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How to patent blockchain-related innovations?

Case studies





Blockchain is a database.

Data in a database is stored in "containers" – blocks.

"Container" is of specified size (e.g. 1 MB) and structure.

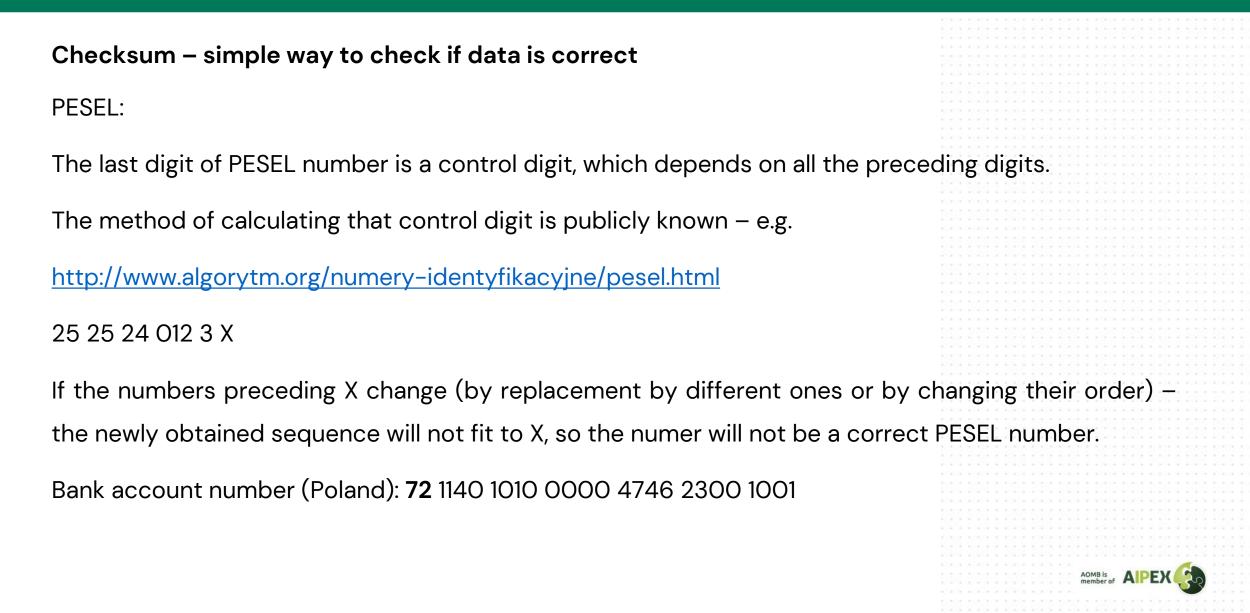
Each block comprises main data and additionally – among others, a timestamp <u>and a so called "hash"</u> of the preceding block.

",Hash" = cryptographic abbreviation of content. It is similar to checksum – but is more sophisticated.

0x945eb660aee95fb571272530d363409d5770ecc0cf5831a889dfafd8d9fb3d74







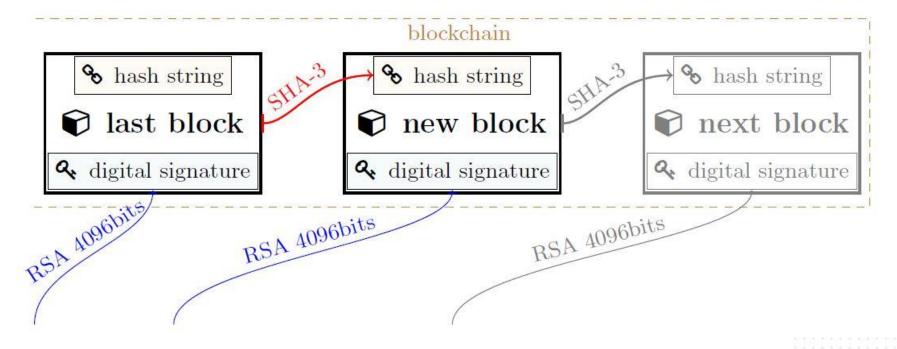


AOMB is

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Each block comprises main data and additionally – among others, a timestamp <u>and a so called "hash"</u> of the **preceding** block.

0x945eb660aee95fb571272530d363409d5770ecc0cf5831a889dfafd8d9fb3d74

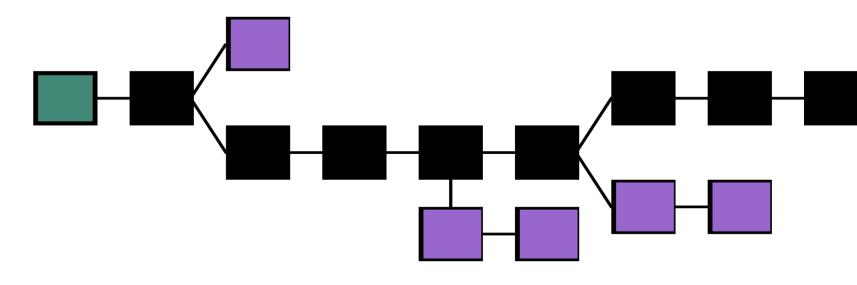


Source: EP 3 945 704 B1 "A method and a system for securing data, especially data of biotechnological laboratories"



Data change within Blockchain

Data change within Blockchain would either leave a trace (because the altered data would not correspond to the hash, so: it would be evident that data has been altered) or would require immense workload: it would be necessary to change the hash of the changed block, and in turns – necessary to change data in the next block, and then further for yet the next block etc. – for <u>all</u> subsequent blocks. And there are billions of blocks....



