

BLOCKCHAIN STRUCTURE FOR AN INTELLECTUAL PROPERTY EXCHANGE INCLUDING A POINTER TO AN ORACLE AND USER INTERFACE THEREFOR

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CROSS-REFERENCE TO RELATED APPLICATIONS

The present application claims the benefit of co-pending U.S. Provisional
10 Patent Application No. 62/681,364, entitled "BLOCKCHAIN STRUCTURE FOR
AN INTELLECTUAL PROPERTY EXCHANGE INCLUDING A POINTER TO AN
ORACLE AND USER INTERFACE THEREFOR," filed June 6, 2018 (docket
number 3056-023-02). U.S. Provisional Patent Application No. 62/681,364 is, to
the extent not inconsistent with the disclosure herein, incorporated by reference.

15 The present application is related to the PCT International Patent
Application entitled "METHOD AND SYSTEM FOR DATA STORAGE AND
RETRIEVAL" (docket number 3063-002-04), filed the same day as the present
application, which also claims priority benefit of co-pending U.S. Provisional
Patent Application No. 62/681,364, entitled "BLOCKCHAIN STRUCTURE FOR
20 AN INTELLECTUAL PROPERTY EXCHANGE INCLUDING A POINTER TO AN
ORACLE AND USER INTERFACE THEREFOR," filed June 6, 2018 (docket
number 3056-023-02).

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SUMMARY

According to an embodiment, a computer method for presenting remotely
stored information about a transaction related to a blockchain-tracked topic may
include a computer method for presenting official information about a proprietary

rights asset. According to an embodiment, the computer method for presenting official information about the proprietary rights asset includes presenting summary information about the proprietary rights asset via a user interface on an electronic display and receiving a graphical command from a user via the user
5 interface to obtain detailed information about the proprietary asset. The computer method includes accessing and decrypting data in a computer memory corresponding to the proprietary rights asset and reading corresponding data from a remote information address, such as an Internet address, from the decrypted data. Accessing and decrypting data in a computer memory may
10 include accessing a block chain transaction using a public or private key. The Internet address may be hosted by a government patent and/or trademark office. The computer method includes displaying information from the Internet address to the user on the electronic display.

According to an embodiment, a computing system includes one or more
15 processors and at least one computer readable memory having instructions therein, which, when executed by the one or more processors, perform a process including presenting summary information about a proprietary rights asset to a user via a user interface of a proprietary rights assets exchange system. The process includes receiving, from the user via the user interface, a command to
20 obtain detailed information about the proprietary rights asset. The process includes reading, from one or more blockchains, data corresponding to an Internet address associated with the proprietary rights asset. The process includes displaying, to the user, additional information associated with the proprietary rights asset from the Internet address.

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BRIEF DESCRIPTION OF THE DRAWINGS

FIG. 1 is a block diagram of production environment including proprietary
30 rights assets exchange system, according to an embodiment.

FIG. 2 is an illustration of a user interface of a proprietary rights assets exchange system, according to an embodiment.

FIG. 3 is a flow chart showing a computer method for presenting official information about an intellectual property asset, according to an embodiment.

5 **FIG. 4** is a flow chart showing a computer method for presenting information about an intellectual property asset, according to an embodiment.

DETAILED DESCRIPTION

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In the following detailed description, reference is made to the accompanying drawings, which form a part hereof. In the drawings, similar symbols typically identify similar components, unless context dictates otherwise. Other embodiments may be used and/or other changes may be made without
15 departing from the spirit or scope of the disclosure.

FIG. 1 illustrates a block diagram of a production environment 100 for facilitating the exchange of proprietary rights assets, according to one embodiment. Embodiments of the present disclosure provide a proprietary rights
20 assets exchange system. The proprietary rights assets exchange system enables users to buy and sell interest in proprietary rights assets utilizing blockchain technology. The proprietary rights assets exchange system provides a user interface that the users can interact with to view information about and obtain interest in the proprietary rights assets listed on the proprietary rights
25 assets exchange system.

