

Search query (2): [SP]: a method comprising: receiving, from a first party among a plurality of parties, a request for an operation related to an object verifying the requested operation based on a rule set agreed by the plurality of parties, the rule set defining one or more constraints on one or more operations related to the object and in response to verifying that requested operation is valid, causing the operation to be performed creating a record for the operation, the record being specific to the rule set and storing the record in a blockchain database that is accessible to the plurality of parties. the method of claim 1, further comprising setting the rule set for the plurality of parties by: receiving, from a second party among the plurality of parties, a request for setting the rule set broadcasting the rule set to the plurality of parties and in response to receiving confirmations on the rule set from at least one of the plurality of parties, enabling the rule set. the method of claim 2, wherein the enabling the rule set comprises: in response to receiving a confirmation on the rule set from a third party among the plurality of parties, creating a record for the confirmation, the record including a signature of the third party and storing the record for the confirmation in the blockchain database. the method of claim 1, further comprising: receiving, from a fourth party among the plurality of parties, a request for tracing the object in response to receiving the request for tracing the object, retrieving one or more records for operations related to the object from the blockchain database and providing the retrieved records to the fourth party. the method of claim 1, wherein the verifying the requested operation further comprises: in response to receiving the request for the operation, broadcasting a notification related to the operation to the plurality of parties. the method of claim 1, wherein the verifying the requested operation comprises: extracting, from the request, a reference to the rule set and addressing the rule set based on the reference for the verifying. the method of claim 1, wherein the rule set includes executable code, and wherein the verifying the requested operation comprises: verifying the requested operation by causing the code to be executed. the method of claim 1, wherein the record further includes at least one of the following: an event identification (id) specific to the rule set, a reference to the rule set, an id for the operation, a description of the operation, a signature of the first party, a public key for decrypting the signature of the first party, and a timestamp indicating a time point when the request is sent. the method of claim 1, further comprising: receiving an inquiry for a state of the operation, the state indicating whether the operation is performed successfully in response to the inquiry, determining the number of subsequent records appended to the record for the operation in the blockchain database and determining the state of the operation based on the number of subsequent records. a device comprising: a processing unit and a memory coupled to the processing unit and storing instructions for execution by the processing unit, the instructions, when executed by the processing unit, causing the device to perform acts comprising: receiving, from a first party among a plurality of parties, a request for an operation related to an object verifying the requested operation based on a rule set agreed by the plurality of parties, the rule set defining one or more constraints on one or more operations related to the object and in response to verifying that requested operation is valid, causing the operation to be performed creating a record for the operation, the record being specific to the rule set and storing the record in a blockchain database that is accessible to the plurality of parties. the device of claim 10, wherein the instructions, when executed by the processing unit, further cause the device to set the rule set for the plurality of parties by: receiving, from a second party among the plurality of parties, a request for setting the rule set broadcasting the rule set to the plurality of parties and in response to receiving confirmations on the rule set from at least one of the plurality of parties, enabling the rule set. the device of claim 11, wherein the enabling the rule set comprises: in response to receiving a confirmation on the rule set from a third party among the plurality of parties, creating a record for the confirmation, the record including a signature of the third party and storing the record for the confirmation in the blockchain database. the device of claim 10, the acts further comprising: receiving, from a fourth party among the plurality of parties, a request for tracing the object in response to receiving the request for tracing the object, retrieving one or more records for operations related to the object from the blockchain database and providing the retrieved records to the fourth party. the device of claim 10, wherein the verifying the requested operation further comprises: in response to receiving the request for the operation, broadcasting a notification related to the operation to the plurality of parties. the device of claim 10, wherein the verifying the requested operation comprises: extracting, from the request, a reference to the rule set and addressing the rule set based on the reference for the verifying. the device of claim 10, wherein the rule set includes executable code, and wherein the verifying the requested operation comprises: verifying the requested operation by causing the code to be executed. the device of claim 10, wherein the record further includes at least one of the following: an event id specific to the rule set, a reference to the rule set, an id for the operation, a description of the operation, a signature of the first party, a public key for decrypting the signature of the first party, and a timestamp indicating a time point when the request is sent. the device of claim 10, the acts further comprising: receiving an inquiry for a state of the operation, the state indicating whether the operation is performed successfully in response to the inquiry, determining the number of subsequent records appended to the record for the operation in the blockchain database and determining the state of the operation based on the number of subsequent records. a computer program product being tangibly stored on a non-transient machine-readable medium and comprising machine-executable instructions, the instructions, when executed on a device, causing the device to: receive, from a first party among a plurality of parties, a request for an operation related to an object verify the requested operation based on a rule set agreed by the plurality of parties, the rule set defining one or more constraints on one or more operations related to the object and in response to verifying that requested operation is valid, cause the operation to be performed create a record for the operation, the record being specific to the rule set and store the record in a blockchain database that is accessible to the plurality of parties. the computer program product of claim 19, wherein the instructions, when executed on the device, further causing the device to set the rule set for the plurality of parties by: receiving, from a second party among the plurality of parties, a request for setting the rule set broadcasting the rule set to the plurality of parties and in response to receiving confirmations on the rule set from at least one of the plurality of parties, enabling the rule set.