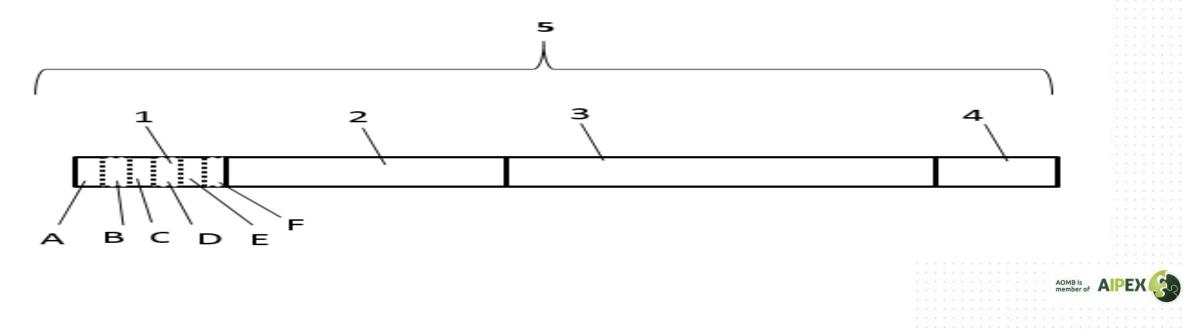


Example 1

How to save any file ("content") in blockchain, together with information of its source (proprietor) and a timestamp?

Answer: EP 3 579 496 B1 or US 10,944,548 B2 (or JP 7062838 B2)

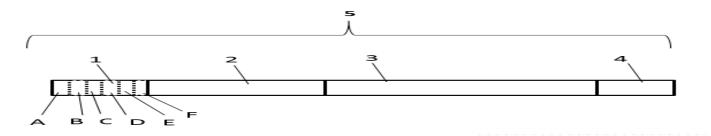
"A method for registering of a data as digital file in a blockchain database"





Here is how to do it:

Make a data sequence comprising



information about data (2), information about source (3), optionally a heading (1) and optionally a suffix (4), such that the length of the data sequence is a multiple of the size of the standard data container used in said blockchain database (e.g. 1 MB).

Divide the so obtained sequence into N parts of equal length.

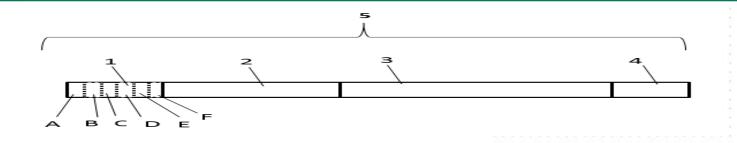
Generate N corresponding transactions, sign them electronically and save tchem in N containers in blockchain.

The heading (1) may include data concerning e.g. file version, file type, number of containers N, etc.

Information about data (2) – it may be the data itself or its hash.

Suffix (4) may include relevant or irrelevant data (like zero-digits only).





The heading (1) may include data concerning e.g. file version, file type, number of containers N, etc.

Information about data (2) – it may be the data itself or its hash.

Suffix (4) may include relevant or irrelevant data (like zero-digits only).

The data sequence in the frame may be different than 1-2-3-4.





1. A method for registering of a digital document as a digital file in a blockchain database, in which database transactions are constructed of standard data containers which may have a fixed size, in a system comprising one or more storage nodes for storing at least part of the blockchain database, one or more approval nodes for approving transactions in said blockchain database and a first computer for generating transactions in said blockchain database, said computer having access to said blockchain database and having access to a first private key, comprising the following steps:

a) providing a first set of data (2), relating to the contents of the digital file;

b) providing a second set of data (3), relating to the origin of the digital file;

c) generating a third set of data (5) by merging the first set of data (2), the second set of data (3), optionally a header (1) and optionally a suffix (4) into a data frame, wherein the header (1) may contain information about the structure of the third set of data, about the size of the first set of data (2), while the size of the suffix (4) is adjusted such that the size of the data frame is a multiple of the size of the standard data container used in said blockchain database;



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... d) dividing the third set of data (5) into an integer number N≥1 of parts of equal size, said size corresponding to the size of the standard data container used in said blockchain database;

e) generating – by said first computer or an intermediary computer connected to the first computer and said one or more of the approval nodes – a single blockchain transaction for all the N parts obtained in the step d), signing the transaction by said first private key and sending the transaction and a first public key matching the said first private key to said one or more approval nodes for approval;

f) obtaining approval for the transaction from said one or more approval nodes;

g) registering the transaction approved in the step f) in a block of the blockchain database with a timestamp of registration by the one or more storage nodes,

wherein the second set of data (3) comprises a digital signature of a hash of the digital file and

wherein registering of the digital document as the digital file in the blockchain database is done by a first entity and the digital document is transmitted from the first entity to a second entity.