In one embodiment, the user can view summary information about the proprietary rights asset listed on the proprietary rights assets exchange system. If the user wishes to view further details about the proprietary rights asset, the user can select to view detailed information about the proprietary rights asset.
30 The proprietary rights assets exchange system accesses one or more blockchains that include an encrypted address associated with the proprietary

rights asset. The proprietary rights assets exchange system decrypts the address and accesses further details regarding the proprietary rights asset from a location indicated by the decrypted address. The proprietary rights assets exchange system displays the additional details about the proprietary rights asset
5 to the user.

In one embodiment, a proprietary rights assets exchange system 102 is implemented in the production environment 100. The proprietary rights assets exchange system 102 enables users to exchange proprietary rights assets. The proprietary rights assets exchange system 102 records transactions
10 corresponding to the exchanges of proprietary rights assets in one or more blockchains to ensure the security and efficiency of the transactions.

In one embodiment, the production environment 100 includes the proprietary rights assets exchange system 102, user computing environments 104, one or more blockchain systems 106, and proprietary rights assets
15 information databases 108. The proprietary rights assets exchange system 102, the user computing environments 104, the blockchain systems 106, and the proprietary rights assets information databases 108 are connected by one or more networks 101. The networks 101 can include one or more of the Internet, satellite communication networks, cellular communication networks, wireless
20 area networks, local area networks, or other types of networks that can enable computing systems to communicate with each other.

In one embodiment, the user computing environments 104 correspond to computing environments by which the users of the proprietary rights assets exchange system 102 access the proprietary rights assets exchange system
25 102. The user of the proprietary rights assets exchange system 102 can utilize one or more of a laptop computer, a tablet, a desktop computer, a smartphone, a wearable smart device, a personal electronic assistant, or other types of computing devices that can communicate with the proprietary rights assets exchange system 102. Accordingly, the user computing environments 104 can
30 include any computing devices or computing systems by which individuals or organizations access the proprietary rights assets exchange system 102.

In one embodiment, the user of the proprietary rights assets exchange system 102 can include an individual, multiple individuals, or an organization. A single individual can create an account with the proprietary rights assets exchange system 102 in order to list the proprietary rights assets for others to obtain an interest in, and/or to view the proprietary rights assets listed by other users. The user can include a group of individuals that have an account by which they can enable others to obtain an interest in their proprietary rights assets and by which they can obtain an interest in the proprietary rights assets of others that have listed their proprietary rights assets on the proprietary rights assets exchange system 102. The user can also include an organization that has an account with the proprietary rights assets exchange system 102 by which the organization can enable others to obtain an interest in its proprietary rights assets and by which the organization can attain interest in the proprietary rights assets of others that have listed their proprietary rights assets on the proprietary rights assets exchange system 102.

In one embodiment, the proprietary rights assets exchange system 102 utilizes an interface module 116 to enable communication with the users of the proprietary rights assets exchange system 102. The users may access the proprietary rights assets exchange system 102 via the user computing environments 104. The interface module 116 can provide one or more graphical user interface(s) to the user. The graphical user interface can enable the user to navigate through menus, options, and services provided by the proprietary rights assets exchange system 102. The graphical user interface can be displayed on a display of an electronic device of the user.

In one embodiment, the proprietary rights assets exchange system 102 uses a user account service 110 to establish and maintain user accounts with the proprietary rights assets exchange system 102. When the individual or the organization wishes to establish an account with the proprietary rights assets exchange system 102, the user first accesses the proprietary rights assets exchange system 102 via a computing device of the user. The interface module 116 provides an interface that enables the user to either log in to the proprietary

rights assets exchange system 102, or to create an account with the proprietary rights assets exchange system 102. The user can select to create an account with the proprietary rights assets exchange system 102. When the user selects to create an account with the proprietary rights assets exchange system 102, the interface module 116 can guide the user through the process of creating an account by requesting personal information from the user, or by prompting the user to select a username and a password.

In one embodiment, the user account service 110 receives registration information of the user from the interface module 116. The user account service 110 establishes the user's account with the proprietary rights assets exchange system 102. When the user account service 110 has established the account of the user, the user can then utilize the services of the proprietary rights assets exchange system 102.

In one embodiment, the user account service 110 includes a database of all user accounts. The database can include, for each user, login credentials, personal information, payment information, contact information, or other types of data that may be associated with the account of the user of the proprietary rights assets exchange system 102.

