

Title (en)  
Signaling system

Title (de)  
Signalisierungssystem

Title (fr)  
Système de signalisation

Publication  
**EP 2860082 B1 20160706 (EN)**

Application  
**EP 14186149 A 20140924**

Priority  
JP 2013206044 A 20131001

Abstract (en)  
[origin: EP2860082A1] In a signaling system to ensure the safety of train running, by circulating, using wireless, a protection telegram message containing the occupation right information about a running track, among on-board devices of trains and switch devices in order, there is a probability that the occupation right information shared among the on-board devices and the switch devices cannot be updated and the function as the signaling system halts, when the protection telegram message is lost. When the protection telegram message is not received in a prescribed time, a recovery telegram message is circulated, and thereby, the information in the protection telegram message before the loss is restored. Then, based on the information, a protection telegram message is newly issued to be circulated.

IPC 8 full level  
**B61L 23/24** (2006.01); **B61L 27/04** (2006.01); **B61L 11/08** (2006.01)

CPC (source: EP)  
**B61L 23/24** (2013.01); **B61L 27/04** (2013.01); **B61L 11/08** (2013.01)

Cited by  
JP2017165342A; DE112015003770B4; US11772692B2; WO2020112165A1

Designated contracting state (EPC)  
DE GB

DOCDB simple family (publication)  
**EP 2860082 A1 20150415**; **EP 2860082 B1 20160706**; CN 104512440 A 20150415; CN 104512440 B 20160817; IN 2732DE2014 A 20150626; JP 2015067252 A 20150413; JP 6151148 B2 20170621

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**EP 14186149 A 20140924**; CN 201410497955 A 20140925; IN 2732DE2014 A 20140923; JP 2013206044 A 20131001