

Title (en)  
AUTHENTICATION USING CURRENT DRAWN BY SECURITY DEVICE

Title (de)  
AUTHENTIFIZIERUNG UNTER VERWENDUNG DES VON EINER SICHERHEITSVORRICHTUNG GEZOGENEN STROMS

Title (fr)  
AUTHENTIFICATION À L'AIDE D'UN COURANT TIRÉ PAR UN DISPOSITIF DE SÉCURITÉ

Publication  
**EP 4211579 A4 20240605 (EN)**

Application  
**EP 21867527 A 20210908**

Priority  
• US 202063075482 P 20200908  
• US 2021049491 W 20210908

Abstract (en)  
[origin: CN116134441A] A method for determining authenticity of a component in an imaging device is disclosed. Embodiments of the present disclosure provide a method for a device to authenticate a second device using an electronic authentication scheme while overcoming vulnerabilities associated with sending data over a communication bus when performing authentication by using information other than information transmitted over a shared bus as authentication parameters. Embodiments utilize, as an authentication parameter, a current drawn by a chip from a power source when the chip performs an operation in response to a command.

IPC 8 full level  
**G06F 21/44** (2013.01); **G06F 21/10** (2013.01); **G06F 21/30** (2013.01); **G06F 21/55** (2013.01); **G06F 21/60** (2013.01); **G06F 21/73** (2013.01); **G06F 21/85** (2013.01); **H04L 9/32** (2006.01); **H04L 9/40** (2022.01); **H04W 12/06** (2021.01); **H04W 12/10** (2021.01); **H04W 12/12** (2021.01)

CPC (source: EP)  
**G06F 21/30** (2013.01); **G06F 21/44** (2013.01); **G06F 21/73** (2013.01); **H04L 9/3271** (2013.01); **H04L 63/08** (2013.01); **H04W 12/06** (2013.01); **G06F 21/10** (2013.01); **G06F 21/55** (2013.01); **G06F 21/60** (2013.01); **H04L 63/04** (2013.01); **H04L 63/14** (2013.01); **H04W 12/10** (2013.01); **H04W 12/12** (2013.01)

Citation (search report)  
• [X] US 2017235939 A1 20170817 - CAPOREALE CHRISTOPHER P [US], et al  
• [A] US 2012317662 A1 20121213 - NEO TECKKHIM [SG], et al  
• [A] US 10073990 B1 20180911 - SHIEH SUI [US], et al  
• See references of WO 2022056019A1

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

DOCDB simple family (publication)  
CN 116134441 A 20230516; EP 4211579 A1 20230719; EP 4211579 A4 20240605

DOCDB simple family (application)  
CN 202180061767 A 20210908; EP 21867527 A 20210908