In one embodiment, the user account service 110 may link one or more payments accounts of the user to the proprietary rights assets exchange system 102. For example, the user account service 110 may link one or more cryptocurrency wallets of the user to the user's account with the proprietary rights assets exchange system 102. The proprietary rights assets exchange system 102 can then prompt the user to utilize one of the linked cryptocurrency wallets when making a transaction to obtain an interest in the proprietary rights asset.

In one embodiment, the proprietary rights assets exchange system 102 enables users to list proprietary rights assets for exchange on the proprietary rights assets exchange system 102. When the user wishes to list the proprietary rights asset on the proprietary rights assets exchange system 102, the user can upload summary information of the proprietary rights asset. Information about the proprietary rights asset is recorded in one or more blockchains associated

with the blockchain systems 106. The information recorded in the one or more blockchains can include data related to ownership of the proprietary rights asset, and an address (or address label which obfuscates or otherwise makes it substantially impossible to determine the actual address from reading the
5 blockchain data), such as an Internet address, corresponding to a storage location from which further details regarding the proprietary rights asset can be accessed.

In one embodiment, a proprietary rights assets listings database 114 includes listings of various proprietary rights assets available for exchange on the
10 proprietary rights assets exchange system 102. The users can utilize the graphical user interface provided by the interface module 116 to view information from the proprietary rights assets listings database 114. In this way, the users can see which proprietary rights assets are listed for exchange.

In one embodiment, the user can select a proprietary rights asset from the
15 proprietary rights assets listings database 114. When the user selects the proprietary rights asset, the graphical user interface provides summary information about the proprietary rights asset. The summary information can include data that summarizes the proprietary rights asset.

In one embodiment, if the user wishes to obtain more complete details
20 regarding the proprietary rights asset, the user can select to view additional details regarding the proprietary rights asset via the graphical user interface. When the user selects to view more complete details regarding the proprietary rights asset, the proprietary rights assets exchange system 102 reads, from the one or more blockchains supported by the blockchain systems 106, an address
25 associated with the proprietary rights asset. The address can include an Internet address. When the proprietary rights assets exchange system 102 has read the address associated with the proprietary rights asset, the proprietary rights assets exchange system 102 accesses the more complete details from the storage location and displays the more complete details to the user.

30 In an embodiment where it is desired to obscure an actual storage location or address where the more complete details are stored, the blockchain may

include an address label. During a read operation, the information retrieval module 118 may decode the address label to determine the storage location address.

In one embodiment, the more complete details regarding the proprietary rights asset are stored in association with the proprietary rights assets information databases 108. The address corresponds to a storage location or web address hosted by the proprietary rights assets information databases 108. The proprietary rights assets exchange system 102 accesses the more complete details from the proprietary rights assets information databases 108 and provides them to the user. The proprietary rights assets information databases 108 can include websites associated with government proprietary rights assets offices, such as government patent and/or trademark offices.

In one embodiment, a proprietary rights asset includes an intellectual property asset. The intellectual property asset can include a patent asset. In one embodiment, the patent asset can include an issued patent. In one embodiment, the patent asset can include a published patent application. In one embodiment, the patent asset can include a patent application. In one embodiment, the patent asset can include a provisional patent application. In one embodiment, the patent asset can include a description of an invention for which a patent application has not yet been filed. Additionally or alternatively, the proprietary rights asset can include a trademark or copyright asset.

In one embodiment, the proprietary rights assets information databases 108 include government intellectual property databases where official information regarding intellectual property assets, including patent and trademark information, are stored. The government intellectual property databases can include government patent and trademark websites that provide access to complete information regarding patent and trademark assets. The government patent and trademark websites can enable users to view full versions of issued patents, patent applications, and published patent applications.

In one example, in accordance with one embodiment, a user of the proprietary rights assets exchange system 102 views summary information

regarding a patent asset listed on the proprietary rights assets exchange system 102. The user selects, via the graphical user interface, to view further details about the patent asset. The proprietary rights assets exchange system 102 receives the user selection and accesses one or more blockchains associated with the patent asset and reads an address. The address includes an Internet address associated with a government patent office website. In particular, the Internet address is an address associated with that particular issued patent. The proprietary rights assets exchange system 102 accesses the patent asset and displays the patent asset to the user.