EP 3 579 496 B1 (11)

EUROPEAN PATENT SPECIFICATION

(45) Date of publication and mention of the grant of the patent: 07.10.2020 Bulletin 2020/41

(21) Application number: 19159419.1

(22) Date of filing: 26.02.2019

(12)

(54) A METHOD FOR REGISTERING OF A DATA AS DIGITAL FILE IN A BLOCKCHAIN DATABASE

(51) Int CI.:

H04L 9/32 (2006.01)

VERFAHREN ZUR REGISTRIERUNG VON DATEN ALS DIGITALE DATEI IN EINER BLOCKKETTENDATENBANK

PROCÉDÉ D'ENREGISTREMENT D'UNE DONNÉE SOUS FORME DE FICHIER NUMÉRIQUE DANS UNE BASE DE DONNÉES DE CHAÎNE DE BLOCS

(84)	Designated Contracting States:	(56) References cited:
	AL AT BE BG CH CY CZ DE DK EE ES FI FR GB	US-A1- 2016 283 920 US-A1- 2018 139 056
	GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO	
	PL PT RO RS SE SI SK SM TR	 ZHENG PEILIN ET AL: "A Detailed and Real-Time
		Performance Monitoring Framework for
(30)	Priority: 07.06.2018 EP 18461565	Blockchain Systems", 2018 IEEE/ACM 40TH
(/	19.09.2018 EP 18195583	INTERNATIONAL CONFERENCE ON SOFTWAR
		ENGINEERING: SOFTWARE ENGINEERING IN
(43)	Date of publication of application:	PRACTICE TRACK (ICSE-SEIP), ACM, 25 May
(,	11.12.2019 Bulletin 2019/50	2018 (2018-05-25), pages 134-143, XP033396280
		PASQUALE FORTE ET AL: "Beyond Bitcoin - Par
(73)	Proprietor: Coinfirm Blockchain Lab Sp. z o.o.	I: A critical look at blockchain-based systems",
(,	87-100 Torun (PL)	INTERNATIONAL ASSOCIATION FOR
		CRYPTOLOGIC RESEARCH., vol.
(72)	Inventors:	20151202:213043. 1 December 2015 (2015-12-01)
	ALEKSANDER, Pawel, Zygmunt	pages 1-34, XP061019757,
	88-150 Kobylniki (PL)	GIPP BELA ET AL: "CryptSubmit: Introducing
	KUSKOWSKI. Pawel	Securely Timestamped Manuscript Submission
	87-400 Golub-Dobrzyn (PL)	and Peer Review Feedback Using the
	FIJOLEK, Jakub	Blockchain", 2017 ACM/IEEE JOINT
•		
	85-034 Bydgoszcz (PL)	CONFERENCE ON DIGITAL LIBRARIES (JCDL)
-		IEEE, 19 June 2017 (2017-06-19), pages 1-4,
(74)	Representative: AOMB Polska Sp. z.o.o.	XP033131302, DOI: 10.1109/JCDL.2017.7991588
	UI. Emilii Plater 53	
	21st Floor	
	00-113 Warsaw (PL)	

Б 496 579 ŝ Ъ

Note: Within nine months of the publication of the mention of the grant of the European patent in the European Patent Bulletin, any person may give notice to the European Patent Office of opposition to that patent, in accordance with the Implementing Regulations. Notice of opposition shall not be deemed to have been filed until the opposition fee has been paid. (Art. 99(1) European Patent Convention).

Printed by Jouve, 75001 PARIS (FR)

