

DESCRIPTION

Title of Invention: ALCOHOLIC BEVERAGE NFT TRANSACTION SUPPORT DEVICE,
ALCOHOLIC BEVERAGE NFT TRANSACTION SUPPORT METHOD, ALCOHOLIC
5 BEVERAGE NFT TRANSACTION SUPPORT PROGRAM, AND RECORDING MEDIUM

TECHNICAL FIELD

[0001] The present disclosure relates to an alcoholic beverage NFT transaction support
apparatus, an alcoholic beverage NFT transaction support method, an alcoholic beverage NFT
10 transaction support program, and a recording medium.

BACKGROUND ART

[0002] In recent years, a variety of products are traded online with the development of EC
(electronic commerce) sites and the like. For example, the following Patent Literature 1
describes a program that allows selling of alcoholic beverage products such as sake and the like
15 on EC sites.

Citation List

Patent Literature

[0003] Patent Literature 1: JP 2021-131743A

SUMMARY OF INVENTION

20 Technical Problem

[0004] In fact, authenticity and value of products on EC sites are not secured. Thus, when
purchasing such products, purchasers might receive products different from the ones they
ordered. Trading of alcoholic beverages is especially becoming a problem because there are
some cases that the alcoholic beverages are replaced by a different liquor and only the containers
25 are authentic.

[0005] Hence, it is an object of the present disclosure to provide an alcoholic beverage NFT
transaction support apparatus, an alcoholic beverage NFT transaction support method, and a
program, which can secure the value of alcoholic beverages and enhance their market value.

Solution to Problem

30 [0006] To achieve the above object, the present disclosure provides an alcoholic beverage NFT
transaction support apparatus, including: an NFT issuance request acquisition part; an NFT
issuance part; a marketing part; a transaction information acquisition part; an NFT management
part; an optional information acquisition part; and an instruction information output part, wherein
the NFT issuance request acquisition part acquires manufacturing unit NFT issuance request
35 information, the manufacturing unit NFT issuance request information including manufacturing

unit identification information of an alcoholic beverage product, the NFT issuance part issues, on a blockchain, a manufacturing unit NFT for each manufacturing unit of the alcoholic beverage product specified by the manufacturing unit identification information, based on the manufacturing unit NFT issuance request information, the marketing part releases the manufacturing unit NFT on a market, the transaction information acquisition part acquires transaction information of the manufacturing unit NFT in the market, the NFT management part updates owner information of the manufacturing unit NFT on the blockchain based on the transaction information, the optional information acquisition part acquires optional information on the manufacturing unit of the alcoholic beverage product in association with the manufacturing unit NFT, the optional information including information on storage of the manufacturing unit of the alcoholic beverage product, and the instruction information output part generates instruction information based on the optional information, the instruction information including product management instruction information based on the optional information, and outputs the instruction information including the product management instruction information.

[0007] The present disclosure also provides an alcoholic beverage NFT transaction support method, including: acquiring NFT issuance request; issuing an NFT; marketing the NFT; acquiring transaction information; managing the NFT; acquiring optional information; and outputting instruction information, wherein the acquiring NFT issuance request includes acquiring manufacturing unit NFT issuance request information, the manufacturing unit NFT issuance request information including manufacturing unit identification information of an alcoholic beverage product, the issuing the NFT includes issuing, on a blockchain, a manufacturing unit NFT for each manufacturing unit of the alcoholic beverage product specified by the manufacturing unit identification information, based on the manufacturing unit NFT issuance request information, the marketing the NFT includes releasing the manufacturing unit NFT on a market, the acquiring transaction information includes acquiring transaction information of the manufacturing unit NFT in the market, the managing the NFT includes updating owner information of the manufacturing unit NFT on the blockchain based on the transaction information, the acquiring optional information includes acquiring optional information on the manufacturing unit of the alcoholic beverage product in association with the manufacturing unit NFT, the optional information including information on storage of the manufacturing unit of the alcoholic beverage product, and the outputting instruction information includes generating instruction information based on the optional information, the instruction information including product management instruction information based on the optional information, and outputting the instruction information including the product management instruction information.

[0008] The present disclosure also provides an alcoholic beverage NFT transaction support program for causing a computer to execute procedures, including: an NFT issuance request acquisition procedure; an NFT issuance procedure; a marketing procedure; a transaction information acquisition procedure; an NFT management procedure; an optional information acquisition procedure; and an instruction information output procedure, wherein the NFT issuance request acquisition procedure includes acquiring manufacturing unit NFT issuance request information, the manufacturing unit NFT issuance request information including manufacturing unit identification information of an alcoholic beverage product, the NFT issuance procedure includes issuing, on a blockchain, a manufacturing unit NFT for each manufacturing unit of the alcoholic beverage product specified by the manufacturing unit identification information, based on the manufacturing unit NFT issuance request information, the marketing procedure includes releasing the manufacturing unit NFT on a market, the transaction information acquisition procedure includes acquiring transaction information of the manufacturing unit NFT in the market, the NFT management procedure includes updating owner information of the manufacturing unit NFT on the blockchain based on the transaction information, the optional information acquisition procedure includes acquiring optional information on the manufacturing unit of the alcoholic beverage product in association with the manufacturing unit NFT, the optional information including information on storage of the manufacturing unit of the alcoholic beverage product, and the instruction information output procedure includes generating instruction information based on the optional information, the instruction information including product management instruction information based on the optional information, and outputting the instruction information including the product management instruction information.

[0009] The present disclosure also provides a computer-readable recording medium recorded with an alcoholic beverage NFT transaction support program for causing a computer to execute procedures, wherein the program includes: an NFT issuance request acquisition procedure; an NFT issuance procedure; a marketing procedure; a transaction information acquisition procedure; an NFT management procedure; an optional information acquisition procedure; and an instruction information output procedure, wherein the NFT issuance request acquisition procedure includes acquiring manufacturing unit NFT issuance request information, the manufacturing unit NFT issuance request information including manufacturing unit identification information of an alcoholic beverage product, the NFT issuance procedure includes issuing, on a blockchain, a manufacturing unit NFT for each manufacturing unit of the alcoholic beverage product specified by the manufacturing unit identification information, based on the manufacturing unit NFT issuance request information, the marketing procedure includes

releasing the manufacturing unit NFT on a market, the transaction information acquisition procedure includes acquiring transaction information of the manufacturing unit NFT in the market, the NFT management procedure includes updating owner information of the manufacturing unit NFT on the blockchain based on the transaction information, the optional information acquisition procedure includes acquiring optional information on the manufacturing unit of the alcoholic beverage product in association with the manufacturing unit NFT, the optional information including information on storage of the manufacturing unit of the alcoholic beverage product, and the instruction information output procedure includes generating instruction information based on the optional information, the instruction information including product management instruction information based on the optional information, and outputting the instruction information including the product management instruction information.

Advantageous Effects of Invention

[0010] The present disclosure can secure the value of alcoholic beverages and enhance their market value.

BRIEF DESCRIPTION OF DRAWINGS

[0011] [FIG. 1] FIG. 1 is a block diagram showing an example configuration of an alcoholic beverage NFT transaction support apparatus of the present disclosure.

[FIG. 2] FIG. 2 is a block diagram showing an example of a hardware configuration of the alcoholic beverage NFT transaction support apparatus of the present disclosure.

[FIG. 3] FIG. 3 is a flowchart of an example of a processing in the alcoholic beverage NFT transaction support apparatus of the present disclosure.

[FIG. 4] FIG. 4 is a block diagram showing an example configuration of the alcoholic beverage NFT transaction support apparatus of the present disclosure.

[FIG. 5] FIG. 5 is a flowchart of an example of a processing in the alcoholic beverage NFT transaction support apparatus of the present disclosure.

[FIG. 6] FIG. 6 is a schematic view showing an example display of a terminal in the use of the alcoholic beverage NFT transaction support apparatus of the present disclosure.

[FIG. 7] FIG. 7 is a schematic view showing an example display of a terminal in the use of the alcoholic beverage NFT transaction support apparatus of the present disclosure.