In one embodiment, the proprietary rights assets exchange system 102 can display the patent asset to the user in the graphical user interface. Additionally or alternatively, the proprietary rights assets exchange system 102 can display the patent asset in a new window or tab of a web browser.

In one embodiment, the proprietary rights assets exchange system 102 utilizes an information retrieval module 118 to retrieve the information regarding the proprietary rights assets. When the user views summary information regarding the proprietary rights asset and selects to view full details or more complete information regarding the proprietary rights asset, the information retrieval module 118 accesses the blockchain systems 106 and reads, from the one or more blockchains, the address associated with the proprietary rights asset. The information retrieval module 118 then retrieves the detailed information by accessing the address. The proprietary rights assets exchange system 102 then displays the more complete information to the user. The information retrieval module may further include masking logic configured to mask information from which a viewer could deduce an actual information storage location address. Because proprietary rights documents use a limited number of formats, such masking logic may be coded to check the format, and then apply masking such as redactions at locations corresponding to the particular format. For example, masking can be used to display salient facts related to an anonymized patent application.

In one embodiment, the user can access the proprietary rights assets exchange system 102 via a dedicated software application stored on and executed, at least in part, by the computing device of the user. The software application presents the user interface to the user on the display of the electronic device of the user. The software application can present the summary information and the additional information in the user interface. Some modules, services, or systems of the proprietary rights assets exchange system 102 may be stored on and executed by the user computing device.

In one embodiment, the user can access the proprietary rights assets exchange system 102 via a web browser. In this case, the proprietary rights assets exchange system 102 provides the user interface in the web browser. The user can access the proprietary rights assets exchange system 102 by navigating to a web address associated with the proprietary rights assets exchange system 102 and logging into the proprietary rights assets exchange system 102. The proprietary rights assets exchange system 102 can present the summary information and the additional detailed information via a user interface momentum with a website of the proprietary rights assets exchange system 102. In one embodiment, the proprietary rights assets exchange system 102 can present the additional information to the user by opening an additional window or tab of the web browser.

In one embodiment, the proprietary rights assets exchange system 102 utilizes a transaction moderation module 112 to execute transactions for exchanging tokens issued by the proprietary rights assets exchange system 102. For example, if a first user has listed a proprietary rights asset for exchange, a second user can view the proprietary rights asset and can elect to obtain tokens representing an interest in the proprietary rights asset. The second user can exchange a selected amount of a cryptocurrency or proprietary rights assets exchange system 102 tokens for a corresponding number of the tokens representing the proprietary rights asset, in accordance with an exchange rate. The transaction moderation module 112 executes the transaction. When the transaction moderation module 112 executes the transaction, the cryptocurrency

is transferred to a wallet of the first user and the tokens representing the proprietary rights asset are transferred to a wallet of the second user.

In one embodiment, one transaction moderation module 112 executes the transaction, while the proprietary rights assets exchange system 102
5 communicates with the one or more blockchain systems 106. The transactions are recorded in one or more blockchains.

In one embodiment, obtaining an interest in a listed proprietary rights asset can include obtaining full or partial ownership of the listed proprietary rights asset. In another embodiment, in which a proprietary rights asset is a patent
10 asset, obtaining an interest in a listed proprietary rights asset can include obtaining a license to practice the claimed subject matter of the listed patent asset. Additionally or alternatively, obtaining an interest in the listed patent asset can include obtaining ownership of any patents that issue from the listed patent asset, when the listed patent asset includes a patent application that has not
15 issued or when the listed patent asset includes a description of the invention for which a patent application has not yet been filed.

FIG. 2 is an illustration of a screen of a graphical user interface 202 presented on a computing device of a user of a proprietary rights assets exchange system 102, according to one embodiment. In the example of **FIG. 2**,
20 the graphical user interface 202 includes a summary information display field 204, a view asset button 206, a detailed information display field 208, and an obtain interest button 210. Those of skill in the art will recognize, in light of the present disclosure, that a graphical user interface in accordance with principles of the present disclosure can include differing types and arrangements of objects, selection fields, display fields than those shown in the graphical user interface
25 202 of **FIG. 2**.