Results: 8

1) Family number: 63470110 (US2016259937A)

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Title: DEVICE REPORTING AND PROTECTION SYSTEMS AND METHODS USING A SECURE DISTRIBUTED TRANSACTIONAL LEDGER

Priority: US20150635577 20150302 US20150702321 20150501 US20150725347 20150529
US20150732504 20150605 US20150750822 20150625 US20150802847 20150717

Family:	Publication number	Publication date	Application number	Application date
	US2016259937 AA	20160908	US20150702321	20150501
	US2016260095 AA	20160908	US20150635577	20150302
	US2016260171 AA	20160908	US20150802847	20150717
	US2016261404 AA	20160908	US20150725347	20150529
	US2016261685 AA	20160908	US20150732504	20150605
	US2016261690 AA	20160908	US20150750822	20150625
	US9965628 BB	20180508	US20150702321	20150501
	US9967333 BB	20180508	US20150732504	20150605
	US9967334 BB	20180508	US20150750822	20150625
	US10484168 BB	20191119	US20150725347	20150529
	US10592985 BB	20200317	US20150802847	20150717

Probable Assignee: DELL INC

Assignee(s):(std): DELL PRODUCTS LP ; DELL INC

Assignee(s): DELL PRODUCTS L P ; DELL SOFTWARE INC ; WYSE TECHNOLOGY LLC ; SECUREWORKS INC ; STATSOFT INC ; BANK OF AMERICA NA ADMINISTRATIVE AGENT AS ; BANK OF AMERICA NA COLLATERAL AGENT AS ; BANK OF NEW YORK MELLON TRUST CO NA ; BANK OF NEW YORK MELLON TRUST CO NA NOTES COLLATERAL AGENT AS ; COMPELLENT TECHNOLOGIES INC ; CREDIT SUISSE CAYMAN ISLANDS BRANCH COLLATERAL AGENT AG AS

Inventor(s):(std): FORD DANIEL A ; CHEN YULING ; NARAYANAN RAJESH ; REYES IRWIN O

Agent(s): NORTH WEBER AND BAUGH LLP

International class (IPC) G06F21/55 G06F21/57 G06F21/64 G06F21/88 G06F9/445 G06Q20/06 G06Q20/10 G06Q20/22 G06Q20/38

8-9): G06Q20/40 G06Q20/42 G06Q40/04 H04L12/24 H04L29/06 H04L29/08 H04L9/00 H04L9/32 H04W12/08 (Advanced/Invention); H04W12/10 (Advanced/Non-invention)

