

Title (en)
System for safe operation of railbound trains

Title (de)
System zum sicheren Betrieb von auf Fahrstrecken verkehrenden gleisgebundenen Zügen

Title (fr)
Système pour des circulations sécurisées de trains sur des voies ferrées

Publication
EP 1630059 A3 20080709 (DE)

Application
EP 05107351 A 20050810

Priority
DE 102004042979 A 20040831

Abstract (en)
[origin: EP1630059A2] The system is for the safe operation of track-bound trains running over travel distances. For all trains, for bi-unique allocation of railway routes and trains, a common route administration is provided for the influencing of trains with different safety characteristics. The administration does not reserve track sections belonging to another route, forms a route in dependence upon the safety characteristics of the reserved track sections, establishes the route and makes it safe, and opens the formed route.

IPC 8 full level
B61L 21/04 (2006.01); **B61L 19/06** (2006.01)

CPC (source: EP)
B61L 19/06 (2013.01); **B61L 21/04** (2013.01); **B61L 21/10** (2013.01); **B61L 23/30** (2013.01); **B61L 2003/226** (2013.01); **B61L 2011/086** (2013.01); **B61L 2027/202** (2022.01)

Citation (search report)
• [A] DE 2247275 B1 19740404 - SIEMENS AG
• [L] EP 1752355 A2 20070214 - WESTINGHOUSE BRAKE & SIGNAL [GB]
• [A] MILIUS B: "STELLWERKE VON MORGEN WELCHE ROLLE KANN DAS STELLWERK IN EINEM ETCS-LEVEL-3-SYSTEM NOCH SPIELEN?// INTERLOCKINGS FOR TOMORROW HOW TO INTEGRATE INTERLOCKINGS IN ETCS LEVEL 3 SYSTEMS", ZEVRAIL - GLASERS ANNALEN, GEORG SIEMENS VERLAG, BERLIN, DE, vol. 126, no. 2/03, 1 January 2002 (2002-01-01), pages 106 - 114, XP001145097, ISSN: 1618-8330

Cited by
CN108778890A; CN103282259A; CN108698624A; EP4063234A1; EP2835303A1; FR3009533A1; EP3078564A1; EP2371662A1; FR2958248A1; CN102238233A; WO2017153132A1; WO2012095339A1; WO2008096048A1; US8321079B2; US8820685B2; WO2017153131A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA HR MK YU

DOCDB simple family (publication)
EP 1630059 A2 20060301; EP 1630059 A3 20080709; EP 1630059 B1 20090930; AT E444220 T1 20091015; DE 102004042979 A1 20060316; DE 502005008225 D1 20091112; ES 2331191 T3 20091223; PT 1630059 E 20091023

DOCDB simple family (application)
EP 05107351 A 20050810; AT 05107351 T 20050810; DE 102004042979 A 20040831; DE 502005008225 T 20050810; ES 05107351 T 20050810; PT 05107351 T 20050810