

Title (en)

METHOD AND CONTROL DEVICE FOR GENERATING A RANDOM VALUE BY MEANS OF A MICROCONTROLLER

Title (de)

VERFAHREN UND STEUERGERÄT ZUM ERZEUGEN EINES ZUFALLSWERTS UNTER VERWENDUNG EINES MICROCONTROLLERS

Title (fr)

PROCÉDÉ ET DISPOSITIF DE COMMANDE POUR GÉNÉRER UNE VALEUR ALÉATOIRE AU MOYEN D'UN MICROCONTRÔLEUR

Publication

**EP 4363990 A1 20240508 (DE)**

Application

**EP 22740788 A 20220624**

Priority

- DE 102021117008 A 20210701
- EP 2022067337 W 20220624

Abstract (en)

[origin: WO2023274872A1] The present invention relates to a method for generating a random value (100) by means of a microcontroller (104), wherein an analog temperature signal (110) of an internal temperature sensor (106) of the microcontroller (104) is digitalized by means of an internal analog-to-digital converter (108) of the microcontroller (104) to form a binary temperature value (112), and wherein the random value (100) is derived from the binary temperature value (112).

IPC 8 full level

**G06F 15/78** (2006.01); **G06F 7/58** (2006.01)

CPC (source: EP)

**G06F 7/588** (2013.01); **G06F 15/7842** (2013.01)

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

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

**DE 102021117008 A1 20230105**; CN 117581219 A 20240220; EP 4363990 A1 20240508; WO 2023274872 A1 20230105

DOCDB simple family (application)

**DE 102021117008 A 20210701**; CN 202280045735 A 20220624; EP 2022067337 W 20220624; EP 22740788 A 20220624