CPC: G06F21/554 G06F21/577 G06Q20/401 G06Q40/04 G06Q20/223 G06Q20/42 G06Q2220/10 H04L63/10 H04L63/20 H04W12/08 H04L67/1044 H04L41/0813 G06F8/61 G06F9/445 H04L67/1046 H04L9/3242 H04L9/3247 H04L41/0806 H04L12/1854 H04L41/082 H04L41/28 H04L63/126 H04W12/10 G06F21/57 G06F21/88 G06F2221/2111 G06F2221/2143 H04L9/3236 H04L2209/38 H04L2209/56 H04L67/04 H04L67/20 H04L67/22 H04L69/22 G06Q20/10 G06Q20/389 G06Q20/0658 G06Q20/3823 H04W12/0023 G06Q2220/00 H04L9/3239 G06F21/64 H04L9/008 H04L67/104

US class: 1/1 705/64 705/75 709/204 713/150 726/22

[Classification Explorer](#)

Cited documents: US9965759 BB, US9800517 BA, US9514293 BA, US9406063 BB, US9397985 BA, US9298806 BA, US9256467 BA, US9135787 BA, US8886570 BA, US7379913 BB, US7293270 BA, US7130999 BB, US6591292 BA, US2017310653 AA, US2017295021 AA, US2017279800 AA, US2017243241 AA, US2017236123 AA, US2017170960 AA, US2017061398 AA, US2017005804 AA, US2016358184 AA, US2016358165 AA, US2016350749 AA, US2016344543 AA, US2016342994 AA, US2016342989 AA, US2016342978 AA, US2016342977 AA, US2016335628 AA, US2016330031 AA, US2016330027 AA, US2016321654 AA, US2016306966 AA, US2016300234 AA, US2016300227 AA, US2016292672 AA, US2016283920 AA, US2016275461 AA, US2016267472 AA, US2016261685 AA, US2016260169 AA, US2016260095 AA, US2016260069 AA, US2016254910 AA, US2016253622 AA, US2016218879 AA, US2016217436 AA, US2016164884 AA, US2016162882 AA, US2016140653 AA, US2016119119 AA, US2016086175 AA, US2016071108 AA, US2015379510 AA, US2015371224 AA, US2015363783 AA, US2015356555 AA, US2015356524 AA, US2015348017 AA, US2015310424 AA, US2015295712 AA, US2015287026 AA, US2015228004 AA, US2015142878 AA, US2015006739 AA, US2014372769 AA, US2014344015 AA, US2014279433 AA, US2014201057 AA, US2013329883 AA, US2013254532 AA, US2013097417 AA, US2013013916 AA, US2012163584 AA, US2011211692 AA, US2009150972 AA, US2009132419 AA, US2008320565 AA, US2008133531 AA, US2006100955 AA, US2006069647 AA, US2005004804 AA, US2002143819 AA, US2001049726 AA, US10043174 BA, US10043174 B1,