METHOD FOR VERIFYING DATA Goff 16/152; H04L (71) Applicant: Ceinfirm Blockchain Lab Sp. Zo.o., Torun (PL) (Continued) (72) Inventors: Pawel Zygmunt Aleksander, Kobylniki (PL): Pawel Kuskowski, Golub:-Dohryny (PL): Jakub Fijolek, Bydgoszez (PL) U.S. PATENT DOCUMENTS (73) Assignee: CONFIRM BLOCKCHAIN LAB SP. Z O.O., Torun (PL) (Continued) (*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 229 days. (Continued) (21) Appl. No:: 16/231,367 OTHER PUBLICATIONS (22) Filed: Dec. 21, 2018 Prior Publication Data US 2019/0379531 A1 Dec. 12, 2019 Priory Examiner — Hares Jami (74) Attorney, Agent, or Firm — Masuvalley & Pat (57) ABSTRACT (30) Foreign Application Priority Data US 2019/0379531 A1 Dec. 12, 2019 The invention fatabase, in w alste compuries for approving transactions blockchain database and having access to said blockchain database and baving to storing al test part of the blockchain database and paring transactions in said blockchain database and paring to storing al test part of the blockchain database and paring to storing al test part of the blockchain database and paring to storing al test part of the blockchain database and paring to storing al test part of the blockchain database and paring to storing al test part of the blockchain database and paring to the blockchain database and paring to taffer priver kiying data based on the for commented of or registration and an application of these r to handle a selecited type of document. The invention ord for paristration and an application of these r codes tored on a computer program product comprises a computer program product comprising p code stored on a computer protegible			d States Patent der et al.	(10) Patent No.: US 10,944,548 B2 (45) Date of Patent: *Mar. 9, 2021			
 (71) Applicant: Coinfirm Blockchain Lab Sp. Za.o., Torun (PL) (72) Inventors: Pawel Zygmunt Aleksander, Kobylnik (PL): Pawel Kuskowski, Golub-Dobryny (PL): Jakub Fljølek, Bydgoszez (PL) (73) Assignee: CONFRIRM BLOCKCHAIN LAB SP. Z O.O., Torun (PL) (*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 229 days. (*) Notice: Subject to any disclaimer, the term of this patent is subject to a terminal dis- claimer. (21) Appl. No.: 16231,367 (22) Filed: Dec. 21, 2018 (55) Prior Publication Data US 2019/0379551 A1 Dec. 12, 2019 (56) References Cited US.C. 154(b) by 229 days. (22) Filed: Dec. 21, 2018 (55) Prior Publication Priority Data US 2019/0379551 A1 Dec. 12, 2019 (56) References Cited (2018/01/b) by 229 days. (2019/01/b) 229 days. (2019/01/b) 229 days. (2019/01/b) 229 days. (2019/01/b) 209 da	(54)	A BLOCK	CHAIN DATABASE AND A	(58) Field of Classification Search CPC G06F 16/2365; G06F 16/2379; G06F 9/4663; G06F 16/152; H04L 9/0643;			
 (72) Inventors: Pawel Zygmunt Aleksander, Kobylnik (PL); Pawel Kuskowski, Golub-Dobryn (PL); Jakub Fijolek, Bydgoszcz (PL) (73) Assignee: COINFIRM BLOCKCHAIN LAB SP. Z O.O., Torun (PL) (*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) 92 29 days. This patent is subject to a terminal dis- claimer. (21) Appl. No: 16/231,367 (22) Filed: Dec. 21, 2018 (5) Prior Publication Plotity Data US 2019/0379531 A1 Dec. 12, 2019 (5) Prior Publication Plotity Data US 2019/0379531 A1 Dec. 12, 2019 (5) Foreign Application Priority Data US 2019/0379531 A1 Dec. 12, 2019 (5) Foreign Application Plotity Data US 2019/0379531 A1 Dec. 12, 2019 (5) Foreign Application Plotity Data US 2019/0379531 A1 Dec. 12, 2019 (5) Foreign Application Plotity Data US 2019/0379531 (A1 Dec. 12, 2019 (5) Lat. C.I. (Continued) (2019.01); Gobf 16/237 (2019.01); Gobf 16/237 (2019.01); (Continued) (2019.01); Gobf 16/237 (2019.01); (Continued) (2019.01); Gobf 16/237 (2019.01); (Continued) (2019.01); Gobf 16/237 (2019.01); (Continued) (Continued) (Continued) (Continued) (Continued) 	(71)	Applicant:	Coinfirm Blockchain Lab Sp. Zo.o.,				
 (73) Assignee: COINFIRM BLOCKCHAIN LAB SP. Z O.O., Torun (PL) (*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) ys 229 days. This patent is subject to a terminal disclaimer. (21) Appl. No: 16/231,367 (22) Filed: Dec. 21, 2018 (5) Prior Publication Data US 2019/0379531 A1 Dec. 12, 2019 (30) Foreign Application Priority Data Jun. 7, 2018 (EP)	(72)	Inventors:	Pawel Zygmunt Aleksander, Kobylniki (PL); Pawel Kuskowski, Golub-Dobrzyn (PL); Jakub Fijolek,	10,417,188 B2* 9/2019 King			
patent is extended or adjusted under 35 U.S.C. 154(b) by 229 days. This patent is subject to a terminal dis- claimer. (21) Appl. No.: 16/231,367 (22) Filed: Dec. 21, 2018 (65) Prior Publication Data US 2019/0379551 A1 Dec. 12, 2019 (30) Foreign Application Priority Data US 2019/0379551 A1 Dec. 12, 2019 (30) Foreign Application Priority Data Jun. 7, 2018 (EP)	(73)	Assignee:					
(21) Appl. No.: 16/231,367 Primary Examiner — Hares Jami (22) Filed: Dec. 21, 2018 The invention comprises a method for registration of a blockchain database, in which database transactions onstructed of standard data containers which may lixed size, in a system comprises a method for registration and a blockchain database, and a first computer for age transactions is said blockchain database, and a first computer for age transactions is said blockchain database, and a first computer for age transactions is said blockchain database, and a first computer for age transactions is add blockchain database, and a first computer for age transactions is add blockchain database, and a first computer for age transactions is add blockchain database, and a first computer for age transactions to a first private key. The invention further comprises a computer program product comprising computer program product comprises a computer program product comprises a computer program product comprises a method for verifying data based on the aforeme method for registration and an application of these rit to handle a selected type of document. The invention computer program product comprises a computer program product comprises a method for verifying couputer instructions for performine methods. (2019.01); Continued) (Continued) 18 Claims, 1 Drawing Sheet	(*)	Notice:	patent is extended or adjusted under 35	Pasquale Forte et al., "Beyond Bitcoin—Part I: A critical look at blockchain-based systems", International Association for Cryptologic Research, vol. 20151202:213043, Dec. 1, 2015, pp. 1-34.			
 (21) Appl. No.: 16/231,367 (22) Filed: Dec. 21, 2018 (5) Prior Publication Data US 2019/0379531 A1 Dec. 12, 2019 (30) Foreign Application Priority Data Jun. 7, 2018 (EP)				Primary Examiner - Hares Jami			
 (22) Filed: Dec. 21, 2018 The investion comprises a method for registration of a blockchain database, in which database transactic constructed of standard data containers which may blockchain database, in which database and a first computer for gene Jun, 7, 2018 (EP)	(21)	Appl. No.:	16/231,367				
 (65) Prior Publication Data US 2019/0379531 A1 Dec. 12, 2019 (30) Foreign Application Priority Data Jun. 7, 2018 (EP)	(22)	Filed:	Dec. 21, 2018				
 30) Foreign Application Priority Data Jun. 7, 2018 (EP)	· · ·	Prior Publication Data US 2019/0379531 A1 Dec. 12, 2019		a blockchain database, in which database transactions are constructed of standard data containers which may have a fixed size, in a system comprising one or more storage node for storing at least part of the blockchain database, one o more approval nodes for approving transactions in sais			
Jun. 7, 2018 (EP)	(30)						
 [51] Int. CL. method for verifying data based on the aforeme data				transactions in said blockchain database, said computer having access to said blockchain database and having access			
 U.S. CL. CPC	(51)	H04L 9/00	23 (2019.01)	method for verifying data based on the aforementioned method for registration and an application of these methods to handle a selected type of document. The invention also			
τ, ,	(52)		Cl	code stored on a computer readable medium, said program code comprising computer instructions for performing these			
5		(Continued)		18 Claims, 1 Drawing Sheet			
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3 ABCDE

