

Title (en)
TRAIN CONTROL DMI DATA REDUNDANCY CONTROL METHOD AND SYSTEM

Title (de)
VERFAHREN UND SYSTEM ZUR STEUERUNG DER DMI-DATENREDUNDANZ EINER ZUGSTEUERUNG

Title (fr)
PROCÉDÉ ET SYSTÈME DE COMMANDE DE REDONDANCE DE DONNÉES DMI DE COMMANDE DE TRAIN

Publication
EP 3828055 A4 20210825 (EN)

Application
EP 20785892 A 20200811

Priority
• CN 201910988880 A 20191017
• CN 2020108331 W 20200811

Abstract (en)
[origin: EP3828055A1] The present invention proposes a train control DMI data redundancy control method and system; the DMI simultaneously receives and processes two sets of data in a mutual primary-standby relationship, the DMI judges the primary-standby relationship based on a parsing result of the data, and the DMI displays primary system data; the system comprises two main control units, configured to respectively send data to the DMI, the two sets of data being in a mutual primary-standby relationship; and the DMI, configured to simultaneously receive and process the two sets of data in a mutual primary-standby relationship, judge the primary-standby relationship based on a parsing result of the data, and display primary system data; the DMI simultaneously receives the data sent by the two main control units, and respectively uses the two main control units as a primary system and a standby system according to two primary-standby system identifiers; when the primary system is abnormal, the two primary-standby system identifiers change, and the driver machine interface switches the primary system and the standby system after identifying change of the two primary-standby system identifiers, without affecting content displayed by the DMI, and without configuring a switching module, which has a simple structure and high switching efficiency.

IPC 8 full level
B61L 15/00 (2006.01)

CPC (source: CN EP)
B61L 15/0036 (2013.01 - CN); **B61L 15/0063** (2013.01 - EP); **B61L 15/0072** (2013.01 - EP); **B61L 15/009** (2013.01 - EP);
B61L 15/0081 (2013.01 - EP)

Citation (search report)
• [X] CN 109720379 A 20190507 - HENAN THINKER AUTOMATIC EQUIPMENT CO LTD
• [XA] KR 20130013794 A 20130206 - HYUNDAI ROTEM CO [KR]
• [A] US 2015172162 A1 20150618 - VAANANEN PASI JUKKA PETTERI [US], et al
• [A] EP 2253525 A1 20101124 - HUAWEI TECH CO LTD [CN]
• See references of WO 2021073221A1

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

DOCDB simple family (publication)
EP 3828055 A1 20210602; EP 3828055 A4 20210825; EP 3828055 B1 20220928; CN 110789569 A 20200214; CN 110789569 B 20220422;
EA 202092375 A1 20210802; HU E060600 T2 20230328; RS 63730 B1 20221230; WO 2021073221 A1 20210422

DOCDB simple family (application)
EP 20785892 A 20200811; CN 201910988880 A 20191017; CN 2020108331 W 20200811; EA 202092375 A 20200811;
HU E20785892 A 20200811; RS P20221049 A 20200811