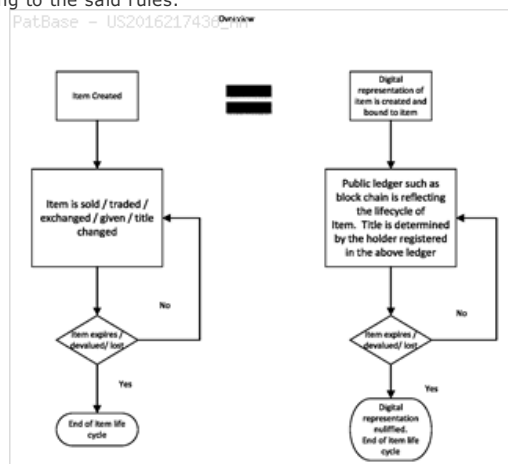
Forward Citations: WO20038367, WO20003287, WO20001371, WO19200215, WO19185709, WO19185558, WO19169048, WO19108436, WO19107565, WO19081816, WO19074584, WO19072308, WO19067357, WO19045738, WO19019072, WO19018282, WO18228952, WO18228951, WO18219533, WO18201798, WO18201147, WO18190809, WO18186391, WO18183148, WO18177662, WO18171949, WO18171543, WO18169204, WO18167253, WO18167252, WO18146373, WO18145201, WO18136944, WO18127923, WO18124297, WO18111295, WO18111160, WO18108685, WO18106353, WO18104277, WO18085558, WO18081668, WO18067232, WO18050280, WO18049656, WO18048640, US9935924, US9875510, US9871775, US9807067, US9749140, US9673973, US9667427, US2019166116, US2019163912, US2019097807, US2018352033, US2018330078, US2018324154, US2018293363, US2018176229, US2018174143, US2018174122, US2018174094, US2018145836, US2018076962, US2017243287, US2017201582, US2017111175, US2017048217, US2017046806, US2017026342, US2016330138, US2016306982, US2016292672, US10594689, US10594495, US10592985, US10581615, US10581592, US10574651, US10572688, US10567975, US10567390, US10567156, US10560268, US10558955, US10552829, US10552627, US10541886, US10540652, US10534913, US10528722, US10521861, US10521505, US10505920, US10505708, US10498808, US10496813, US10491378, US10484168, US10482236, US10475273, US10475272, US10469480, US10462223, US10452776, US10447770, US10447478, US10438197, US10437630, US10419446, US10411905, US10402796, US10387878, US10380812, US10367645, US10361870, US10361869, US10348487, US10341309, US10318747, US10304143, US10303887, US10289716, US10282741, US10282554, US10268829, US10268817, US10238288, US10225273, US10200474, US10192073, US10185550, US10171245, US10157078, US10142300, US10135607, US10129187, US10114969, US10110566, US10110520, US10097356, US10091228, US10057243, US10055926, US10046228, US10044688, US10022613, US10021080, TWI686709, JP6495346, JP6457165, JP6403177, JP2019103112, JP2018186391, JP2018112827, GB2549085, EP3606123, EP3582102, EP3565219, EP3547231, EP3479219, EP3379447, EP3355190, EP3346638, EP3343425, EP3343425, EP3340527, DE102017006572, DE102016118613, CN110121860, CN109218981, CN109218981, CN108616574, CN107463596, CN107426293, CN107426293, CN107360206, CN107342980, CN107196772, CN107079037, CN107040585, CN106850802, CN106789875, CN106789875, CN106682984, CN106682984, CN106549933, CN106549749, CN106549749, CN106452785, CN106452785,

Abstract:
Aspects of the present invention provide systems and methods that allow for a generic, decentralized system that is independent of a centralized resource and allows for the reporting and protecting of all types of smart devices including smart phones, laptop, tablets, or smart packages, and the like. In embodiments, the device comprises a security module or modules that interface with a decentralized network that maintains a secure distributed transactional ledger, or block chain, in order to send and/or receive data via the block chain. In embodiments, the device may not operate when its ability to access a communication channel provided via secure distributed transactional ledger has been impeded or otherwise hindered.

2) Family number: 62994144 (US2016217436A)					© PatBase
Title:	METHOD, SYSTEM AND PROGRAM PRODUCT FOR TRACKING AND SECURING TRANSACTIONS OF AUTHENTICATED ITEMS OVER BLOCK CHAIN SYSTEMS.				
Priority:	US20150107416P 20150125 US20160004956 20160124				
Family:	Publication number	Publication date	Application number	Application date	
	US2016217436 AA	20160728	US20160004956	20160124	
Probable Assignee:	BRAMA DROR SAMUEL				
Assignee(s):(std):	BRAMA DROR SAMUEL				
Inventor(s):(std):	BRAMA DROR SAMUEL				
International class (IPC 8-9):	G06Q20/06 G06Q20/10 G06Q20/38 G06Q20/40 (Advanced/Invention)				
CPC:	G06Q20/06 G06Q20/10 G06Q20/3827 G06Q50/00				
US class:	1/1 705/75				
	Classification Explorer				
Cited documents:	US2015356523 AA,				

