

Title (en)

METHOD FOR ENVIRONMENTAL RESISTANT TRUE RANDOM NUMBER GENERATION

Title (de)

VERFAHREN ZUR ERZEUGUNG VON UMGEBUNGSRESISTENTEN ECHTEN ZUFALLSZAHLEN

Title (fr)

PROCÉDÉ DE GÉNÉRATION DE NOMBRES ALÉATOIRES MATÉRIELLE RÉSISTANT À L'ENVIRONNEMENT

Publication

**EP 3563229 A1 20191106 (EN)**

Application

**EP 17823168 A 20171227**

Priority

- US 201662440763 P 20161230
- EP 2017084611 W 20171227

Abstract (en)

[origin: WO2018122240A1] A true random number generator (TRNG) system includes a first noise source configured to generate first analog noise signals and a second noise source identical to the first noise source and configured to generate second analog noise signals. An analog comparator receives the first analog noise signals and the second analog noise signals as inputs and outputs digital signals based on comparisons of the first analog noise signals and the second analog noise signals. A conversion system receives the digital signals and generates a random bit stream signal from the digital signals. An output pin is coupled to receive the random bit stream signal from the conversion system.

IPC 8 full level

**G06F 7/58** (2006.01)

CPC (source: EP KR)

**G06F 7/588** (2013.01 - EP KR)

Citation (search report)

See references of WO 2018122240A1

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)

**WO 2018122240 A1 20180705**; CN 110100234 A 20190806; EP 3563229 A1 20191106; KR 20190097075 A 20190820

DOCDB simple family (application)

**EP 2017084611 W 20171227**; CN 201780081533 A 20171227; EP 17823168 A 20171227; KR 20197018498 A 20171227