3473523 A1 20190424 - TRAFFIC CONTROL TECH CO LTD [CN]
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- [A] EP 3102474 B1 20180214 - SIEMENS AG [DE]
- See also references of WO 2022077967A1

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