Forward Citations: WO20029864, WO20006540, WO18213672, WO18045574, WO18028766, US9967334, US9967333, US9965628, US9876646, US9722790, US2018337770, US2018293363, US2018225660, US2018219685, US2016261690, US2016261685, US2016259937, US10592985, US10587609, US10581621, US10572688, US10552829, US10535063, US10509932, US10489597, US10484168, US10419225, US10411897, US10380560, US10373159, US10355869, US10341123, US10303887, US10298682, US10270599, US10171245, US10007913, US10007826, JP6389558, JP2019075755, CN107566337, CN107566337, CN107358440, CN106407430, CN106407430,

Abstract:
A method, system and program product comprise accessing a system having a digital currency infrastructure. At least three user addresses are created. Rules for filtering acceptable transactions on the system are prepared in form of recursion base and recursion steps. Items are initiated on the system according to the defined rules. The assets transaction data is transferred to the system wherein the system links asset data and the parties to the transaction according to the said rules.



3) Family number: 62348289 (CN105573828A)

PatBase

Title: OPERATION PROCESSING METHOD AND DEVICE

Priority: CN201510952311 20151217

Family:

Publication number	Publication date	Application number	Application date
CN105573828 A	20160511	CN201510952311	20151217
CN105573828 B	20190412	CN201510952311	20151217

Probable Assignee: BUBI BEIJING NETWORK TECH CO LTD

Assignee(s):(std): BUBI BEIJING NETWORK TECH CO LTD

Assignee(s): BUBI BEIJING NETWORK TECHNOLOGY CO ; BUBI BEIJING NETWORK TECHNOLOGY CO LTD

Inventor(s):(std): QIAO XIAORUI ; ZHAO ZHENGYONG ; JIANG HAI ; HU NAN ; ZHAI HAIBIN ; WANG JING

International class (IPC 8-9): G06F9/46 (Advanced/Invention)

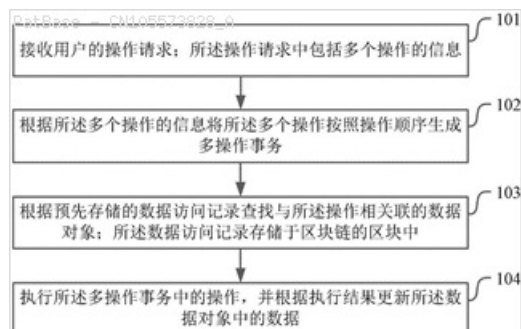
CPC: G06F9/466

[Classification Explorer](#)

Cited documents: US2015356524 AA, US2015332283 AA,

Forward Citations: WO18045574, CN109086388, CN108462885, CN107918612, CN107918612, CN107425981, CN107276754, CN107122675, CN107122675, CN107016277, CN106875518, CN106875518, CN106850654, CN106789875, CN106789875, CN106650478, CN106650478, CN106611061, CN106598490, CN106354994, CN106354994, CN106339875, CN106339875, CN106130738, CN105976231,

Abstract:
The invention provides an operation processing method and device. The method comprises steps as follows: a user operation request is received; the operation request comprises multiple operation messages; multiple operation services are generated from multiple operations in the operation sequence according to the multiple operation messages; data objects associated with the operations are looked up according to prestored data access records; the data access records are stored in blocks of a block chain; operations in the multiple operation services are executed, and data in the data object are updated according to an execution result. The request comprising multiple operations can also be received, the multiple operation services are generated in the operation sequence according to the operations and taken as one service for processing, multiple operations are processed simultaneously, the operation efficiency is improved, and the operation steps of a user are reduced.



4) Family number: 59581293 (CN104735164A)

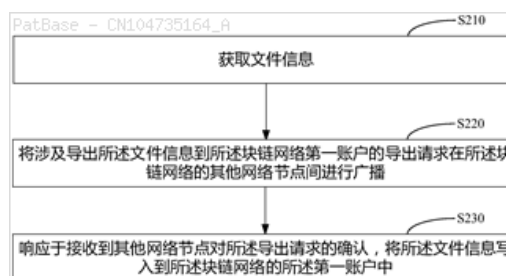
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Title: METHOD AND DEVICE FOR SAVING FILE INFORMATION**Priority:** CN201510169759 20150410

