

1. JP2020533671 - IMPROVED TIME-LOCKING TECHNOLOGY TO PROTECT RESOURCES IN BLOCKCHAIN

National Biblio. Data Full Text Patent Family Documents

PermaLink Machine translation

Office

Japan

Application Number

2020512497

Application Date

04.09.2018

Publication Number

2020533671

Publication Date

19.11.2020

Grant Number

7264878

Grant Date

17.04.2023

Publication Kind

B6

IPC

G06F 21/62

CPC

H04L 9/3236 H04L 9/3297 H04L 9/50

G06Q 20/40155 G06Q 20/3829

G06Q 2220/00

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FI

G06F 21/62,318 H04L 9/32,200Z

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Title

Improved time-locking technology to protect resources in blockchain

Abstract

[JA]

The present invention includes a solution to protect the output (UTXO) of a single blockchain (eg, Bitcoin) transaction (TX), so that it can be unlocked only by an authorized person at an authorized time according to external data supplied to the transaction locking script. The present invention can include the following two steps implemented within the readem script provided within the locking script of the UTXO: 1) a time-related value [T_{supplied}Let's call it that]; and 2) In order to ensure that unlocking occurs at a predetermined time, in the time locking technique, the calculated T_{supplied}Use values. The present invention permits the introduction of external data into the time lock control of transactions in the blockchain. The present application also includes techniques that combine absolute and relative time locking (eg, a combination of CLTV and CSV as known in the Bitcoin protocol).

Related patent documents

[CN111095861](#) [EP3679685](#) [WO/2019/049022](#) [US20200279256](#) [JP2023089153](#) [US20240338690](#)



Priority Data

1714517.8 08.09.2017 GB

PCT/IB2017/055430 08.09.2017 IB

