

Title (en)

METHOD FOR DIRECTLY TRANSMITTING ELECTRONIC COIN DATA SETS BETWEEN TERMINALS AND A PAYMENT SYSTEM

Title (de)

VERFAHREN ZUM DIREKTEN ÜBERTRAGEN VON ELEKTRONISCHEN MÜNZDATENSÄTZEN ZWISCHEN ENDGERÄTEN SOWIE BEZAHLSYSTEM

Title (fr)

PROCÉDÉ POUR LE TRANSFERT DIRECT DE JEUX DE DONNÉES ÉLECTRONIQUES DE MONNAIE ENTRE DES TERMINAUX AINSI QUE SYSTÈME DE PAIEMENT

Publication

EP 3956846 A1 20220223 (DE)

Application

EP 20719977 A 20200414

Priority

- DE 102019002732 A 20190415
- EP 2020060446 W 20200414

Abstract (en)

[origin: WO2020212337A1] The invention relates to a method for directly transmitting an electronic coin data set between a first and a second terminal, said method comprising the following steps performed by the second terminal: receiving the electronic coin data set from the first terminal, the at least one electronic coin data set having a monetary value and a concealment value; generating a modified electronic coin data set using the received electronic coin data set; masking the modified electronic coin data set by applying a homomorphous one-way function to the modified electronic coin data set in order to obtain a masked, modified electronic coin data set; and sending a registration request for the masked, modified electronic coin data set to a monitoring authority. The invention additionally relates to a currency system and a payment system having a decentrally controlled database in the masked electronic coin data sets; and a direct transaction layer with at least two terminals, in which the method can be performed.

IPC 8 full level

G06Q 20/22 (2012.01); **G06Q 20/02** (2012.01); **G06Q 20/06** (2012.01); **G06Q 20/32** (2012.01); **G06Q 20/38** (2012.01)

CPC (source: EP US)

G06Q 20/02 (2013.01 - EP); **G06Q 20/065** (2013.01 - US); **G06Q 20/0658** (2013.01 - EP); **G06Q 20/10** (2013.01 - EP); **G06Q 20/223** (2013.01 - EP); **G06Q 20/3827** (2013.01 - EP); **G06Q 20/383** (2013.01 - US); **H04L 9/008** (2013.01 - EP US); **H04L 9/3218** (2013.01 - EP); **H04L 9/3239** (2013.01 - EP); **H04L 9/50** (2022.05 - EP); **H04L 63/123** (2013.01 - EP); **G06Q 20/3229** (2013.01 - EP); **G06Q 20/3825** (2013.01 - EP); **G06Q 2220/00** (2013.01 - EP); **H04L 2209/04** (2013.01 - US); **H04L 2209/42** (2013.01 - EP); **H04L 2209/56** (2013.01 - EP US)

Citation (search report)

See references of WO 2020212337A1

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 102019002732 A1 20201015; CN 113994357 A 20220128; EP 3956846 A1 20220223; US 2022215355 A1 20220707; WO 2020212337 A1 20201022

DOCDB simple family (application)

DE 102019002732 A 20190415; CN 202080037158 A 20200414; EP 2020060446 W 20200414; EP 20719977 A 20200414; US 202017594419 A 20200414