Family:	Publication number	Publication date	Application number	Application date
	CN104735164 A	20150624	CN201510169759	20150410
	CN104735164 B	20180518	CN201510169759	20150410

Probable Assignee: NETEASE HANGZHOU NETWORK CO LTD**Assignee(s):(std):** NETEASE HANGZHOU NETWORK CO LTD**Assignee(s):** NETEASE HANGZHOU NETWORK LTD ; NETEASE HANGZHOU NETWORK CO**Inventor(s):(std):** LI YANG ; HU JIABAO ; LUO SHANGHU**International class (IPC 8-9):** H04L29/06 H04L29/08 (Advanced/Invention)**CPC:** H04L67/104 H04L67/306[Classification Explorer](#)**Cited documents:** WO14110519 A1, CN104580253 A, CN104320262 B, CN103927659 A,**Forward Citations:** WO18045574, WO17107976, WO16177026, JP6608256, JP6601828, JP2018525952, JP2017098806, CN107992621, CN107294963, CN107294963, CN107145605, CN106776820, CN106713495, CN106713495, CN106656784, CN106656784, CN106650494, CN106650494, CN106506493, CN106130728, CN105976231, CN105912283, CN105827410, CN105719172, CN105678546, CN105678545, CN105608588, CN105487816, CN105487816, CN105430767,**Abstract:**

The embodiment of the invention provides a method for saving file information. The method comprises the steps that file information is obtained, an exporting request for exporting file information to a first account of a block chain network is broadcast among other network nodes in the block chain network, and by responding to the received confirmation, given by the other network nodes, of the exporting request, the file information is written into the first account in the block chain network. By writing the file information into the block chain network, it is guaranteed that the unique validity of the file information is guaranteed, and the demands for searching for files, verifying the files and the like of the public can be met; besides, because the block chain network is a decentralized peer-to-peer network based on the P2P technology and is free of control by a third-party mechanism, a user can conduct self-management, the problem that due to termination of the third-party mechanism, the file information cannot be used is avoided, the user benefits are guaranteed, and better user experience is provided. In addition, the embodiment of the invention further provides a device for saving the file information.

**5) Family number: 63329350** (CN105893042A)

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Title: INTELLIGENT CONTRACT IMPLEMENTATION METHOD BASED ON BLOCK CHAIN**Priority:** CN201610195644 20160331

Family:	Publication number	Publication date	Application number	Application date
	CN105893042 A	20160824	CN201610195644	20160331

Probable Assignee: UNIV BEIHANG**Assignee(s):(std):** BEIHANG UNIV ; UNIV BEIHANG**Inventor(s):(std):** CAI WEIDE ; CHEN ZHIDONG ; HU KAI ; HUANG JIEHUA ; BAI XIAOMIN**International class (IPC 8-9):** G06F9/44 G06Q50/18 (Advanced/Invention)**CPC:** G06F9/44 G06Q50/18[Classification Explorer](#)**Cited documents:** US2016028552 AA, US2015379510 AA, US2015067143 AA,**Forward Citations:** WO20001103, WO19036831, WO18045574, TWI659377, JP6646764, JP2019522264, CN110020855, CN108306873, CN107784474, CN107783758, CN107783758, CN107392619, CN107392610, CN107330701, CN107292622, CN107248074, CN107171794, CN107171794, CN107145521, CN107103098, CN107103054, CN107103054, CN107066561, CN107040383, CN107040383, CN106980649, CN106960165, CN106951307, CN106919419, CN106843774, CN106815764, CN106778882, CN106778882, CN106778329, CN106778109, CN106709704, CN106598549, CN106598549, CN106533696, CN106533696, CN106453407, CN106453407, CN106408299, CN106407430, CN106407430,**Abstract:**

The invention provides an intelligent contract implementation method. The intelligent contract implementation method includes the steps that an intelligent contract is established, the contract C is a triad group, $C = (I, M<ss>, \{M1, M2, \dots, Mm\})$, the contract comprises contract party information I and a set of contract state machines Mss and contract state execution machines $\{M1, M2, \dots,$

Mm}, wherein Ii represents information of the i contract party Pi, i=1...m, and m contract parties participate in the contract; states and events of all contract parties are input and stored in a database which is high in safety; the intelligent contract is executed, and the execution result of the contract is obtained. The invention further provides an intelligent contract system based on a block chain, and the system comprises a user interface, an intelligent contract device and a block chain management module.



