

Title (en)
TRAIN TRAFFIC CONTROL SYSTEM AND METHOD FOR CARRYING OUT SAFETY CRITICAL OPERATIONS WITHIN A TRAIN TRAFFIC CONTROL SYSTEM

Title (de)
ZUGVERKEHRSSTEUERUNGSSYSTEM UND VERFAHREN ZUM DURCHFÜHREN VON SICHERHEITSKRITISCHEN BAHNBETRIEBSPROZESSEN IN EINEM ZUGVERKEHRSSTEUERUNGSSYSTEM

Title (fr)
SYSTÈME DE COMMANDE DE TRAFIC FERROVIAIRE ET PROCÉDÉ POUR EFFECTUER DES OPÉRATIONS CRITIQUES DE SÉCURITÉ DANS UN SYSTÈME DE COMMANDE DE TRAFIC FERROVIAIRE

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EP 3549841 A1 20191009 (EN)

Application
EP 18166202 A 20180406

Priority
EP 18166202 A 20180406

Abstract (en)
A train traffic control system comprising a traffic management system (TMS) for executing safety critical operations, a route and train control system (RTCS), and a command and status adapter (COST), wherein the train traffic control system is adapted to exchange information and commands between the traffic management system (TMS) and the route and train control system (RTCS), wherein the command and status adapter (COST) comprises software components for carrying out functions with basic integrity, wherein the traffic control system further comprises a software component for carrying out a function for controlling safety critical operations, is characterized in that the function for controlling safety critical operations is outsourced from the command and status adapter (COST). The inventive train traffic control system on the one hand realizes a high safety level and on the other hand allows considerable cost reduction.

IPC 8 full level
B61L 19/06 (2006.01); **B61L 21/06** (2006.01); **B61L 27/00** (2006.01)

CPC (source: EP)
B61L 19/06 (2013.01); **B61L 21/06** (2013.01); **B61L 27/30** (2022.01); **B61L 2019/065** (2013.01)

Citation (applicant)
• MEIER ET AL.: "Kompakte Mensch-Maschine-Schnittstelle (Compact HMI", SIGNAL & DRAHT, vol. 95, 2003, pages 7 - 8
• WEIB ET AL.: "Innovative Fernsteuerung von Alcatel für die U-Bahn München", SIGNAL & DRAHT, vol. 92, 2000, pages 7 - 8
• RAHN ET AL.: "Anschluss von Relaisstellwerken an Betriebszentralen", SIGNAL & DRAHT, vol. 95, 2003, pages 10

Citation (search report)
• [XY] WO 2006051355 A1 20060518 - ABB AS [NO], et al
• [X] WO 2009092081 A1 20090723 - LOCKHEED CORP [US], et al
• [A] DE 102014201551 A1 20150730 - SIEMENS AG [DE]
• [Y] EP 2879008 A1 20150603 - THALES DEUTSCHLAND GMBH [DE]

Cited by
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