In one embodiment, the summary information display field 204 displays summary information regarding a proprietary rights asset. The user can click on or otherwise select the view asset button 206 in order to view additional, more
30 complete information regarding the proprietary rights asset. When the user selects the view asset button 206, the proprietary rights assets exchange system

102 reads, from one or more blockchains, an address associated with the proprietary rights asset. The proprietary rights assets exchange system 102 then retrieves the more complete details regarding the proprietary rights asset from the address. The proprietary rights assets exchange system 102 displays the
5 more complete details in the detailed information display field 208.

In one embodiment, the user can select to view the detailed information regarding the proprietary rights asset by merely clicking on or selecting the summary information displayed in the summary information display field 204. In one embodiment, the graphical user interface 202 can display the detailed
10 information in the same display field as the summary information. In one embodiment, the graphical user interface 202 can display the detailed information by navigating to a separate page of the graphical user interface 202. In one embodiment, the proprietary rights assets exchange system 102 can display the detailed information by opening a window or tab of a web browser.

15 In one embodiment, if the user wishes to obtain an interest in the proprietary rights asset, the user can click on or otherwise select the obtain interest button 210. When the user selects the obtain interest button 210, the graphical user interface 202 can display additional information and provide additional functionality by which the user can take steps to obtain the interest in
20 the proprietary rights asset. In one embodiment, the user obtains the interest in the proprietary rights asset by exchanging cryptocurrency for tokens associated with ownership interest in the proprietary rights asset.

FIG. 3 is a flow chart showing a computer method 300 for presenting official information about a proprietary rights asset, according to an embodiment.
25 The computer method 300 may include several steps.

According to an embodiment, step 302 may include presenting information about a proprietary rights asset to a user via a user interface on an electronic display. The proprietary rights asset can include an intellectual property asset such as a patent, a published patent application, a non-published patent
30 application, an invention, or a trademark asset.

According to an embodiment, step 304 may include receiving a graphical command from the user via the user interface to buy a blockchain token corresponding to the proprietary rights asset.

According to an embodiment, step 306 may include swapping the
5 blockchain token into a user wallet for a cryptocurrency coin received into an asset wallet.

According to an embodiment, step 308 may include receiving a graphical command from the user to obtain detailed information about the proprietary rights asset.

10 According to an embodiment, step 310 may include accessing and decrypting blockchain data stored in a computer memory responsive to receiving the graphical command to obtain detailed information about the proprietary rights asset.

According to an embodiment, step 312 may include reading an Internet
15 address from the decrypted blockchain. The Internet address may be posted by a proprietary rights office, such as a patent and/or trademark office.

According to an embodiment, step 314 may include opening a viewing window, tab, or screen in the user interface.

According to an embodiment, step 316 may include displaying information
20 from the Internet address to the user on the user interface. In an embodiment, the displayed information includes text from the proprietary rights asset, such as a patent or a patent application. In an embodiment, the displayed information includes a full image of the patent or the patent application. In an embodiment, the displayed information includes a list of related patents. In an embodiment,
25 the displayed information includes a list of patents and/or patent applications naming a common inventor. In an embodiment, the displayed information may include a patent file history. In an embodiment, the displayed information includes a trademark file history.

According to an embodiment, step 302 may include presenting summary
30 information about an intellectual property (IP) asset via a user interface (UI) on an electronic display.

According to an embodiment, with reference to step 310, accessing the blockchain data in the computer memory includes decrypting blockchain data. In one embodiment, decrypting the blockchain data includes decrypting some or all of the blockchain data. According to an embodiment, decrypting some or all of the blockchain data includes decrypting at least a portion of a side chain.

According to an embodiment, decrypting the blockchain data includes decrypting one transaction carried by the blockchain. As an alternative to a blockchain data structure *per se*, step 310 may include decrypting some or all of a distributed ledger. In one embodiment, decrypting the blockchain data can include

10 decrypting the blockchain data with a public key or a private key.

