

Title (en)

Bus system and method for operating a bus system

Title (de)

Bus-System und Verfahren zum Betreiben eines Bus-Systems

Title (fr)

Système de bus et procédé pour faire fonctionner un système de bus

Publication

EP 2833333 B1 20181219 (EN)

Application

EP 13178845 A 20130731

Priority

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Abstract (en)

[origin: EP2833333A1] The present invention is directed to a method and a system for operating a bus system. The bus system comprises at least two bus lines formed as respective loops, a plurality of switching elements 5 1 to 5 n connected in series so as to divide one of the bus lines in a plurality of sections, a central control unit 7 connected with the ends of the bus lines 1, 3, and a plurality of bus devices 9 1 to 9 m connected in parallel between the two bus lines 1, 3 and distributed along the bus lines 1, 3 so that a bus device 9 y is interposed between two consecutive switching elements 5 x , 5 x+1 . The method comprise applying a supply voltage to both ends of the bus lines 1, 3 starting from terminals A, B of the central processing unit 7 and closing the switching elements 5 1 , 5 n upon reception of the supply voltage, so as to connect the subsequent respective sections of the bus from both ends, until all switching elements 5 1 , 5 2 , 5 3 , 5 4 , ... 5 n are closed or until a short circuit is detected. If a short circuit is detected, the last two switching elements closed before detecting the short circuit will be re-opened and the connection of the bus devices will continue only from one side, either terminal A side or terminal B side.

IPC 8 full level

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CPC (source: EP)

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Cited by

EP3503591A1; CN109991503A; EP3825973A1; JP2021534475A; US11367339B2; US11425501B2; WO2018187269A1; US11263895B2; US11545026B2; WO2019242863A1

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