DESCRIPTION OF EMBODIMENTS

[0012] In the present disclosure, an "alcoholic beverage", for example, is not particularly limited as long as being a beverage containing alcohol. The alcoholic beverage may be, for example, any of brewage, distilled liquor, and mixed liquor. Specific examples of the alcoholic beverage include sake, beer, happoshu, umeshu, shochu, chuhai, wine, whisky, spirits, liqueur, doburoku, makgeolli, cocktails, brandy, tequila, and rum.

[0013] The embodiments of the present disclosure are described below with reference to the drawings. It is to be noted, however, that the present disclosure is by no means limited or restricted by the following example embodiments. In the following drawings, identical parts are indicated with identical reference signs. Regarding the descriptions of the example embodiments, reference can be made to one another unless otherwise stated. Furthermore, the configurations of the example embodiments can be combined unless otherwise stated.

[0014] [First Embodiment]

FIG. 1 is a block diagram showing an example configuration of an alcoholic beverage NFT transaction support apparatus 10 of the present embodiment. As shown in FIG. 1, the apparatus 10 includes an NFT issuance request acquisition part 11, an NFT issuance part 12, a marketing part 13, a transaction information acquisition part 14, an NFT management part 15, an optional information acquisition part 16, and an instruction information output part 17. The apparatus 10 may include an input part, an output part, a display part, and/or a storage part that are not shown. As shown in FIG. 1, for example, the apparatus 10 is capable of communicating with a blockchain network 30 via a communication line network 20, and further with a terminal of an alcoholic beverage provider 40 and a terminal of a manufacturing unit NFT information transactor 50.

[0015] The apparatus 10 may be, for example, one apparatus including said parts, or may be an apparatus connectable to each of the parts via a communication line network. The apparatus 10 is also connectable to an external unit described below via the communication line network. The communication line network is not particularly limited and may be a known network, which may be, for example, wired or wireless. Examples of the communication line network include an internet line, WWW (World Wide Web), a telephone line, LAN (Local Area Network), SAN (Storage Area Network), DTN (Delay Tolerant Networking), LPWA (Low Power Wide Area), and L5G (local 5G). Examples of wireless communication include WI-FI® (registered trademark), BLUETOOTH® (registered trademark), local 5G, and LPWA. The wireless communication may be a form where apparatuses directly communicate with each other (Ad-Hoc communication), infrastructure communication, indirect communication via an access point, or the like. The apparatus 10 may be built in a server as a system, for example. The apparatus 10 may also be, for example, a personal computer (PC, e.g., a desktop PC and a laptop), a smartphone, a tablet terminal, or the like with the program of the present disclosure installed therein. The apparatus 10 may be, for example, a form of cloud computing, edge computing, or the like such that at least one of the parts is on a server and the rest of the parts are on a terminal.

[0016] FIG. 2 is a block diagram exemplifying a hardware configuration of the apparatus 10.

The apparatus 10 includes, for example, a central processing unit (CPU, GPU, or the like) 101, a

memory 102, a bus 103, a storage 104, an input unit 105, an output unit 106, a communication device 107, and the like. These units in the apparatus 10 are connected to each other through their respective interfaces (I/F) via the bus 103.

[0017] The central processing unit 101 cooperatively operates with other configurations and controls the overall operation of the apparatus 10 with a controller (such as a system controller, and an I/O controller) or the like. In the apparatus 10, the central processing unit 101 executes the program of the present disclosure or other programs, and reads and writes various information, for example. Specifically, for example, the central processing unit 101 functions as the NFT issuance request acquisition part 11, the NFT issuance part 12, the marketing part 13, the transaction information acquisition part 14, the NFT management part 15, the optional information acquisition part 16, and the instruction information output part 17. The apparatus 10 may be provided with other arithmetic operation units such as CPU, GPU (Graphics Processing Unit), APU (Accelerated Processing Unit), and the like or a combination thereof.

[0018] The bus 103 is, for example, connectable to an external unit. Examples of the external unit include an external storage (external data base or the like), a printer, an external input unit, an external display, and an external imaging unit. The apparatus 10 is, for example, connectable to an external network (the communication line network) with the communication device 107 connected to the bus 103, and is connectable to other units via the external network.

[0019] A memory 102 may be, for example, a main memory (main storage). When the central processing unit 101 performs the processing, for example, the memory 102 reads the program of the present disclosure or other various operation programs stored in the storage 104 described below, the central processing unit 101 receives data from the memory 102 and executes the program. The main memory may be RAM (Random Access Memory), for example. The memory 102 may be ROM (Read Only Memory), for example.

[0020] The storage 104 is referred to as a so-called auxiliary storage to the main memory (main storage), for example. As described above, operation programs including the program of the present disclosure are stored in the storage 104. The storage 104 may be a combination of a recording medium and a drive for performing reading and writing to the recording medium, for example. The recording medium is not particularly limited and may be a built-in type or an external type, and examples thereof include HD (Hard Disk), CD-ROM, CD-R, CD-RW, MO, DVD, a flash memory, and a memory card. The storage 104 may be a hard disk drive (HDD) or a solid state drive (SSD) in which a drive and a storage medium are integrated with each other, for example. When the apparatus 10 includes the storage part, for example, the storage 104 functions as the storage part. The storage part can store, for example, information on the alcoholic beverage provider and the transactor (identification information (e.g., a name or a handle name,

address, a phone number, and ID), attribute information (e.g., sex, age, a belonging organization, address, contact information, hobbies, and preferences), biological information, or the like), NFT issuance request information, manufacturing unit identification information, manufacturing unit NFT, product unit identification information, product unit NFT, transaction information, owner information, optional information, product management instruction information, management information, shipping request information, shipping instructions, and the like.

[0021] In the apparatus 10, the memory 102 and the storage 104 can also store various information such as log information, information acquired from external data bases (not shown) or external units, information generated by the apparatus 10, and information used for executing the processing by the apparatus 10. In this case, the memory 102 and the storage 104 may store the above-described information on the user of the apparatus, or the like, for example. Note that, at least several pieces of the information may be stored in an external server other than the memory 102 or the storage 104, or may be dispersedly stored in several terminals with the blockchain technology or the like, for example.

[0022] The apparatus 10 is further provided with the input unit 105 and the output unit 106, for example. Examples of the input unit 105 include: a pointing device such as a touch panel, a track pad, and a mouse; a keyboard; an imaging unit such as a camera and a scanner; a card reader such as an IC card reader and a magnetic card reader; and a voice input unit such as a microphone. Examples of the output unit 106 include a display such as a LED display and a liquid crystal display; a voice output unit such as a speaker; and a printer. The input unit 105 and the output unit 106 are separately configured in the first embodiment. However, the input unit 105 and the output unit 105 may be integrally configured like a touch panel display.

[0023] Next, an example of the alcoholic beverage NFT transaction support method according to the present embodiment will be described with reference to the flowchart of FIG. 3. The method according to the present embodiment is performed as follows using the apparatus 10 in FIG. 1 or 2, for example. Note that, the method according to the present embodiment is not limited to the use of the apparatus 10 of FIG. 1 or 2.

[0024] Firstly, the NFT issuance request acquisition part 11 acquires manufacturing unit NFT issuance request information (S1, acquiring NFT issuance request). The NFT issuance request information is, for example, information for requesting issuance of the manufacturing unit NFT to the apparatus 10 from a person who wants to issue the manufacturing unit NFT (also referred to as an issuance requester, e.g., a provider of an alcoholic beverage product (e.g., a manufacturer, a seller, or a distributor of an alcoholic beverage)) described below. The manufacturing unit NFT issuance request information includes manufacturing unit identification information of an alcoholic beverage product. The manufacturing unit identification information

is information for identifying a manufacturing unit of the alcoholic beverage product. The manufacturing unit of the alcoholic beverage product is a predetermined unit at the time of manufacturing of the alcoholic beverage product, and may be, for example, a unit of a manufacturing container (e.g., a tank or a barrel) during manufacturing, or a unit of a storage container (e.g., a barrel) after manufacturing and before being filled into containers such as glass bottles as products. The manufacturing unit may also be referred to as, for example, a lot unit. The manufacturing unit identification information is not particularly limited as long as it enables identification (specification) of the manufacturing unit, and examples thereof include a manufacturing number (lot number) and identification information of the storage container. The NFT issuance request acquisition part 11 may acquire the manufacturing unit NFT issuance request information, for example, from a terminal 40 of an alcoholic beverage provider (issuance requester) shown in FIG. 1, or from input by an administrator of the apparatus 10 who has received information from the alcoholic beverage provider. The NFT issuance request acquisition part 11 may acquire the manufacturing unit NFT issuance request information directly from the terminal 40 or indirectly. In the latter case, the NFT issuance request acquisition part 11 may acquire the manufacturing unit NFT issuance request information from, for example, a server device or a storage that acquires and stores the manufacturing unit NFT issuance request information output from the terminal 40.

