

Title (en)

System for the detection of trains on railway lines

Title (de)

System zur Detektion von Zügen auf Eisenbahnschienen

Title (fr)

Système de détection de trains sur les lignes ferroviaires

Publication

EP 2090491 A1 20090819 (EN)

Application

EP 08425091 A 20080214

Priority

EP 08425091 A 20080214

Abstract (en)

A system for detection of trains and digital communication with trains on a railway line with at least one track, which track is divided into a plurality of successive track segments, known as track blocks, and means for generating signals for detection of or communication with the train being provided for each of said track segments and receiving means allowing the track block to receive said detection and communication signals generated by a train by active signal generation or change of the detection and communication signals transmitted to the track block as well as means for processing the detection signals or the communication signals received from the track block to determine the operating or working conditions of the train and/or the track block based on the changes found in the received signals with respect to the transmitted signals and/or on the information contained in the communication signals transmitted by the train and means for generating signals indicative of the operating or working conditions of the train and/or the track block and for transmitting said status signals to a central railway network control unit, known as central Interlocking System, which is connected to said detection and communication unit and receives signals therefrom, indicative of the conditions of the train and/or the track block, and transmits control signals for detection of and communication with the train.

IPC 8 full level

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CPC (source: EP)

B61L 1/188 (2013.01); **B61L 27/53** (2022.01)

Citation (applicant)

- EP 0878373 A2 19981118 - HITACHI LTD [JP]
- WO 0196164 A1 20011220 - SIEMENS AG [DE]
- EP 1338492 A1 20030827 - ALSTOM TRANSP S P A [IT]

Citation (search report)

- [XYA] EP 0878373 A2 19981118 - HITACHI LTD [JP]
- [Y] DE 2047147 A1 19720330 - SEL
- [Y] WO 0196164 A1 20011220 - SIEMENS AG [DE]

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Designated contracting state (EPC)

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Designated extension state (EPC)

AL BA MK RS

DOCDB simple family (publication)

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DOCDB simple family (application)

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