According to an embodiment, with reference to step 312, reading the Internet address from the decrypted blockchain data may include reading blockchain transaction data. According to an embodiment, reading the Internet address from the decrypted blockchain data may include reading a uniform

15 resource locator (url). According to an embodiment, reading the Internet address from the decrypted blockchain data may include reading an Internet Protocol (IP) address.

According to an embodiment, with reference to step 316, displaying information from the Internet address may include displaying a full text image of

20 the patent or the published patent application. According to an embodiment, with reference to step 316, displaying information from the Internet address may include displaying information from a public or private Patent Application Information Retrieval (PAIR) page corresponding to the proprietary rights asset.

According to an embodiment, with reference to step 316, displaying the

25 information from the Internet address includes displaying the information in the opened viewing window, tab or screen in the user interface of step 314.

According to an embodiment, with reference to step 304, receiving the graphical command from the user via the user interface includes swapping a cryptocurrency for a blockchain token corresponding to the proprietary rights

30 asset.

According to an embodiment, step 306 may include swapping the blockchain token into a user wallet for the cryptocurrency received into an IP asset wallet. Either or both of the cryptocurrency or the blockchain token may be a fractional portion of a respective coin or token, according to an embodiment.

5 According to an embodiment, with reference to step 310, accessing and decrypting the blockchain data in the computer memory may include accessing a blockchain carrying the swap transaction.

According to an embodiment, with reference to step 316, displaying the information from the Internet address may include displaying an image of a patent. Additionally or alternatively, displaying the information from the Internet address may include displaying an image of a published patent application. According to an embodiment, step 316 may include displaying an assignment corresponding to the proprietary rights asset. According to an embodiment, step 316 may include displaying a prosecution history of the proprietary rights asset.

10 According to an embodiment, displaying the information from the Internet address may include displaying an image of a trademark. According to an embodiment, step 316 may include displaying a record of a Patent Trial and Appeal Board (PTAB) proceeding. According to an embodiment, step 316 may include displaying a public record from a court proceeding.

20 **FIG. 4** is a flow chart showing a computer method 400 for presenting information about a proprietary rights asset, according to an embodiment. The computer method 400 may include several steps.

In one embodiment, step 402 includes presenting summary information about a proprietary rights asset to a user via a user interface of a proprietary rights asset exchange system.

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In one embodiment, step 402 includes receiving, from the user via the user interface, a command to obtain detailed information about the proprietary rights asset.

In one embodiment, step 406 includes reading, from one or more blockchains, an Internet address associated with proprietary rights asset.

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In one embodiment, step 408 includes displaying, to the user, additional information associated with the proprietary rights asset from the Internet address.

In one embodiment, the proprietary rights asset is a patent asset.

In one embodiment, the summary information includes one or more of an
5 abstract of a patent application or issued patent, a title of a patent application or issued patent, a patent number or a patent application number.

In one embodiment, the additional information includes a complete patent application. Additionally or alternatively, the additional information includes a complete issued patent. In one embodiment, the additional information includes
10 text of a patent application or an issued patent. In one embodiment, the additional information includes figures from a patent application or an issued patent. In one embodiment, the additional information includes claims from a patent application or an issued patent.

In one embodiment, reading the Internet address includes decrypting the
15 Internet address.

In one embodiment, decrypting the Internet address includes decrypting the Internet address with a private key. In one embodiment, decrypting the Internet address includes decrypting the Internet address with a public key.

20 While various aspects and embodiments have been disclosed herein, other aspects and embodiments are contemplated. The various aspects and embodiments disclosed herein are for purposes of illustration and are not intended to be limiting, with the true scope and spirit being indicated by the following claims.

