

Title (en)

METHOD AND SAFETY-ORIENTED SYSTEM FOR PERFORMING SAFETY FUNCTIONS

Title (de)

VERFAHREN UND SICHERHEITSGERICHTETES SYSTEM ZUM AUSFÜHREN VON SICHERHEITSFUNKTIONEN

Title (fr)

PROCÉDÉ ET SYSTÈME DE SÉCURITÉ POUR L'EXÉCUTION DE FONCTIONS DE SÉCURITÉ

Publication

**EP 4127934 A1 20230208 (DE)**

Application

**EP 21721402 A 20210406**

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Abstract (en)

[origin: WO2021219329A1] The invention relates to a method for performing safety functions of a safety-oriented system (1) that comprises at least two computing devices (12, 14, 212, 214), a forwarding device (18) and a communication network (16). To simplify the safety-oriented system (1) while simultaneously increasing flexibility for the use and development of the system (1), the method comprises: calculating (A, AA) a respective result of the same task by means of the computing devices (12, 14, 212, 214), generating (B) a respective arithmetic result data stream (22, 24, 222, 224), which represents the result of the respective calculation, by means of the computing devices (12, 14, 212, 214), transmitting (D) the respective arithmetic result data stream (22, 24, 222, 224) to the forwarding device (18), logically combining (E) the calculated arithmetic result data streams (22, 24, 222, 224) by means of a logic unit (32) of the forwarding device (18) according to a combinational logic, generating (F) a combination result data stream (26, 326), which represents the result of the logic operation, by means of the forwarding device (18), providing (G) the combination result data stream (26, 326) to the communication network (16) by means of the forwarding device (18), the combinational logic being a bit-by-bit logic.

IPC 8 full level

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Citation (search report)

See references of WO 2021219329A1

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