

Title (en)

System for communication with trains on railway lines

Title (de)

System zur Kommunikation mit Zügen auf Eisenbahnstrecken

Title (fr)

Système de communication avec les trains sur les lignes ferroviaires

Publication

**EP 2390158 A2 20111130 (EN)**

Application

**EP 11171102 A 20080214**

Priority

- EP 11171102 A 20080214
- 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

**B61L 1/18** (2006.01); **B61L 27/00** (2006.01)

CPC (source: EP)

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

Citation (applicant)

- EP 1338492 A1 20030827 - ALSTOM TRANSP S P A [IT]
- EP 0771711 A2 19970507 - SASIB RAILWAY S P A [IT]

Cited by

RU190766U1; RU190672U1; RU190673U1; RU192635U1; CN107521527A; RU190670U1; CN112236349A; US9499185B2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

DOCDB simple family (publication)

**EP 2090491 A1 20090819**; **EP 2090491 B1 20110817**; AT E520577 T1 20110915; EP 2390158 A2 20111130; EP 2390158 A3 20120111; EP 2390158 B1 20130417; ES 2371298 T3 20111229; ES 2425341 T3 20131014

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**EP 08425091 A 20080214**; AT 08425091 T 20080214; EP 11171102 A 20080214; ES 08425091 T 20080214; ES 11171102 T 20080214