[0025] The NFT issuance request information may include transaction information, for example. The transaction information is, for example, transaction information of the manufacturing unit NFT with a transactor via the marketing part 13 described below. Examples of the transaction information include identification information of a manufacturing unit NFT that is a transaction target, information on a transactor (e.g., the provider) (e.g., identification information of the transactor), information on a price of the manufacturing unit NFT, information on a probability of fluctuation of the price, a transaction acceptable term, information on the manufacturing unit of the alcoholic beverage product specified by the manufacturing unit identification information associated with the manufacturing unit NFT (e.g., a trade name, an alcohol content, information on a production location (e.g., a production area and a manufacturer (brewery))), information on a manufacturing method (e.g., raw materials, a rice-polishing ratio, and a variety), information on taste (e.g., sweetness, sourness, and Nihonshu-do), and information on volume, manufacturing date, product appearance (e.g., a container image), and a product description. The transactor identification information is, for example, information for identifying the alcoholic beverage provider, and may include information such as a shop name, product information (type and price of the product), a delivery method, a name, a handle name, address, a phone number, mail address, ID, an identification number, and identification

information of the terminal owned by the alcoholic beverage provider (e.g., a serial number, IMEI (International Mobile Equipment Identity), IP address, and MAC address).

[0026] Based on the manufacturing unit NFT issuance request information, an NFT issuance part 12 then issues manufacturing unit NFT on a blockchain for each manufacturing unit of the alcoholic beverage product specified by the manufacturing unit identification information (S2, issuing an NFT). The manufacturing unit NFT is, for example, an NFT (Non-Fungible Token) associated on a one-to-one basis with a manufacturing unit specified by the manufacturing unit identification information. The NFT has an original identifier that allows distinction between the NFT and other NFTs, and thus can have its own value distinguished from other NFTs.

Specifically, the NFT issuance part 12 can store the manufacturing unit NFT in each of nodes 31 on a blockchain network 30 connected to the apparatus 10 via a communication line network 20, to issue the manufacturing unit NFT on the blockchain. The NFT issuance part 12 may, for example, further record information on the alcoholic beverage product associated with the a manufacturing unit NFT on the blockchain network 30. The NFT issuance part 12 may store, for example, the manufacturing unit NFT in the memory 102 or the storage 104. In this case, the NFT issuance part 12 may store manufacturing unit identification information of the manufacturing unit of the alcoholic beverage product corresponding to the manufacturing unit NFT in association with the manufacturing unit NFT. Note that, while each of the nodes 31 on the blockchain network 30 is described as a terminal different from the terminal of an alcoholic beverage provider 40 and the terminal of a transactor 50 in FIG. 1, the whole or a part of the terminal of the alcoholic beverage provider 40 and the terminal of a transactor 50 may function as the node 31 on the blockchain network 30. The issuing the NFT in S2 may also be referred to as issuing a manufacturing unit NFT.

[0027] The manufacturing unit NFT may include, for example, an additional program that realizes an additional function. The additional program is not particularly limited, and for example, a program for realizing a system such that a part of the distribution price is paid to the administrator of the apparatus 10 or the alcoholic beverage provider as fees when the manufacturing unit NFT is distributed from one to another. The manufacturing unit NFT may further include content information such as illustrations and other images, music, and the like, for example.

[0028] Thereafter, a marketing part 13 releases the manufacturing unit NFT on a market (S3, marketing a manufacturing unit NFT). Specifically, the marketing part 13 can transmit the manufacturing unit NFT to a general blockchain marketplace via the communication line network to release the manufacturing unit NFT on the market, for example. The marketing part 13 may further transmit transaction information to the blockchain marketplace, for example. The

transaction information is, for example, information necessary to carry out a transaction of an NFT on the blockchain market. The transaction information may be, for example, information included in the NFT issuance request information acquired in S1, or information stored in the memory 102 or the storage 104 of the apparatus 10. Specifically, for example, the whole or a
5 piece of the transaction information may be stored in association with a user account registered by the alcoholic beverage provider to use the apparatus 10. The marketing part 13 itself may, for example, function as the blockchain marketplace, for example. In this case, the marketing part 13 of the apparatus 10 may be a market (store) server independent of other parts of the apparatus 10. In this case, the market (store) server is capable of, for example, communicating with a unit
10 including other parts of the apparatus 10,. Note that, in the case where the marketing part 13 has the marketplace function, payment may be carried out by the apparatus 10 or may be separately carried out in the exterior of the apparatus 10. In the former case, the apparatus 10 may include a payment part, for example. In this case, the payment part can perform payment processing by acquiring transaction price information of the manufacturing unit NFT based on transaction
15 information described below, transmitting the transaction price information to an external payment server, and acquiring a payment result achieved by the payment server. Note that the payment processing is not particularly limited, and for example, various methods in known payment units can be used therefor.

[0029] The marketing part 13 may include, for example, a marketing function for reselling the
20 manufacturing unit NFT. In this case, the marketing part 13 can, for example, acquire exhibition information of the manufacturing unit NFT from the owner of the manufacturing unit NFT and release the exhibition information on the market. Examples of the exhibition information include information specifying manufacturing unit NFT that the owner wants to resell, identification information of the owner (a name, a handle name, address, a phone number, mail address, ID, an
25 identification number, and an identification number of the terminal owned by the alcoholic beverage provider or the administrator of the apparatus 10 (e.g., a serial number, IMEI (International Mobile Equipment Identity), IP address, and MAC address)), price information, and optional information described below. Also, the market part 13 may, for example, release the optional information described below on the market so that a transactor of the manufacturing
30 unit token information can select the optional information on the market.

[0030] Then, a transaction information acquisition part 14 acquires transaction information of the manufacturing unit NFT in the market (S4, acquiring transaction information). The transaction information is, for example, information relating to a transaction of the manufacturing unit NFT on the blockchain marketplace, and examples thereof include
35 information on transactors (e.g., a seller, and a purchaser), a transaction date, a transaction place,

manufacturing unit NFT for a transaction, and a transaction price. The transaction information may include, for example, optional information described in the following second embodiment. The transaction information acquisition part 14 can, for example, acquire the transaction information from a server that constructs the blockchain marketplace. When the marketing part 5 13 of the apparatus 10 has a function as the blockchain marketplace, the transaction information may be acquired from the marketing part 13. When the marketing part 13 has the marketing function for resale, the transaction information acquisition part 14 may, for example, acquire the transaction information of the manufacturing unit NFT in the market based on the exhibition information. The transaction information acquisition part 14 may, for example, store the acquired 10 transaction information in the memory 102 or the storage 104.

[0031] An NFT management part 15 updates owner information of the manufacturing unit NFT on the blockchain, based on the transaction information (S5, managing an NFT). The NFT management part 15 can, for example, recognize a purchaser of the manufacturing unit NFT as an owner of the manufacturing unit NFT based on the transaction information, and register 15 information on the purchaser on the blockchain network 30 as the owner information. When a manufacturing unit NFT already owned by someone is exhibited by the marketing part 13 and purchased by another transactor, the NFT management part 15 registers the purchaser as a new owner of the traded manufacturing unit NFT on the blockchain network 30. The registration of the information on the blockchain 30 may be, for example, performed in the same manner as in 20 S2. In this way, the owner of the manufacturing unit NFT can be registered on the blockchain network 30 to clarify the owner of the product specified by the product identification information associated with the manufacturing unit NFT.