JP 7062838 B2 2022 5 6

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(51) Int. Cl. G06F G06Q	21/64 20/38		F I G 0 6 F G 0 6 Q	21/64 20/38	310		
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 (03)公表書号 (43)公表日 (86)国際出願書 (87)国際公開書 		令和3年9月16日(2 PCT/EP2019/05646 W02019/233646	021.9.16)		C O I N F L A B	2.24	

(30)(22)出旗口 十成31年3月14日(2013.3.14)	コインファーム フロッシュエーン フル
(65)公表番号 特表2021-524978(P2021-524978A) エスペー・ゾオ
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(87)国際公開番号 W02019/233646	ポーランド国 トルン 87-100 シ
(87)国際公開日 令和1年12月12日(2019.12.12)	ヨーザ チェルミンスカ 71
審査請求日 令和2年11月25日(2020.11.25)	(74)代理人 100163991
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(32)優先日 平成30年6月7日(2018.6.7)	(72)発明者 アレクサンダー,パヴェル ジグムント
(33)優先権主張国・地域又は機関	ポーランド国 コビルニキ 88-150
欧州特許庁(EP)	コビルニキ 32 エム5
(31)優先権主張番号 18195583.2	(72)発明者 クスコウスキー, パヴェル
(32)優先日 平成30年9月19日(2018.9.19)	ポーランド国 ゴルブードブジン 87-
(33)優先権主張国・地域又は機関	400 ドゥルヴェツカ 15
欧州特許庁(EP)	最終頁に続く

(54)【発明の名称】ブロックチェーンデータベースにデータをデジタルファイルとして登録する方法

(57)【特許請求の範囲】

【請求項1】

ブロックチェーンデータベースにデジタルドキュメントをデジタルファイルとして登録す る方法であって、データベーストランザクションは固定サイズを有し得る標準データコン テナで構成され、前記ブロックチェーンデータベースの少なくとも一部を格納するための 1つ又は複数の格納ノードと、前記ブロックチェーンデータベース内のトランザクション を承認するための1つ又は複数の承認ノードと、前記ブロックチェーンデータベース内の トランザクションを生成するための第1のコンピュータとを含んだシステムにおいて、前 記第1のコンピュータは前記ブロックチェーンデータベースへのアクセスを有し、且つ、 第1の秘密鍵へのアクセスを有しており、

