

Title (en)

DEVICE AND METHOD FOR CONTROLLING A MACHINE BY MEANS OF CODED AND UNCODED PROGRAM CODE

Title (de)

VORRICHTUNG UND VERFAHREN ZUM STEUERN EINER MASCHINE MIT CODIERTEM UND NICHT CODIERTEM PROGRAMMCODE

Title (fr)

DISPOSITIF ET PROCÉDÉ DE COMMANDE D'UNE MACHINE PAR UN CODE DE PROGRAMME CODÉ ET NON CODÉ

Publication

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Application

EP 10748054 A 20100819

Priority

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Abstract (en)

[origin: WO2012022362A1] The aim of the invention is to design a highly available system especially for automation technology, which allows for a platform-independent diagnosis. The device for controlling a machine comprises a first controller (1) which can process a first program code (7) for controlling, a parallel second controller (2) which can process a second program code (8) for controlling, and a synchronization device for synchronizing the first controller with the second controller. The first program code (7) is a coded program code in which operating instructions and/or data structures are coded with respect to an underlying source code (9). The second program code (8) is an uncoded program code in which operating instructions and/or data structures are not coded with respect to the source code (9). The synchronization device (3) has a coding device (12) for coding or decoding data that are communicated during synchronization according to the coding of the first program code (7) depending on the communication direction.

IPC 8 full level

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CPC (source: EP)

G06F 11/362 (2013.01); **G06F 11/2038** (2013.01); **G06F 11/2097** (2013.01)

Citation (search report)

See references of WO 2012022362A1

Citation (examination)

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- CHENG WANG ET AL: "Compiler-Managed Software-based Redundant Multi-Threading for Transient Fault Detection", FIFTH INTERNATIONAL SYMPOSIUM ON CODE GENERATION AND OPTIMIZATION (CGO '07). MARCH 11-14, 2007, IEEE, PI, 11 March 2007 (2007-03-11), pages 244 - 258, XP058094934, ISBN: 978-0-7695-2764-2, DOI: 10.1109/CGO.2007.7

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