[0032] Next, the optional information acquisition part 16 acquires optional information on the alcoholic beverage product in association with the manufacturing unit NFT, for example (S6 25 acquiring optional information). The optional information acquisition part 16 may, for example, acquire the optional information input by a user when processing a transaction in the marketplace, or may acquire the optional information separately input (purchased) by a user who has completed a transaction of the manufacturing unit NFT. In this way, the optional information acquisition part 16, for example, can acquire optional information on the alcoholic beverage 30 product. The optional information acquisition part 16 may, for example, store the acquired optional information in the memory 102 or the storage 104 in association with the manufacturing unit NFT associated with the corresponding alcoholic beverage product. The NFT management part 15 may, for example, store the acquired optional information on the blockchain in association with the manufacturing unit NFT. The optional information is information selectable 35 by a transactor in a transaction of the manufacturing unit NFT, and is information for instructing

a management state of a manufacturing unit, which is selectable by the transactor of the manufacturing unit NFT. Accordingly, the optional information may also be referred to as selection instruction information.

[0033] The optional information is, for example, information on options that can be selected by a purchaser in a transaction of the manufacturing unit NFT. A specific example of the optional information is information on how to handle (management, storage state, and delivery) the manufacturing unit of the alcoholic beverage product specified by the manufacturing unit identification information associated with the manufacturing unit NFT. The optional information includes, for example, information on storage of the manufacturing unit of the alcoholic beverage product (storage temperature, a storage place, a storage period). The information on the storage state may be, for example, information specifically specifying temperature, humidity, lightness of the storage place, storage conditions (management conditions) of the storage container or the like, a storage period, or the like, or may be information specifying a category of the storage state (management state) such as freezing, quick-freezing, (also referred to as flash-freezing), refrigeration, storage at a room temperature, and aging. In the latter case, the apparatus 10 is, for example, preferred to store the combination of a category of the storage state and the corresponding information on specific storage conditions in the storage part, for each type of alcoholic beverage product.

[0034] The optional information may include, for example, information on delivery of the manufacturing unit of the alcoholic beverage product (a delivery agent, a delivery period, delivery conditions (temperature conditions such as refrigeration, freezing, a room temperature, or the like), a delivery destination, or the like). The information on delivery of the manufacturing unit of the alcoholic beverage product may be, for example, simultaneously acquired with the information on storage of the manufacturing unit of the alcoholic beverage product, or may be separately acquired. In the latter case, the optional information including the information on delivery is also referred to as delivery request information, for example. The owner of the manufacturing unit NFT may be, for example, able to request delivery of the manufacturing unit of the alcoholic beverage product associated with the manufacturing unit NFT he/she owns, at any timing or only within a preset validity term of the manufacturing unit NFT.

[0035] Then, the instruction information output part 17 generates instruction information based on the optional information, and outputs the instruction information (S7 outputting instruction information).

[0036] When the optional information includes the information on storage of the manufacturing unit of the alcoholic beverage product, the instruction information output part 17 can, for example, generate product management instruction information as the instruction information,

based on the optional information. Specifically, when the optional information includes specific information on the storage state of the manufacturing unit of the alcoholic beverage product, the instruction information output part 17 can, for example, generate the information on the storage conditions as the instruction information. When the optional information is the information specifying a category of the storage state, the instruction output part 17 can refer to the storage part, refer to the storage conditions associated with the category of the storage state corresponding to the alcoholic beverage product purchased by the purchaser, and generate and output the information on the storage conditions as the instruction information. An output destination of the instruction information may be a provider of the alcoholic beverage product, an administrator of the apparatus 10, a delivery agent, or a custodian of the alcoholic beverage product, for example. The delivery agent and the custodian are, for example, preferred to be the ones designated by the administrator. Also, the instruction information output part 17 may, for example, output the instruction information to a storage for storing the manufacturing unit of the alcoholic beverage product. By outputting the instruction information to the storage, the instruction information output part 17 can cause storage conditions of the storage in which the manufacturing unit is stored to be changed in accordance with the instruction information.

[0037] An administrator (e.g., the provider, the custodian, or the like) of the manufacturing unit of the alcoholic beverage product, to whom the instruction information is output, can change the storage state of the manufacturing unit of the alcoholic beverage product based on the instruction information. The storage state can be, for example, changed by the administrator him/herself or someone who received an instruction from the administrator of the alcoholic beverage product (e.g., a delivery agent, a distribution agent, and a storage agent). Then, the administrator can, for example, transmit information on the storage state of the alcoholic beverage product as management information to the apparatus 10 from the terminal of the provider (terminal 40). The instruction information output part 17 of the apparatus 10 can, for example, acquire the transmitted management information, and output the management information in association with the corresponding manufacturing unit NFT. The output may be, for example, performed directly to a terminal of the provider, a transactor, a purchaser, or the like, or may be performed so that the management information be browsable on the blockchain marketplace. Thus, the purchaser of the manufacturing unit NFT (owner of the alcoholic beverage product) can check the management information of the manufacturing unit of the alcoholic beverage product via the apparatus 10. Note that acquisition of the management information is not limited thereto, and the apparatus 10 may, for example, acquire storage information of the manufacturing unit of the corresponding alcoholic beverage product as the management information by a camera or various sensors provided in a storage facility of the manufacturing unit of the alcoholic beverage

product.

[0038] When the optional information includes the information on delivery of the manufacturing unit of the alcoholic beverage product, the instruction information output part 17 generates, for example, a delivery instruction based on the optional information and outputs the delivery instruction information. Specifically, the instruction information output part 17 generates, for example, the delivery instruction for arranging delivery of the alcoholic beverage product, based on the information on delivery of the manufacturing unit of the alcoholic beverage product (a delivery agent, a delivery period, delivery conditions (temperature conditions such as refrigeration, freezing, and a room temperature), a delivery destination, or the like). Then, the instruction information output part 17 can output the delivery instruction to the terminal of the provider, the administrator, a delivery agent, a warehouse management agent, a distribution agent, or the like.

[0039] The administrator of the alcoholic beverage product who has received the instruction information, for example, arranges shipping of the alcoholic beverage product based on the delivery instruction. The shipping may be, for example, arranged by the administrator him/herself or someone who has received an instruction from the administrator (e.g., a delivery agent, a distribution agent, and a storage agent). The administrator can, for example, then transmit information on the delivery status of the alcoholic beverage product as the management information to the apparatus 10 from the terminal of the administrator (terminal 40). The instruction information output part 17 of the apparatus 10 can, for example, acquire the transmitted management information and output the management information in association with the corresponding manufacturing unit NFT. The output may be, for example, direct output to a terminal of the provider, a transactor, a purchaser, or the like, or may be output with which the management information is browsable on the blockchain marketplace. Thus, the purchaser of the manufacturing unit NFT (owner of the alcoholic beverage product) can check the delivery status of the alcoholic beverage product via the apparatus 10.

[0040] The alcoholic beverage NFT transaction support apparatus of the present embodiment allows issuing manufacturing unit NFT associated on a one-to-one basis with a manufacturing unit specified by manufacturing unit identification information of the alcoholic beverage product, and recording a transaction of the manufacturing unit NFT with a blockchain network. A manufacturing unit NFT issued by the apparatus of the present embodiment, for example, is associated on a one-to-one basis with a manufacturing unit specified by the manufacturing unit identification information. Therefore, the apparatus of the present embodiment allows indirect transactions of manufacturing units of alcoholic beverage products through transactions of the manufacturing unit NFT. The manufacturing unit NFT and the manufacturing unit identification

information are in a one-to-one relationship. It is possible to record their transaction history and information on the manufacturing unit of the alcoholic beverage product associated with the manufacturing unit NFT, on a blockchain network. Accordingly, it is possible to secure authenticity and value of alcoholic beverage products for transactions.

5 [0041] In general, it is known that the value of an alcoholic beverage product varies significantly depending on its storage conditions. On the other hand, rating of the value of alcoholic beverage products based on their storage conditions varies largely depending on preferences or sense of value by consumers, even for the same alcoholic beverage products. Specifically for example, even for the alcoholic beverages of the same type manufactured by the
10 same manufacturer, one consumer might highly rate the fresh alcoholic beverage right after manufactured, whereas another consumer highly rates the alcoholic beverage aged over a long period of time. However, storage and management conditions (e.g., whether flash-freezing the fresh alcoholic beverage right after manufactured or aging the alcoholic beverage) of alcoholic beverage products can be generally selected only by manufacturers or the like of the alcoholic
15 beverage products, and transactors of the alcoholic beverage have no chance to be involved in the storage and management conditions of the alcoholic beverage products. Even in such a case, the present disclosure allows transactors of the manufacturing unit NFT to specify a category of the storage state as optional information. Accordingly, the present disclosure allows transactors, who has purchased the manufacturing unit NFT, to have a choice of quick-freezing some
20 alcoholic beverage products to secure the value for consumers who prefer fresh alcoholic beverages, and aging some alcoholic beverage products to secure the value for consumers who prefer aged alcoholic beverages, for example, so that the transactors can maintain the asset value of the alcoholic beverage more stably and manage the value.