a)前記デジタルファイルの内容に関する第1のデータセット(2)を提供する工程と; b)前記デジタルファイルの出所に関連する第2のデータセット(3)を提供する工程と

c) 第1のデータセット(2)、第2のデータセット(3)、<u>ヘ</u>ッダ(1)、及<u>びサ</u>フィ ックス(4)をデータフレームに統合することによって第3のデータセット(5)を生成 する工程であって、前記ヘッダ(1)は、前記第3のデータセットの構造に関する及び前 記第1のデータセットのサイズに関する情報を含んでいてもよく、一方、前記サフィック ス(4)のサイズは、前記データフレームのサイズが前記ブロックチェーンデータベース で使用される前記標準データコンテナのサイズの倍数になるように調整される工程と; d)前記第3のデータセット(5)を整数N≥1個の同一サイズの部分に分割する工程で

https://worldwide.espacenet.com/patent/search/family/065598536/publication/EP3579496B1?g=EP3579496B

AOMB is member o



Technologia blockchain ułatwi weryfikację dokumentów bankowych

2018.03.27

PKO Bank Polski oraz start-up Coinfirm podpisały umowę o współpracy. Jest to kolejny etap realizacji cyfrowej strategii banku. Platforma blockchain Trudatum została stworzona, by dostarczyć instytucjom finansowym nowe rozwiązania weryfikujące autentyczność danych. Dotychczasowe testy potwierdziły możliwości integracji tej technologii z istniejącą infrastrukturą banku w wielu ważnych obszarach biznesowych. Nad rozwojem technologii pracować będzie nowo powołane Centrum Kompetencyjne Blockchain PKO Banku Polskiego.

 PKO Bank Polski oraz start-up Coinfirm podpisały umowę o współpracy. Bank jako pierwsza polska instytucja finansowa rozpoczęła wdrożenie rozwiązań w technologii blockchain.

https://media.pkobp.pl/70784-technologia-blockchain-ulatwi-weryfikacje-dokumentow-bankowych

WDIOSE OPINIE TWÓJ PORTFEL GOSPODARKA FINANSE FIRMY TECHNOLOGIE NAJBOGATSI

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Wprost / Biznes / Finanse i inwestycje / Walut

PKO BP i Coinfirm tworzą historię finansów

Dodano: 21 lipca 2017 18:23



Reklamy Google Prześlij opintę Dlaczego ta reklama? ⊵

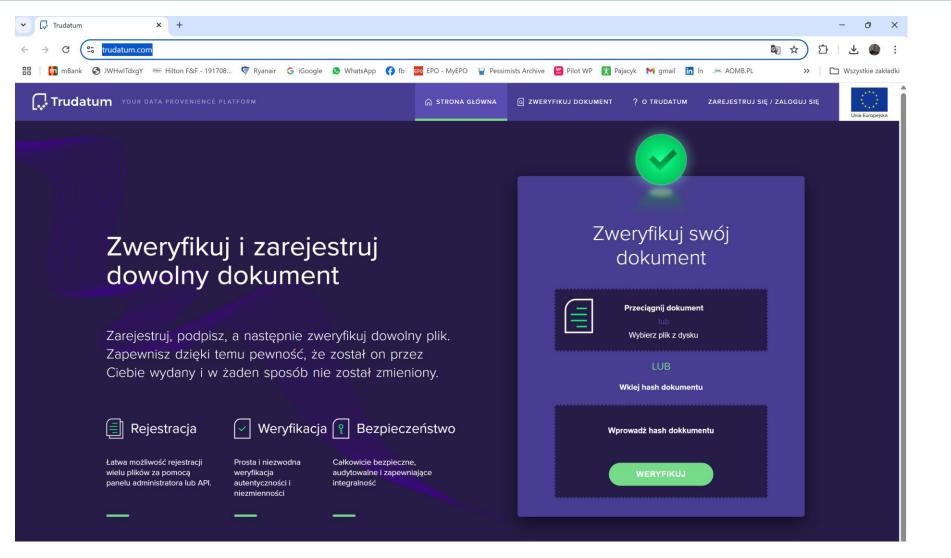
trudatum - pierwsze zastosowanie blockchain w polskim banku

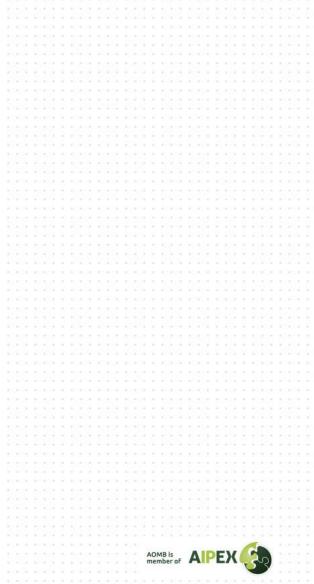
f Ba stv X tyr i w no

Bank właśnie rozpoczął testowanie trudatum, platformy stworzonej przez polsko-brytyjską firmę Coinfirm, tworząc tym samym nowy standard w bezpieczeństwie i weryfikacji dokumentów. To kolejny przełom w drodze nowej technologii do centrum świata finansów. PKO jest jedną z pierwszych instytucji finansowych na świecie,

https://biznes.wprost.pl/finanse-i-inwestycje/waluty/10066438/pko-bp-i-coinfirm-tworza-historie-finansow.html







https://www.trudatum.com/



Example 2 – Travel Rule

Example 2

How to provide secure transfer of data to an addressee, through a distrusted environment, with no reliable third-party? And in line with Finacial Action Task Force (FATF) rules regarding prevention of money laundering and financing of terrorism.

