Title (en)

SYSTEM FOR THE STORAGE, DISTRIBUTION AND BINDING, SLIP-FREE OFFLINE TRANSMISSION OF E-VALUES USING A MOBILE DEVICE WITH SHORT TRANSACTION TIME

Title (de)

SYSTEM ZUM SPEICHERN, TEILEN UND VERBINDLICHEN, SCHLUPFFREIEN OFFLINE-ÜBERTRAGEN VON E-WERTEN MIT MOBILEM GERÄT MIT KURZER TRANSAKTIONSZEIT

Title (fr)

SYSTÈME DE STOCKAGE, DE DISTRIBUTION ET DE TRANSMISSION HORS LIGNE DE MANIÈRE CONTRACTUELLE ET SANS GLISSEMENT DE VALEURS ÉLECTRONIQUES AVEC UN APPAREIL MOBILE AVEC UN COURT TEMPS DE TRANSACTION

Publication

EP 3776424 A1 20210217 (DE)

Application

EP 19713052 A 20190328

Priority

- EP 18165251 A 20180329
- EP 2019057852 W 20190328

Abstract (en)

[origin: WO2019185791A1] What is claimed is a system (1) for the tamper-proof storage, distribution and querying or transmission of electronic values (4), that is to say e-values (4), comprising a mobile device (2) with an e-value (4), a terminal (5) and a control unit (7). The e-value (4) represents an identifier, a real asset or electronic currency, that is to say e-currency. The e-value (4) is preferably present as an e-value (4*) comprising a load token TL (41) and a spend token TS (42). As an alternative or in addition, the terminal (5) comprises a security element SEALS-SE (3), wherein the security element SEALS-SE (3) is suitable for storing and transmitting e-values with a binding transaction also using a device (2) without a security element SE and without an Internet connection at the time of the payment procedure. If the e-value (4, 4*) represents e-currency, the control unit (7) is not a server. Also claimed is an e-value (4**) for the tamper-proof storage, distribution and querying or transmission of e-values (4**), wherein the e-value (4**) does not represent e-currency. Also claimed is a method for the secure storage, distribution and transmission of e-values (4, 4*, 4**) using the device (2), and the use of the system (1) and of a physical security element SEALS-SE (3) in a terminal (5). According to the invention, the terminal (5) and the device (2) do not have to be connected to the control unit (7) at the time of a transmission procedure for a binding transaction, and may thus be offline.

IPC 8 full level

G06Q 20/36 (2012.01); G06Q 20/06 (2012.01); G06Q 20/10 (2012.01); G06Q 20/18 (2012.01); G06Q 20/32 (2012.01)

CPC (source: EP)

G06Q 20/0658 (2013.01); G06Q 20/105 (2013.01); G06Q 20/18 (2013.01); G06Q 20/3223 (2013.01); G06Q 20/3226 (2013.01); G06Q 20/3227 (2013.01); G06Q 20/3278 (2013.01); G06Q 20/3678 (2013.01)

Citation (search report)

See references of WO 2019185791A1

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 2019185791 A1 20191003; EP 3776424 A1 20210217

DOCDB simple family (application)

EP 2019057852 W 20190328; EP 19713052 A 20190328