[0042] Among alcoholic beverages, for example, transaction prices of wine especially rise with
25 the lapse of time. This brings in a rise of its transaction prices in the secondary distribution and enhancement of its asset value. On the contrary, the asset value of sake, beer, umeshu and shochu is unstable compared to that of wine. Further, raising transaction prices of these alcoholic beverage products is difficult because there is no marketplace for their secondary distribution. This leads to their low profitability. Hence, the apparatus of the present embodiment allows the
30 manufacturing unit NFTs of these alcoholic beverage products to be issued, and sold by alcoholic beverage providers, and further to be for resale between other transactors via the manufacturing unit NFT. Therefore, the ultimate rise of their transaction prices can be expected. If the manufacturing unit NFT has the additional function such that a part of the distribution price is paid to the administrator of the apparatus 10 or the alcoholic beverage provider as fees when the
35 manufacturing unit NFT is distributed from one to another for example, the profitability can be

further increased. Since the market price of sake is often low against its product value compared to that of wine, the apparatus of the present embodiment is suitable for supporting transactions via the manufacturing unit NFT of sake products.

[0043] [Second Embodiment]

5 The second embodiment is another example of the alcoholic beverage NFT transaction support apparatus of the present disclosure.

[0044] The alcoholic beverage NFT transaction support apparatus of the present embodiment is the same as the alcoholic beverage NFT transaction support apparatus 10 of the first embodiment of which the reference is applicable, except for including a refilling information acquisition part in addition to the configuration of the apparatus 10 of the first embodiment. The alcoholic beverage NFT transaction support apparatus 10A of the present embodiment includes, for example, a refilling information acquisition part, wherein the refilling information acquisition part acquires refilling information for the manufacturing unit of the alcoholic beverage product associated with the manufacturing unit NFT, the refilling information being information for refilling the manufacturing unit of the alcoholic beverage product into a product unit, the instruction information output part generates refilling instruction information based on the refilling information as the instruction information and outputs the refilling instruction information, the NFT issuance part issues, on a blockchain, a product unit NFT for each product unit of the alcoholic beverage product based on the refilling information, the marketing part releases the product unit NFT on a market, the transaction information acquisition part acquires transaction information of the product unit NFT in the market, and the NFT management part updates owner information of the product unit NFT on the blockchain based on the transaction information.

[0045] FIG. 4 is a block diagram showing an example configuration of the alcoholic beverage NFT transaction support apparatus 10A of the present disclosure. As shown in FIG. 4, the apparatus 10A includes a refilling information acquisition part 18 in addition to the configuration of the apparatus 10 of the first embodiment. A hardware configuration of the apparatus 10A is the same as that of the apparatus 10 in FIG. 2 except that the central processing unit 101 is provided with the configuration of the apparatus 10A in FIG. 4 instead of the configuration of the apparatus 10 in FIG. 1.

[0046] Next, an example of the alcoholic beverage NFT transaction support method according to the present embodiment will be described with reference to the flowchart of FIG. 5. The method according to the present disclosure is performed as follows using the apparatus 10A in FIG. 4, for example. Note that, the method according to the present disclosure is not limited to the use of the apparatus 10A of FIG. 4. Further, S11 to S18 in the following description may be

executed, for example, simultaneously with S1 to S7 in the first embodiment, sequentially, or in parallel.

[0047] The refilling information acquisition part 18 acquires refilling information for the manufacturing unit of the alcoholic beverage product associated with the manufacturing unit

5 NFT (S11, acquiring refilling information). The refilling information is, for example, information for refilling the manufacturing unit of the alcoholic beverage product into a product unit. The product unit is, for example, a unit in which the alcoholic beverage product of the manufacturing unit is filled into a container to be a transaction target. The type of the container to be the transaction target is not particularly limited, and may be, for example, a barrel, a glass bottle, a
10 can, or a bottle. Further, the material of the container is not particularly limited, and any material may be used. Specific examples of the material include glass materials such as glass and crystal glass; minerals such as quartz; metals such as stainless steel, aluminum, titanium, and tin; plastics such as PET (polyethylene terephthalate), PP (polypropylene), and PE (polyethylene); wood; and bamboo. The refilling information includes, for example, information specifying the
15 type of the container, information specifying the material of the container, information specifying a filling volume per unit container, information specifying a refilling quantity per unit container, and the like. The refilling information may be, for example, information specifying refilling into one type of product unit with respect to the manufacturing unit, or may be information specifying refilling into a plurality of types of product units. The refilling information acquisition
20 part 18 may acquire, for example, the refilling information input by a user during transaction processing in the marketplace, or may acquire refilling information separately input (purchased) by a user who has conducted a transaction of the manufacturing unit NFT. Accordingly, the refilling information acquisition part 18 can acquire the refilling information. The refilling information may be, for example, optional information selectable (purchasable) by a transactor at
25 the time of a transaction of the manufacturing unit NFT. The refilling information acquisition part 18 may store, for example, the acquired refilling information in the memory 102 or the storage 104 in association with the manufacturing unit NFT associated with the corresponding alcoholic beverage product. Further, the NFT management part 15 may store, for example, the acquired refilling information on the blockchain in association with the manufacturing unit NFT.

30 [0048] Next, the instruction information output part 17 generates refilling instruction information based on the refilling information as the instruction information, and outputs the refilling instruction information (S12, outputting instruction information). An output destination of the refilling instruction information may be, for example, a provider of the alcoholic beverage product, an administrator of the apparatus 10A, or a custodian of the alcoholic beverage product.
35 The delivery agent and the custodian are, for example, preferred to be the ones designated by the

administrator. S12 may also be referred to as outputting refilling instruction information.

[0049] The administrator (the provider, the administrator, or the custodian) of the alcoholic beverage product to whom the refilling instruction information is output performs refilling of the manufacturing unit of the alcoholic beverage product corresponding to the manufacturing unit
5 NFT into a product unit, based on the refilling instruction information.

[0050] Based on the refilling information, for example, the NFT issuance part 12 then issues product unit NFT on a blockchain for each product unit of the alcoholic beverage product (S13, issuing an NFT). First, the NFT issuance part 12 generates, for example, product unit
10 identification information for each product unit to be refilled from the manufacturing unit, based on the refilling information. Specifically, the NFT issuance part 12 specifies, for example, the number of product units to be refilled based on the refilling information, and assigns product unit identification information that enables identification of each of the product units corresponding to the specified quantity. Then, the NFT issuance part 12 generates, for example, a product unit
15 product unit NFT is, for example, an NFT (Non-Fungible Token) associated on a one-to-one basis with a product unit specified by the product unit identification information. The NFT has an original identifier that allows distinction between the NFT and other NFTs, and thus can have its own value distinguished from other NFTs. Specifically, the NFT issuance part 12 can store the product unit NFT in each of nodes 31 on a blockchain network 30 connected to the apparatus 10
20 via a communication line network 20, to issue the product unit NFT on the blockchain. The blockchain on which the product unit NFT is issued may be, for example, the same as or different from the blockchain on which the manufacturing unit NFT is issued in S2. The NFT issuance part 12 may, for example, further record information on the alcoholic beverage product associated with the product unit NFT on the blockchain network 30. The NFT issuance part 12
25 may store, for example, the product unit NFT in the memory 102 or the storage 104. In this case, the NFT issuance part 12 may store product unit identification information of the product unit of the alcoholic beverage product corresponding to the product unit NFT in association with the product unit NFT. Note that, while each of the nodes 31 on the blockchain network 30 is described as a terminal different from the terminal of the alcoholic beverage provider 40 and the
30 terminal of the transactor 50 in FIG. 4, the whole or a part of the terminal of the alcoholic beverage provider 40 and the terminal of the transactor 50 may function as the node 31 on the blockchain network 30.

