Title (en)
METHOD AND SYSTEM FOR PERFORMING A PLANNING PROCESS OF A RAILWAY SERVICE

Title (de)
VERFAHREN UND SYSTEM ZUR DURCHFÜHRUNG EINES PLANUNGSPROZESSES EINES ZUGVERKEHRSDIENSTES

Title (fr)
PROCÉDÉ ET SYSTÈME POUR EFFECTUER UN PROCESSUS DE PLANIFICATION D'UN SERVICE DE CHEMIN DE FER

Publication
EP 3530547 A1 20190828 (EN)

Application
EP 18305179 A 20180221

Priority
EP 18305179 A 20180221

Abstract (en)
Method for performing a planning process of a railway service comprising the steps of:- acquiring (200), using sensors (300), train data relative to measured movement of trains along a railway track (302), and reference data relative to a reference timetable of trains trips;- generating, with an elaboration unit (308), a reference three dimensional graph (20) including a three dimensional cylinder (21) and associating a reference Cartesian system (XYZ) to the cylinder (21);- calculating, with the elaboration unit (308), coordinates of history points and reference points for each train in the reference Cartesian system (XYZ) as a function respectively of said train and reference data, the coordinates of the history and reference points in a planar direction (XY) of the reference Cartesian system (XYZ) being function of a train position corresponding respectively to said train and reference data, and the coordinates of the history and reference points in a vertical direction perpendicular to the planar direction (XY) being function of a time associated with said train position respectively in the train and reference data, the coordinates of each history and reference points corresponding to a point belonging to the surface of the cylinder (21);- displaying on a display unit (310) the three dimensional graph and the history and reference points;- planning, with a control unit (304), the railway service as a function of the data displayed on the display unit (310).

IPC 8 full level
B61L 27/00 (2006.01)

CPC (source: CN EP US)
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Citation (search report)
- [I] DE 102010045461 A1 20120315 - SIEMENS AG [DE]
- [A] EP 2853467 A1 20150401 - HITACHI LTD [JP]
- [A] EP 1764280 A1 20070321 - HARRIS CORP [US]

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

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EP 3530547 A1 20190828; CA 3034070 A1 20190821; CN 110171451 A 20190827; SG 10201901329S A 20190927; US 2019256114 A1 20190822

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