6) Family number: 62191444 (US2019253431A)

PatBase

Title:

Priority:

Family:

Probable Assignee:

Assignee(s):(std):

Inventor(s):(std):

Agent(s):

Designated states:

International class (IPC 8-9):

CPC:

Classification Explorer

Cited documents:

Forward Citations:

INTELLIGENT PERSONAL INFORMATION MANAGEMENT SYSTEM

US20140067673P 20141023US20150774249 20151105WO2015GB53360 20151105

Publication number

Publication date

Application number

Application date

CA3003084 AA

20180423

CA20153003084

20151105

US2019253431 AA

20190815

US20150774249

20151105

WO16063092 A1

20160428

WO2015GB53360

20151105

ATANDA DELE

ATANDA DELE

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MLT AIKINS LLP; IP21 LTD

AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

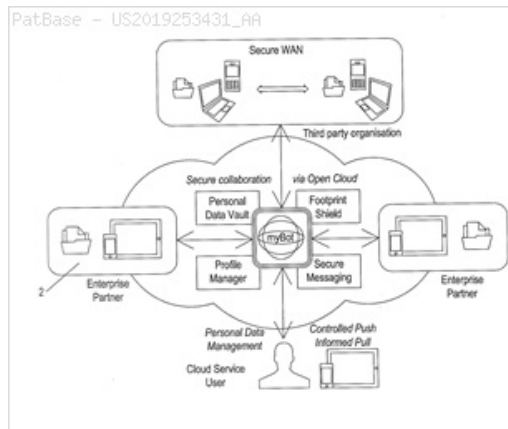
G06F21/62 G06Q30/02 H04L29/06 (Advanced/Invention)

G06F21/6218 H04L63/105 G06Q30/0201 H04L63/08 G06F21/62

WO05045705 A1, US8595857 BB, US8271894 BA, US2014282852 AA, US2014172917 AA, US2014143886 AA, US2013298187 AA, US2013185412 AA,

WO20001743, WO18209222, WO18142272, WO18136944, US9928290, US2017054611, US10509806, ES2703457, EP3479219, EP3447671, DE102016207469,

Abstract:
The invention comprises a personal data sharing system comprising an aggregator for aggregating data from a plurality of disparate sources and for categorising said aggregated data into discrete groups of data, a platform configured to enable the assignment of an access permission level for each one of said discrete groups of data by allowing the user to configure said access permission level or by automatically assigning said access permission level from a number of pre-determined access permission levels; said platform being further configured to permit access to a discrete group of data dependent upon said access permission level. The invention also comprises a method of sharing personal data comprising the steps of aggregating data from a plurality of disparate sources and categorising said aggregated data into discrete groups of data, assigning an access permission level for each one of said discrete groups of data by allowing the user to configure said access permission level or by automatically assigning said access permission level from a number of pre-determined access permission levels; and permitting access to a discrete group of data dependent upon said access permission level.



7) Family number: 68885922 (WO18045574A1)

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Title: TRACING OBJECTS ACROSS DIFFERENT PARTIES

Priority: WO2016CN098610 20160909

Family:	Publication number	Publication date	Application number	Application date
	AU2016422515 AA	20190221	AU20160422515	20160909
	BR112019002548 A2	20190521	BR20191102548	20160909
	CA3033144 AA	20190206	CA20163033144	20160909
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	CO20190001989 A2	20190308	CO20190001989	20190228
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	SG11201901403V A1	20190328	SG20191101403	20160909
	WO18045574 A1	20180315	WO2016CN098610	20160909