[0051] Further, the NFT issuance part 12 may, for example, record, based on the refilling information, the manufacturing unit NFT associated with the manufacturing unit identification
35 information that specifies a manufacturing unit from which the product unit has been refilled, in

association with the product unit NFT of the product unit. Accordingly, for example, the manufacturing unit from which the product unit has been refilled can be specified from the product unit NFT, and various types of information associated with the manufacturing unit NFT can be inherited by the product unit NFT.

5 [0052] The product unit NFT may include, for example, an additional program that realizes an additional function. The additional program is not particularly limited, and for example, a program for realizing a system such that a part of the distribution price is paid to the administrator of the apparatus 10A or the alcoholic beverage provider as fees when the product unit NFT is distributed from one to another. The product unit NFT may further include content
10 information such as illustrations and other images, music, and the like, for example.

[0053] The market part 13 releases the product unit NFT on a market (S14, marketing a product unit NFT). The market may be the same as or different from the market in S3 of the first embodiment. The processing in S14 can be carried out in the same manner as the processing in S3 of the first embodiment, except that the product unit NFT is released instead of the
15 manufacturing unit NFT. The market part 13 may, for example, release the optional information described below on the market so that a transactor of the product unit token information can select the optional information on the market.

[0054] The transaction information acquisition part 14 acquires transaction information of the product unit NFT in the market (S15, acquiring transaction information). The processing in S15
20 can be carried out in the same manner as the processing in S4 of the first embodiment, except that the transaction information of the product unit NFT is acquired instead of the transaction information of the manufacturing unit NFT. Regarding the transaction information, reference can be made to the description of the first embodiment.

[0055] An NFT management part 15 updates owner information of the product unit NFT on the
25 blockchain, based on the transaction information (S16, managing an NFT). The processing in S16 can be carried out in the same manner as the processing in S5 of the first embodiment, except that the owner information of the product unit NFT instead of the owner information of the manufacturing unit NFT is updated.

[0056] Next, the optional information acquisition part 16 acquires optional information on the
30 product unit of the alcoholic beverage product in association with the product unit NFT (S17 acquiring optional information). The processing in S17 can be carried out in the same manner as the processing in S6 of the first embodiment, except that the optional information of the product unit NFT instead of the optional information of the manufacturing unit NFT is acquired. The optional information is information selectable by a transactor in a transaction of the product unit
35 NFT, and is information for instructing a management state of a product unit, which is selectable

by the transactor of the product unit NFT. Accordingly, the optional information may also be referred to as selection instruction information.

[0057] The optional information is, for example, information on options that can be selected by a purchaser in a transaction of the product unit NFT. A specific example of the optional

5 information is information on how to handle (management, storage state, and delivery) the product unit of the alcoholic beverage product specified by the product unit identification information associated with the product unit NFT. The optional information includes, for example, information on storage of the product unit of the alcoholic beverage product (storage temperature, a storage place, a storage period). The information on the storage state may be, for
10 example, information specifically specifying temperature, humidity, lightness of the storage place, storage conditions (management conditions) of the storage container or the like, a storage period, or the like, or may be information specifying a category of the storage state (management state) such as freezing, quick-freezing, (also referred to as flash-freezing), refrigeration, storage at a room temperature, and aging. In the latter case, the apparatus 10A is, for example, preferred
15 to store the combination of a category of the storage state and the corresponding information on specific storage conditions in the storage part, for each type of alcoholic beverage product.

[0058] The optional information may include, for example, information on delivery of the product unit of the alcoholic beverage product (a delivery agent, a delivery period, delivery conditions (temperature conditions such as refrigeration, freezing, a room temperature, or the
20 like), a delivery destination, or the like). The information on delivery of the product unit of the alcoholic beverage product may be, for example, simultaneously acquired with the information on storage of the product unit of the alcoholic beverage product, or may be separately acquired. In the latter case, the optional information including the information on delivery is also referred to as delivery request information, for example. The owner of the product unit NFT may be, for
25 example, able to request delivery of the product unit of the alcoholic beverage product associated with the product unit NFT he/she owns, at any timing or only within a preset validity term of the product unit NFT.

[0059] The instruction information output part 17 generates instruction information based on the optional information, and outputs the instruction information (S18 outputting instruction
30 information). The processing in S18 can be carried out in the same manner as the processing in S7 of the first embodiment. Regarding the instruction information, reference can be made to the description of the first embodiment.

[0060] When the optional information includes the information on storage of the product unit of the alcoholic beverage product, the instruction information output part 17 can, for example,
35 generate product management instruction information as the instruction information, based on

the optional information. Specifically, when the optional information includes specific information on the storage state of the product unit of the alcoholic beverage product, the instruction information output part 17 can, for example, generate the information on the storage conditions as the instruction information. When the optional information is the information specifying a category of the storage state, the instruction output part 17 can refer to the storage part, refer to the storage conditions associated with the category of the storage state corresponding to the alcoholic beverage product purchased by the purchaser, and generate and output the information on the storage conditions as the instruction information. An output destination of the instruction information may be a provider of the alcoholic beverage product, an administrator of the apparatus 10A, a delivery agent, or a custodian of the alcoholic beverage product, for example. The delivery agent and the custodian are, for example, preferred to be the ones designated by the administrator. Also, the instruction information output part 17 may, for example, output the instruction information to a storage for storing the product unit of the alcoholic beverage product. By outputting the instruction information to the storage, the instruction information output part 17 can cause storage conditions of the storage in which the product unit is stored to be changed in accordance with the instruction information.

[0061] An administrator (for example, the provider, custodian, or the like) of the product unit of the alcoholic beverage product, to whom the instruction information is output, can change the storage state of the product unit of the alcoholic beverage product based on the instruction information. The storage state can be, for example, changed by the administrator him/herself or someone who received an instruction from the administrator of the alcoholic beverage product (e.g., a delivery agent, a distribution agent, and a storage agent). Then, the administrator can, for example, transmit information on the storage state of the alcoholic beverage product as management information to the apparatus 10A from the terminal of the provider (terminal 40).

The instruction information output part 17 of the apparatus 10A can, for example, acquire the transmitted management information, and output the management information in association with the corresponding product unit NFT. The output may be, for example, performed directly to a terminal of the provider, a transactor, a purchaser, or the like, or may be performed so that the management information be browsable on the blockchain marketplace. Thus, the purchaser of the product unit NFT (owner of the alcoholic beverage product) can check the management information of the product unit of the alcoholic beverage product via the apparatus 10A. Note that acquisition of the management information is not limited thereto, and the apparatus 10A may, for example, acquire storage information of the product unit of the corresponding alcoholic beverage product as the management information by a camera or various sensors provided in a storage facility of the product unit of the alcoholic beverage product.

[0062] When the optional information includes the information on delivery of the product unit of the alcoholic beverage product, the instruction information output part 17 generates, for example, a delivery instruction based on the optional information and outputs the delivery instruction information. Specifically, the instruction information output part 17 generates, for example, the delivery instruction for arranging delivery of the alcoholic beverage product, based on the information on delivery of the product unit of the alcoholic beverage product (a delivery agent, a delivery period, delivery conditions (temperature conditions such as refrigeration, freezing, and a room temperature), a delivery destination, or the like). Then, the instruction information output part 17 can output the delivery instruction to the terminal of the provider, the administrator, a delivery agent, a warehouse management agent, a distribution agent, or the like.

[0063] The administrator of the alcoholic beverage product who has received the instruction information, for example, arranges shipping of the alcoholic beverage product based on the delivery instruction. The shipping may be, for example, arranged by the administrator him/herself or someone who has received an instruction from the administrator (e.g., a delivery agent, a distribution agent, and a storage agent). The administrator can, for example, then transmit information on the delivery status of the alcoholic beverage product as the management information to the apparatus 10A from the terminal of the administrator (terminal 40). The instruction information output part 17 of the apparatus 10A can, for example, acquire the transmitted management information and output the management information in association with the corresponding product unit NFT. The output may be, for example, direct output to a terminal of the provider, a transactor, a purchaser, or the like, or may be output with which the management information is browsable on the blockchain marketplace. Thus, the purchaser of the product unit NFT (owner of the alcoholic beverage product) can check the delivery status of the alcoholic beverage product via the apparatus 10A.

