

Title (en)
USE OF A PUF FOR CHECKING AUTHENTICATION, IN PARTICULAR FOR PROTECTING AGAINST UNAUTHORIZED ACCESS TO A FUNCTION OF AN IC OR A CONTROL DEVICE

Title (de)
VERWENDEN EINER PUF ZUR PRÜFUNG EINER AUTHENTISIERUNG, INSBESONDERE ZUM SCHUTZ VOR UNBERECHTIGTEM ZUGRIFF AUF EINE FUNKTION EINES ICS ODER STEUERGERÄTES

Title (fr)
EMPLOI D'UNE FONCTION PUF POUR LA VÉRIFICATION D'UNE AUTHENTIFICATION, EN PARTICULIER POUR LA PROTECTION CONTRE UN ACCÈS NON AUTORISÉ À UNE FONCTION D'UN ICS OU D'UN APPAREIL DE COMMANDE

Publication
EP 2868032 A2 20150506 (DE)

Application
EP 13753119 A 20130813

Priority
• DE 102012219112 A 20121019
• EP 2013066875 W 20130813

Abstract (en)
[origin: WO2014060134A2] In order to check authentication using a physical unclonable function (6), an authenticator (3) comprises a PUF (6) and an authentication checking function (5). A challenge response pair (4A) comprising an item of challenge information (C) and an item of response information (R) is provided for the authenticator (3). The challenge information (C) is used as an input for the PUF (6) which generates a PUF response (PR) in response to the input of the challenge information (C). The PUF response (PR) and the response (R) are used for a comparison, wherein an enable signal (A) is provided on the basis of a result of the comparison.

IPC 8 full level
H04L 9/32 (2006.01); **G01R 31/3187** (2006.01)

CPC (source: EP US)
G06F 21/45 (2013.01 - US); **H04L 9/3278** (2013.01 - EP US); **H04L 63/083** (2013.01 - US); **H04L 63/105** (2013.01 - US); **G06F 2221/2121** (2013.01 - US)

Citation (search report)
See references of WO 2014060134A2

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)
DE 102012219112 A1 20140424; CN 104782076 A 20150715; EP 2868032 A2 20150506; US 2015269378 A1 20150924; WO 2014060134 A2 20140424; WO 2014060134 A3 20140710

DOCDB simple family (application)
DE 102012219112 A 20121019; CN 201380054634 A 20130813; EP 13753119 A 20130813; EP 2013066875 W 20130813; US 201314435584 A 20130813