Answer: EP 3 799 352 A1 or US 11,405,188 B2

"A method for secure transferring of information through a network between an origin Virtual Asset Service Provider and a destination Virtual Asset Service Provider"

The addressee is able to cryptographically prove entitlement to the transferred data.



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.... Oa) Registering an asset owner, having an owner cryptocurrency private key and an owner cryptocurrency public key, with the destination VASP (VASP Z, RV),

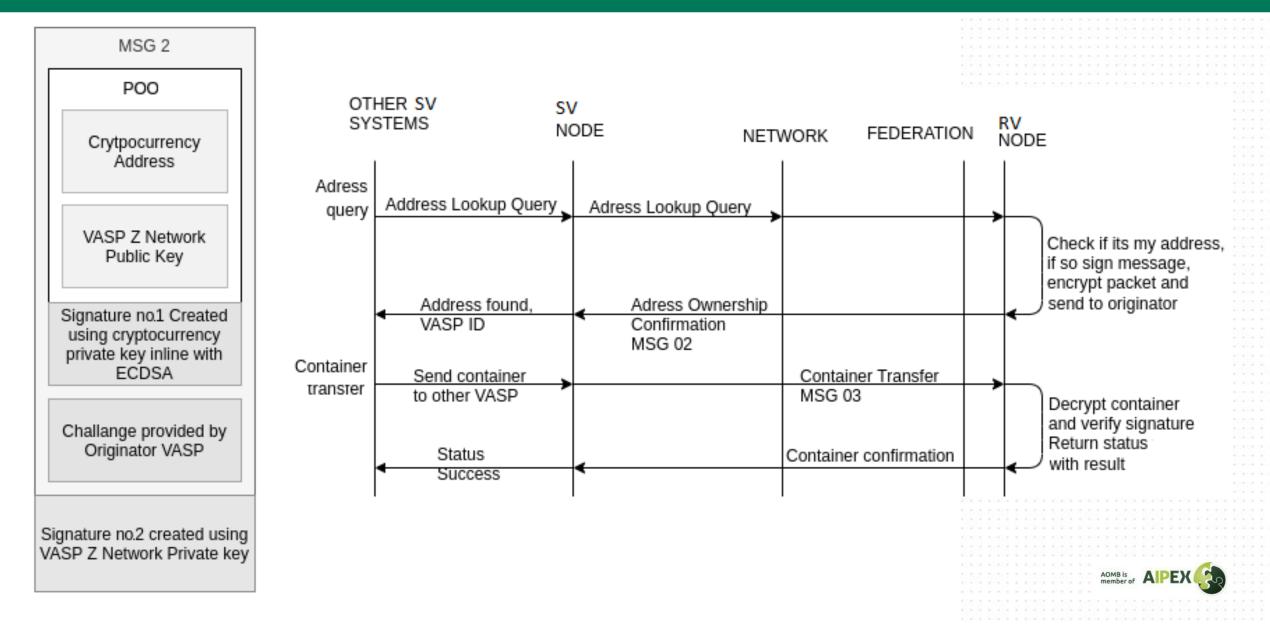
Ob) Creating an owner cryptocurrency address as a function of the owner cryptocurrency public key, preferably base58 hash160 with metadata and checksum, and depositing the owner cryptocurrency address in a database accessible to the destination VASP (VASP Z, RV),

Oc) Creating a proof of ownership (POO) comprising as the first contents: the owner cryptocurrency address and the destination VASP network public key and **comprising a first signature of said first contents generated as a function of the owner cryptocurrency private key**, preferably generated using the Elliptic Curve Digital Signature Algorithm, ECDSA,

Od) Storing the proof of ownership (POO) in a database accessible to the destination VASP (VASP Z, RV) ... followed by the sequence of querries and responses + challenge-response leading to determination of the proper addressee (receiver)....