[0064] The alcoholic beverage NFT transaction support apparatus of the present embodiment can, for example, acquire, by a refilling information acquisition part, refilling information for the manufacturing unit of the alcoholic beverage product associated with the manufacturing unit NFT, and output refilling instruction information for refilling the manufacturing unit into a product unit. Accordingly, for example, a transactor who has purchased a manufacturing unit NFT corresponding to a manufacturing unit of the alcoholic beverage product can refill the manufacturing unit (for example, alcoholic beverage in a barrel as a unit) associated with the manufacturing unit NFT owned by the transactor into freely selected product units (for example, alcoholic beverage in a glass bottle as a unit). Further, in this case, for example, since the type of a container into which the product unit is refilled can be specified as the refilling information, the transactor can prepare product units in accordance with demands of assumed consumers, thereby

making it possible to more appropriately manage a market value of the alcoholic beverage product.

[0065] The alcoholic beverage NFT transaction support apparatus of the present embodiment allows issuing product unit NFT associated on a one-to-one basis with a product unit of the alcoholic beverage product based on the refilling information, and recording a transaction of the product unit NFT with a blockchain network. A product unit NFT issued by the apparatus of the present embodiment, for example, is associated on a one-to-one basis with a product unit specified by the product unit identification information. Therefore, the apparatus of the present embodiment allows indirect transactions of product units of alcoholic beverage products through transactions of the product unit NFT. The product unit NFT and the product unit identification information are in a one-to-one relationship. It is possible to record their transaction history and information on the product unit of the alcoholic beverage product associated with the product unit NFT, on a blockchain network. Accordingly, it is possible to secure authenticity and value of alcoholic beverage products for transactions.

[0066] Furthermore, the alcoholic beverage NFT transaction support apparatus of the present embodiment allows a transactor of the product unit NFT to specify a category of the storage state as optional information. Accordingly, the present disclosure allows a transactor, who has purchased the product unit NFT, to have a choice of quick-freezing some alcoholic beverage products to secure the value for consumers who prefer fresh alcoholic beverages, and aging some alcoholic beverage products to secure the value for consumers who prefer aged alcoholic beverages, for example, so that the transactor can maintain the asset value of the alcoholic beverage more stably and manage the value.

[0067] [Third Embodiment]

The third embodiment is an example of the use of the alcoholic beverage NFT transaction support apparatus 10 (10A) of the first and the second embodiments.

[0068] The present embodiment describes an example case assuming that the alcoholic beverage product is sake, and a brewery that is the alcoholic beverage provider uses the apparatus 10 and generates a manufacturing unit NFT of a sake product (barrel unit NFT) to support a transaction of the manufacturing unit of the alcoholic beverage product via the barrel unit NFT. However, the present disclosure is by no means limited thereto. As described above, the apparatus 10 can be used to support transactions of various alcoholic beverage products, and is not limited to sake.

[0069] Firstly, an issuance requester of the barrel unit NFT (e.g., an employee of a brewery that is the alcoholic beverage provider, and an administrator of the apparatus 10 who is commissioned by the alcoholic beverage provider), for example, accesses the apparatus 10 from

a terminal of the requester 40, and inputs NFT issuance request information of the manufactured sake to perform an issuance request of the barrel unit NFT. FIG. 6 shows an example display on the terminal 40 that has accessed the apparatus 10. Note that the example display of FIG. 6 is merely an example that by no means limits the present disclosure. The issuance requester of the barrel unit NFT, for example, inputs necessary information to each item (a product image, a product name, a product description, a link to a detail page, detail information, collection, the number of editions, blockchain, or the like) in the display shown in FIG. 6 as the NFT issuance request information, to request issuance of the barrel unit NFT.

[0070] The apparatus 10 issues the barrel unit NFT (manufacturing unit NFT) associated on a one-to-one basis with the manufacturing unit identification information on a blockchain. A marketing part 13 of the apparatus 10 then releases the registered barrel unit NFT on a blockchain marketplace. FIG. 7 shows an example display of the NFT market released by the apparatus 10. However, the example display of FIG. 7 is merely an example that by no means limits the present disclosure. As shown in FIG. 7, the released barrel unit NFT (sake 1#111) can be, for example, searched with a function of the marketplace, and can be listed with a search operation by a user. The search is not particularly limited and may be, for example, a keyword search, a price search, a tag search, or the like. The marketplace may also have, for example, a tag search function, a sort function, and a filter function, or the like. The marketplace may also have a function, for example, for counting and showing the number of views, likes, or the like of each barrel unit NFT. Further, the marketplace may have a function for showing ranking of barrel unit NFTs based on their transaction results (a turnover, a price, a price fluctuation range, views, likes, or the like), for example. In this case, tabulation for the ranking may be, for example, performed in each condition such as types of the blockchain, production areas, and transaction periods, for example.

[0071] A transactor who wants to purchase a sake barrel via the apparatus 10 accesses the blockchain marketplace released by the apparatus 10 from a terminal of the transactor 50 to view the barrel unit NFTs released as shown in FIG. 7. The transactor who wants to purchase the barrel unit NFT he/she viewed, performs purchase processing of the barrel unit NFT on the blockchain marketplace. When the released barrel unit NFT is purchased on the blockchain marketplace, the apparatus 10 acquires transaction information of the barrel unit NFT from the blockchain marketplace, and based on the transaction information, updates owner information of the barrel unit NFT on the blockchain network from the alcoholic beverage provider to the transactor.

[0072] If the transactor selects, when purchasing the barrel unit NFT, aging storage for 10 years as an optional information on the storage state of the sake barrel, for example, the apparatus 10

acquires the optional information. Thereafter, the apparatus 10 generates and outputs instruction information for instructing transfer of the sake product corresponding to the purchased barrel unit NFT to a warehouse for aging storage. A destination of the output may be an administrator of the apparatus 10 or a manufacturer (brewery) of the sake product, as described above. Based on the instruction information, the administrator or the brewery then ships the sake product to a storage facility, and stores the sake product at the storage facility. While an owner or an administrator of the storage facility may be the same as or different from the administrator of the apparatus 10 or the brewery, the facility is preferred to be managed by the administrator of the apparatus 10. The apparatus 10 can acquire management information on the storage state of the sake product from the freezing warehouse, and output the acquired information to make the information be browsable on the blockchain marketplace. The management information may be, for example, information on an identification number of the barrel unit NFT (token ID), a storage place, a shipping deadline, a warehousing date, delivery status, or the like.

[0073] If the transactor wants to conduct a transaction of his/her own barrel unit NFT via the apparatus 10, the transactor accesses the apparatus 10 from his/her terminal 50, and inputs exhibition information for the blockchain marketplace. The marketing part 13 of the apparatus 10 releases, for example, the exhibition information on the blockchain marketplace. In this way, the transactor can conduct a transaction of his/her own barrel unit NFT via the apparatus 10.

[0074] If the transactor needs to ship the sake barrel associated with his/her own barrel unit NFT, the transactor accesses the apparatus 10 from the terminal of the transactor 50 and inputs information on delivery of the sake product as the optional information. The apparatus 10 acquires the optional information on the delivery, generates a delivery instruction based on the optional information, and outputs the delivery instruction to a terminal of a warehouse administrator who manages the storage facility. The administrator of the storage facility performs shipping processing of the sake barrel corresponding to the barrel unit NFT based on the delivery instruction. In this way, the transactor can deliver the sake barrel associated with his/her own barrel unit NFT.