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Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KW KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class (IPC 8-9): G06F21/60 G06F21/62 G06F21/64 G06F9/44 G06Q10/08 H04L H04L9/32 (Advanced/Invention)

International class (IPC 1-7): G06F9/44

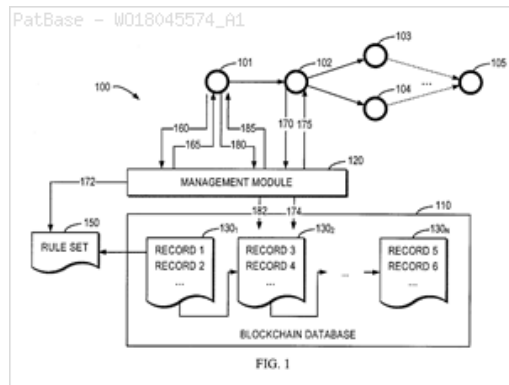
CPC: G06F21/6218 G06F21/64 G06Q10/0833 G06Q2220/00 H04L9/3247 H04L2209/38 H04L9/3239 G06F21/604

[Classification Explorer](#)

Cited documents: WO16063092 A1, US9300678 BA, US2016259937 AA, US2016217436 AA, CN105893042 A, CN105573828 A, CN104735164 A,

Abstract:

In implementations of the subject matter described herein, a new approach for controlling and tracing an object across a plurality of parties is proposed. A rule set may be enabled by the confirmation of a plurality of parties. The rule set may define constraints on operations related to the object. Upon receipt of a request for an operation related to the object, the requested operation may be verified based on the rule set agreed by the plurality of parties. In response to verifying that requested operation is valid, the requested operation may be performed, and a record for the operation may be created and stored in a blockchain database accessible to the plurality of parties.



8) Family number: 61948933 (US2017041306A)

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Title: SYSTEMS AND METHODS FOR AUTHENTICATING PHOTOGRAPHIC IMAGE DATA

Priority: US20150816712 20150803 US20150942729 20151116 US20160065781 20160309
EP20160833714 20160802 WO2016US45089 20160802 US20180114428 20180828

Family:	Publication number	Publication date	Application number	Application date
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	CN108141366 A	20180608	CN201680057888	20160802
	DE602016026171 D1	20200102	DE201660026171T	20160802
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	US2017041328 AA	20170209	US20150942729	20151116
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	US10095877 BB	20181009	US20160065781	20160309
	WO17023896 A1	20170209	WO2016US45089	20160802

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Agent(s): SMART AND BIGGAR; SAMSON AND PARTNER PATENTANWAELTE MBB; POTTER JULIAN MARK; LETTERS AND THOO LTD; SHEPPARD MULLIN RICHTER AND HAMPTON LLP; KOO HEAN L ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class (IPC 8-9): G06F21/62 G06F21/64 H04L H04L29/06 H04L29/08 H04L9/32 H04W12/06 H04W12/10 (Advanced/Invention)

CPC: H04W12/00504 G06F21/645 H04L63/123 H04L67/2804 H04L2463/121 G06F21/6218 H04L63/08 H04L63/102 H04W12/1004 H04W12/06

US class: 1/1 726/26 726/6

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Forward Citations: WO19204314, WO18154415, WO18115992, US9621565, US9582843, US2017140492, US2014049653, US10439821, US10380734, US10375050, US10361866, US10360668, US10331884, US10305977, US10095877, US10019773, EP3479219, EP3332505, CN106339880,

Abstract:

The present disclosure provides systems and methods for authenticating photographic data. In one embodiment, a method comprises providing an image authentication application for use on a client device, the application configured to control image capture and transmission; receiving an image data file from the application at the authentication server comprising a photographic image captured by the application and metadata associated therewith; applying a watermark to the photographic image to create a watermarked

image; applying date and time information to the tagged image; applying location information to the tagged image; creating a web address associated with the image data file; uploading the photographic image, the tagged image, or both to the web address; and transmitting an authenticated image file to the client device, the authenticated image file comprising one or more of: the watermarked image, the photographic image, the date and time information, geographic information, and the web address.

