Title (en)

HIGH-FREQUENCY-NFC-BASED PRODUCT TRACEABILITY AND ANTI-COUNTERFEITING TAG

Title (de)

AUF HOCHFREQUENTER NFC BASIERENDES PRODUKTVERFOLGBARKEITS- UND -FÄLSCHUNGSSICHERUNGSETIKETT

Title (fr)

TRAÇABILITÉ DE PRODUIT HAUTE FRÉQUENCE À BASE NFC ET ÉTIQUETTE ANTI-CONTREFAÇON

Publication

EP 3667631 A1 20200617 (EN)

Application

EP 18212092 A 20181212

Priority

EP 18212092 A 20181212

Abstract (en)

The NFC-based tag includes a substrate, a first and second coils formed on the substrate and an NFC chip fixed on the substrate. A status code whose default value is 0 is stored in memory of the NFC chip. The first coil is connected to the NFC chip and serves as an antenna thereof. The NFC chip communicates with an NFC reader through the first coil. The NFC reader can read or write the status code through the first coil. The NFC chip has an IO contact and a grounding contact. The IO contact connects to the grounding contact via the second coil. The second coil serves as an EAS coil. The IO contact is connected to the grounding contact through the second coil to form a closed loop. The NFC reader rewrites the status code to be 1 irreversibly when the second coil is broken or has finished checkout.

IPC 8 full level

G08B 13/24 (2006.01)

CPC (source: EP)

G08B 13/2417 (2013.01); **G08B 13/2448** (2013.01); **G08B 13/246** (2013.01)

Citation (search report)

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- [A] US 2013105584 A1 20130502 - FORSTER IAN JAMES [GB]
- [A] US 2018040219 A1 20180208 - CLARK JOHN J [US], et al
- [A] CN 204463188 U 20150708 - HY LINK SCIENCE & TECHNOLOGY CO LTD
- [A] US 2006049947 A1 20060309 - FORSTER IAN J [GB]
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- [A] US 9390603 B2 20160712 - LI MORUI [US], et al

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)

EP 3667631 A1 20200617

DOCDB simple family (application)

EP 18212092 A 20181212