CLAIMS

What is claimed is:

1. A computer method for presenting official information about a proprietary rights asset, comprising:

hosting a proprietary rights exchange for facilitating the exchange of proprietary rights assets, the proprietary rights exchange including a graphical user interface (GUI) enabling one or more users to view and transact proprietary rights assets;

storing on a database a user account associated with each of the one or more users, each user account including user login credentials, personal information, payment information including a cryptocurrency wallet, and contact information;

receiving, from a first user of the one or more users, a user proprietary rights list request to list a proprietary rights asset on the proprietary rights exchange, the user proprietary rights list request including summary information and detailed information about the proprietary rights asset, the summary information being a user provided summary of the proprietary rights asset, and the detailed information including at least ownership data and an address corresponding to a storage location from which further details regarding the proprietary rights asset can be accessed;

encrypting the detailed information about the proprietary rights asset;

recording, on a blockchain, a blockchain transaction, the blockchain transaction having blockchain data including the encrypted detailed information about the proprietary rights asset;

creating a proprietary rights asset listing based on the user proprietary rights list request, the proprietary rights asset listing including the summary information and a link to the blockchain transaction;

storing in a proprietary rights assets listings database the proprietary rights asset listing;

presenting the proprietary rights asset listing to the one or more users via the proprietary rights exchange;

receiving, from a second user of the one or more users via the GUI, a first graphical command to access the proprietary rights asset listing;

executing as query on the proprietary rights assets listings database to identify the proprietary rights asset listing;

presenting the summary information about the proprietary rights asset in a first display field via the GUI on an electronic display;

receiving a second graphical command from the second user of the one or more users via the GUI to obtain detailed information about the proprietary rights asset, the second graphical command being a user selection of a first button displayed on the GUI, the first button corresponding to the link to the blockchain transaction;

accessing and decrypting the blockchain data of the blockchain transaction corresponding to the proprietary rights asset;

reading the address from the decrypted data, the address being an Internet address hosted by a government proprietary rights office;

displaying information from the Internet address to the second user in a second display field via the GUI on the electronic display;

receiving a third graphical command from the second user via the GUI to swap a cryptocurrency for a blockchain token corresponding to an ownership interest in the proprietary rights asset, the third graphical command being a user selection of a second button displayed on the GUI; and

swapping the blockchain token into a user wallet for the cryptocurrency received into a proprietary rights asset wallet, the user wallet being a user cryptocurrency wallet included in a user account associated with the second user.

2. The computer method of claim 1,

wherein accessing the data includes accessing blockchain data; and

wherein decrypting the blockchain data includes decrypting some or all of the blockchain data.

3. The computer method of claim 2, wherein decrypting some or all of the blockchain data includes decrypting at least a portion of a side chain.

4. The computer method of claim 2, wherein decrypting the blockchain data includes decrypting one block of the blockchain.

5. The computer method of claim 1, wherein reading the Internet address from the decrypted blockchain data includes reading a uniform resource locator.

6. The computer method of claim 1, wherein reading the Internet address from the decrypted blockchain data includes reading an Internet Protocol address.

7. The computer method of claim 1, wherein displaying the information from the Internet address includes displaying a full text image of a patent or a published patent application.

8. The computer method of claim 1, wherein displaying the information from the Internet address includes displaying information from a public or private Patent Application Information Retrieval page corresponding to the proprietary rights asset.

9. The computer method of claim 1, further comprising:

opening a viewing window, tab, or screen in the GUI;

wherein displaying the information from the Internet address includes displaying the information in the opened viewing window, tab or screen.

10. The computer method of claim 1, wherein at least one of the blockchain token or the cryptocurrency includes a fractional portion.

11. The computer method of claim 1, wherein accessing and decrypting the blockchain data includes accessing a blockchain carrying the swap transaction.

12. The computer method of claim 1, wherein the proprietary rights asset is an intellectual property asset.

13. The computer method of claim 11, wherein displaying the information from the Internet address includes displaying an image of a patent.

14. The computer method of claim 11, wherein displaying the information from the Internet address includes displaying an image of a published patent application.

15. The computer method of claim 11, wherein displaying the information from the Internet address includes displaying an assignment corresponding to the intellectual property asset.

16. The computer method of claim 11, wherein displaying the information from the Internet address includes displaying a prosecution history of the intellectual property asset.

17. The computer method of claim 11, wherein displaying the information from the Internet address includes displaying an image of a trademark.

18. The computer method of claim 11, wherein displaying the information from the Internet address includes displaying a record of a Patent Trial and Appeal Board proceeding.

19. The computer method of claim 11, wherein displaying the information from the Internet address includes displaying a public record from a court proceeding.