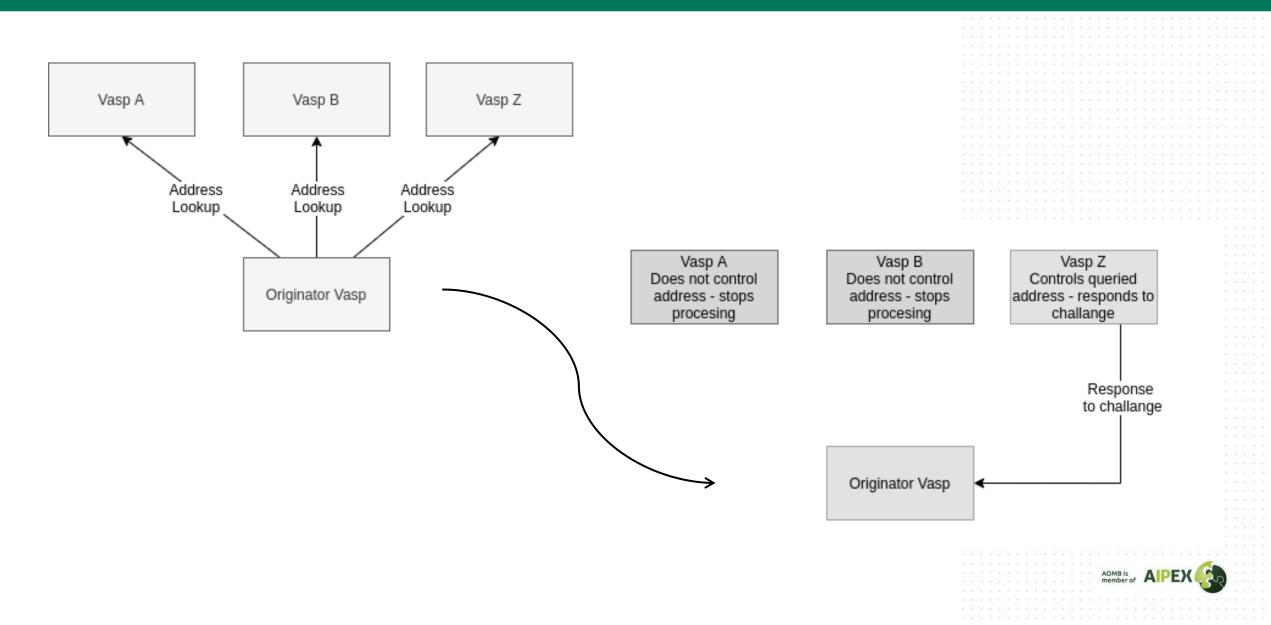


Example 2 – Travel Rule





Example 2 – Travel Rule





(12)

(43) Date of publication:

BA ME

(54)

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ASSET SERVICE PROVIDER

OTHER SV

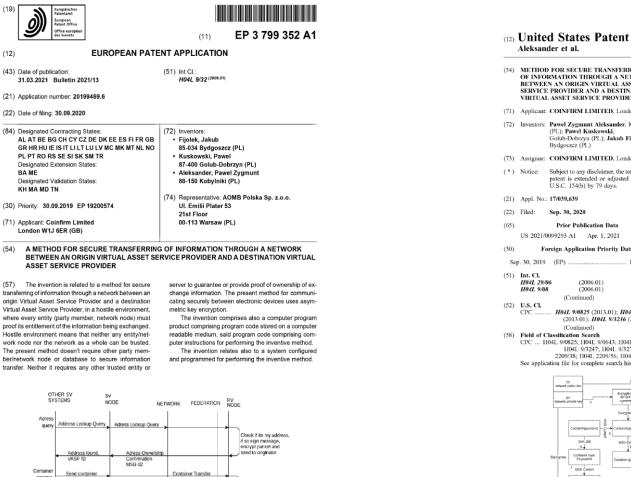
SYSTEMS

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Example 2 – Travel Rule



	405188B2
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	(45) Date of Patent: Aug. 2, 2022			
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mer, the term of this adjusted under 35 days.	Primary Examiner — Sher A Khan (74) Attorney, Agent, or Firm — Masuvalley and Partners; Peter R. Martinez			
	(57) ABSTRACT			
Data , 2021	The invention is related to a method for secure transferring of information through a network between an origin Virtual Asset Service Provider and a destination Virtual Asset Service Provider, in a hostile environment, where every			
iority Data	entity (party member, network node) must proof its entitle- ment of the information being exchanged. Hostile environ-			
19200574	ment means that neither any entity/instwork node nor the network as a whole can be trusted. The present method doesn't require other party member/network node or data- base to secure information transfer. Neither it requires any other trusted entity or server to guarantee or provide proof of ownership of exchange information. The present method for communicating securely between electronic devices uses			
3.01); H04L 9/0643	asymmetric key encryption.			
L 9/3236 (2013.01);	The invention comprises also a computer program product comprising program code stored on a non-transitory com- puter readable medium, said program code comprising com- puter instructions for performing the inventive method.			
9643; H04L 9/3236; H04L 9/3271; H04L 99/56; H04L 9/3239				
search history.	15 Claims, 5 Drawing Sheets			
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Ł Adress Ownership Address found VASP ID MSG 02 352 Containe Send container to other VASP Container Transfer MSG 03 transter Decrypt container and verify signature Return status 799 ntainer con with result Succes e Fig. 1 ۰ Ξ

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https://worldwide.espacenet.com/patent/search/family/068109128/publication/EP3799352A1?q=ep3799352

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