

Title (en)
SYSTEM FOR LOCALLY MANAGING RAILWAY TRAFFIC IN RAILWAY STATIONS

Title (de)
SYSTEM ZUR LOKALEN VERWALTUNG DES BAHNVERKEHRS IN BAHNHÖFEN

Title (fr)
SYSTÈME DE GESTION LOCALE DU TRAFIC FERROVIAIRE DANS LES GARES

Publication
EP 4101728 A1 20221214 (EN)

Application
EP 21305805 A 20210611

Priority
EP 21305805 A 20210611

Abstract (en)
A system for locally managing railway traffic in a railway station, comprising at least:- a field device installed in or operatively associated with the railway station;- a human-machine interface configured for displaying to an operator fail-safe information indicative of the current operative status of the field device and for outputting an instruction signal indicative of fail-safe instructions, inputted by an operator, to be executed by the field device;- a first control interface which is configured to acquire a first input signal indicative of the current operative status of the field device and to output towards the human-machine-interface a first output signal indicative of the current operative status of the field device to be displayed by the human-machine interface, the first control interface being further configured to output towards the field device, based on a fail-safe instruction inputted by said operator into the human-machine-interface, a command signal indicative of the inputted fail-safe instruction to be executed by the field device;- a first control system configured to execute a predefined first control logic and generate a first check signal based on the first output signal outputted by the first control interface towards the human-machine-interface or a second check signal based on the instruction signal outputted by the human machine interface;- a second control system configured to execute a predefined second control logic and generate a third check signal based on the first output signal outputted by the first control interface towards said human-machine-interface or a fourth check signal based on the instruction signal outputted by the human machine interface; and- a communication interface configured to output towards the first control interface a first confirmation signal enabling the first control interface to output towards the field device the command signal indicative of the fail-safe instruction to be executed by the device only if the second and fourth check signals are consistent to each other, and to output towards the human machine interface a second confirmation signal enabling the display by the human-machine interface of the actual status of the field device only if the first and third check signals are consistent to each other.

IPC 8 full level
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CPC (source: EP)
B61L 27/02 (2013.01); **B61L 27/30** (2022.01)

Citation (search report)
• [Y] US 2014229040 A1 20140814 - WEBER CLAUS [US], et al
• [Y] EP 3608200 A1 20200212 - CRSC RESEARCH & DESIGN INSTITUTE GROUP CO LTD [CN]
• [I] ANDREAS LINHARDT: "Ein Konzept, viele Anwendungen – Der Doppelrechner A212 als sicheres Modul / One concept, multiple applications – the A212 double controller as a safe module", SIGNAL UND DRAHT: SIGNALLING & DATACOMMUNICATION, vol. 108, no. 1+2, 9 February 2016 (2016-02-09), DE, pages 36 - 43, XP055249254, ISSN: 0037-4997

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