20. The computer method of claim 1,

wherein the Internet address is obscured and reading the Internet address from the decrypted blockchain data includes reading an address label;

further comprising, decoding the address label to determine an actual information storage address; and

wherein reading the Internet address from the decrypted blockchain data includes reading the actual information storage address.

21. The computer method of claim 20, wherein displaying information from the Internet address to the user on the electronic display includes masking the data from the Internet address to substantially prevent the user from deducing the actual information storage address.

22. A computing system, comprising:

at least one or more processors; and

at least one computer readable memory having instructions therein, which, when executed by the one or more processors, perform a process including:

hosting a proprietary rights exchange for facilitating the exchange of proprietary rights assets, the proprietary rights exchange including a graphical user interface (GUI) enabling one or more users to view and transact proprietary rights assets;

storing on a database a user account associated with each of the one or more users, each user account including user login credentials, personal information, payment information including a cryptocurrency wallet, and contact information;

receiving, from a first user of the one or more users, a user proprietary rights list request to list a proprietary rights asset on the proprietary rights exchange, the user proprietary rights list request including summary information and detailed information about the proprietary rights asset, the summary information being a user provided summary of the proprietary rights asset, and the detailed information including at least ownership data and an

address corresponding to a storage location from which further details regarding the proprietary rights asset can be accessed;

encrypting the detailed information about the proprietary rights asset;

recording, on a blockchain, a blockchain transaction, the blockchain transaction having blockchain data including the encrypted detailed information about the proprietary rights asset;

creating a proprietary rights asset listing based on the user proprietary rights list request, the proprietary rights asset listing including the summary information and a link to the blockchain transaction;

storing in a proprietary rights assets listings database the proprietary rights asset listing;

presenting the proprietary rights asset listing to the one or more users via the proprietary rights exchange;

receiving, from a second user of the one or more users via the GUI, a first graphical command to access the proprietary rights asset listing;

executing as query on the proprietary rights assets listings database to identify the proprietary rights asset listing;

presenting the summary information about the proprietary rights asset in a first display field via the GUI on an electronic display;

receiving, from the second user via the GUI, a second graphical command to obtain detailed information about the proprietary rights asset, the second graphical command being a user selection of a first button displayed on the GUI, the first button corresponding to the link to the blockchain transaction;

accessing and decrypting the blockchain data of the blockchain transaction corresponding to the proprietary rights asset;

reading, the address from the decrypted data, the address being an Internet address hosted by a government proprietary rights office;

displaying, to the second user in a second display field via the GUI, information from the Internet address;

receiving a third graphical command from the second user via the GUI to swap a cryptocurrency for a blockchain token corresponding to an ownership interest in the proprietary rights asset, the third graphical command being a user selection of a second button displayed on the GUI; and

swapping the blockchain token into a user wallet for the cryptocurrency received into a proprietary rights asset wallet, the user wallet being a user cryptocurrency wallet included in a user account associated with the second user.

23. The computing system of claim 22, wherein the proprietary rights asset is a patent asset.

24. The computing system of claim 23, wherein the summary information includes an abstract of a patent application or an issued patent.

25. The computing system of claim 23, wherein the summary information includes a title of a patent application or an issued patent.

26. The computing system of claim 23, wherein the summary information includes a patent number or a patent application number.

27. The computing system of claim 23, wherein the information from the Internet address includes a complete patent application.

28. The computing system of claim 23, wherein the information from the Internet address includes a complete issued patent.

29. The computing system of claim 23, wherein the information from the Internet address includes text of a patent application or an issued patent.

30. The computing system of claim 23, wherein the information from the Internet address includes figures from a patent application or an issued patent.

31. The computing system of claim 23, wherein the information from the Internet address includes claims from a patent application or issued patent.

32. The computing system of claim 22, wherein reading the Internet address includes decrypting the Internet address.

33. The computing system of claim 32, wherein decrypting the Internet address includes decrypting the Internet address with a private key.

34. The computing system of claim 32, wherein decrypting the Internet address includes decrypting the Internet address with a public key.

35. The computing system of claim 32, wherein decrypting the Internet address includes:

decrypting an address label; and

decoding the address label to determine the Internet address.