[0075] Further, when the transactor inputs refilling information upon purchasing a barrel unit NFT (for example, specifying refilling into a glass bottle unit as an option), the apparatus 10 acquires the refilling information. The apparatus 10 generates and outputs refilling instruction information based on the refilling information, specifies, from the refilling information, the number of product units to be refilled, and assigns product unit identification information that allows each of the specified number of product units to be individually identifiable. Then, the apparatus 10 issues a glass bottle unit NFT (product unit NFT) associated on a one-to-one basis with the product unit identification information, and grants the issued glass bottle unit NFT to

the owner of the barrel unit NFT. The marketing part 13 of the apparatus 10 then releases the registered glass bottle unit NFT on a blockchain marketplace. The released glass bottle unit NFT can be, for example, searched with a function of the marketplace, and can be listed with a search operation by a user. The search is not particularly limited and may be, for example, a keyword
5 search, a price search, a tag search, or the like. The marketplace may also have, for example, a tag search function, a sort function, and a filter function, or the like. The marketplace may also have a function, for example, for counting and showing the number of views, likes, or the like of each glass bottle unit NFT. Further, the marketplace may have a function for showing ranking of glass bottle unit NFTs based on their transaction results (a turnover, a price, a price fluctuation
10 range, views, likes, or the like), for example. In this case, tabulation for the ranking may be, for example, performed in each condition such as types of the blockchain, production areas, and transaction periods, for example.

[0076] A transactor who wants to purchase sake via the apparatus 10 accesses the blockchain marketplace released by the apparatus 10 from a terminal of the transactor 50 to view the glass
15 bottle unit NFTs released. The transactor who wants to purchase the glass bottle unit NFT he/she viewed, performs purchase processing of the glass bottle unit NFT on the blockchain marketplace. When the released glass bottle unit NFT is purchased on the blockchain marketplace, the apparatus 10 acquires transaction information of the glass bottle unit NFT from the blockchain marketplace, and based on the transaction information, updates owner
20 information of the glass bottle unit NF on the blockchain network from the owner of the barrel unit NFT to a new transactor.

[0077] If the transactor selects, when purchasing the glass bottle unit NFT, aging storage for 10 years as an optional information on the storage state of the sake barrel, for example, the apparatus 10 acquires the optional information. Thereafter, the apparatus 10 generates and
25 outputs instruction information for instructing transfer of the sake product corresponding to the purchased glass bottle unit NFT to a warehouse for aging storage. A destination of the output may be an administrator of the apparatus 10 or a manufacturer (brewery) of the sake product, as described above. Based on the instruction information, the administrator or the brewery then ships the sake product to a storage facility, and stores the sake product at the storage facility.
30 While an owner or an administrator of the storage facility may be the same as or different from the administrator of the apparatus 10 or the brewery, the facility is preferred to be managed by the administrator of the apparatus 10. The apparatus 10 can acquire management information on the storage state of the sake product from the freezing warehouse, and output the acquired information to make the information be browsable on the blockchain marketplace. The
35 management information may be, for example, information on an identification number of the

glass bottle unit NFT (token ID), a storage place, a shipping deadline, a warehousing date, delivery status, or the like.

[0078] If the transactor wants to conduct a transaction of his/her own glass bottle unit NFT via the apparatus 10, the transactor accesses the apparatus 10 from his/her terminal 50, and inputs exhibition information for the blockchain marketplace. The marketing part 13 of the apparatus 10 releases, for example, the exhibition information on the blockchain marketplace. In this way, the transactor can conduct a transaction of his/her own glass bottle unit NFT via the apparatus 10.

[0079] If the transactor needs to ship the sake associated with his/her own glass bottle unit NFT, the transactor accesses the apparatus 10 from the terminal of the transactor 50 and inputs information on delivery of the sake product as the optional information. The apparatus 10 acquires the optional information on the delivery, generates a delivery instruction based on the optional information, and outputs the delivery instruction to a terminal of an administrator who manages the storage facility. The administrator of the storage facility performs shipping processing of the sake barrel corresponding to the glass bottle unit NFT based on the delivery instruction. In this way, the transactor can deliver the sake product associated with his/her own glass bottle unit NFT.

[0080] [Fourth Embodiment]

The program of the present embodiment is a program for causing a computer to execute each of the processes in the alcoholic beverage NFT transaction support method described above.

Specifically, the program of the present embodiment is a program for causing a computer to execute an NFT issuance request acquisition procedure, an NFT issuance procedure, a marketing procedure, a transaction information acquisition procedure, an NFT management procedure, an optional information acquisition procedure, and an instruction information output procedure.

[0081] The NFT issuance request acquisition procedure includes acquiring manufacturing unit NFT issuance request information, the manufacturing unit NFT issuance request information including manufacturing unit identification information of an alcoholic beverage product, the NFT issuance procedure includes issuing, on a blockchain, a manufacturing unit NFT for each manufacturing unit of the alcoholic beverage product specified by the manufacturing unit identification information, based on the manufacturing unit NFT issuance request information, the marketing procedure includes releasing the manufacturing unit NFT on a market, the transaction information acquisition procedure includes acquiring transaction information of the manufacturing unit NFT in the market, the NFT management procedure includes updating owner information of the manufacturing unit NFT on the blockchain based on the transaction information, the optional information acquisition procedure includes acquiring optional information on the manufacturing unit of the alcoholic beverage product in association with the

manufacturing unit NFT, the optional information including information on storage of the manufacturing unit of the alcoholic beverage product, and the instruction information output procedure includes generating instruction information based on the optional information, the instruction information including product management instruction information based on the optional information, and outputting the instruction information including the product management instruction information.

[0082] The program of the present embodiment can also be regarded as a program that causes a computer to function as the NFT issuance request acquisition procedure, the NFT issuance procedure, the marketing procedure, the transaction information acquisition procedure, the NFT management procedure, the optional information acquisition procedure, and the instruction information output procedure.

[0083] Regarding the program of the present embodiment, reference can be made to the descriptions of the apparatus and the method of the present disclosure. In each of the procedures, for example, "procedure" and "processing" can be interchangeably used. The program of the present embodiment may be, for example, recorded in a computer-readable recording medium. The recording medium is, for example, a non-transitory computer-readable recording medium (storage medium). The recording medium is not particularly limited and examples thereof include a random access memory (RAM), a read only memory (ROM), a hard disk (HD), a flash memory (e.g., SSD (Solid State Drive), a USB flash memory, and a SD/SDHC card), an optical disc (e.g., CD-R/CD-RW, DVD-R/DVD-RW, and BD-R/BD-RE), a magneto-optical disk (MO), and a FLOPPY[®] (registered trademark) disk (FD). The program (may be referred to as a programming product or a program product, for example) of the present embodiment may be, for example, distributed from an external computer. The "distribution" may be distribution via a communication line network or distribution via a wired-connected device. The program of the present embodiment may be executed by being installed in a device where the program is distributed, or may be executed without being installed.

[0084] While the present disclosure has been described above with reference to illustrative embodiments, the present disclosure is by no means limited thereto. Various changes and variations that may become apparent to those skilled in the art may be made in the configuration and specifics of the present disclosure.

[0085] This application claims priority from Japanese Patent Application No. 2023-132180 filed on August 14, 2023. The entire subject matter of the Japanese Patent Application is incorporated herein by reference.

[0086] <Supplementary Note>

The whole or part of the example embodiments disclosed above can be described as, but

not limited to, the following supplementary notes.

(Supplementary Note 1)

An alcoholic beverage NFT transaction support apparatus, including:

an NFT issuance request acquisition part;

5 an NFT issuance part;

a marketing part;

a transaction information acquisition part;

an NFT management part;

an optional information acquisition part; and

10 an instruction information output part, wherein

the NFT issuance request acquisition part acquires manufacturing unit NFT issuance request information, the manufacturing unit NFT issuance request information including manufacturing unit identification information of an alcoholic beverage product,

the NFT issuance part issues, on a blockchain, a manufacturing unit NFT for each
15 manufacturing unit of the alcoholic beverage product specified by the manufacturing unit identification information, based on the manufacturing unit NFT issuance request information,

the marketing part releases the manufacturing unit NFT on a market,

the transaction information acquisition part acquires transaction information of the manufacturing unit NFT in the market,

20 the NFT management part updates owner information of the manufacturing unit NFT on the blockchain based on the transaction information,

the optional information acquisition part acquires optional information on the manufacturing unit of the alcoholic beverage product in association with the manufacturing unit NFT, the optional information including information on storage of the manufacturing unit of the

25 alcoholic beverage product, and

the instruction information output part generates instruction information based on the optional information, the instruction information including product management instruction information based on the optional information, and outputs the instruction information including the product management instruction information.

30 (Supplementary Note 2)

The apparatus according to Supplementary Note 1, wherein

the marketing part acquires exhibition information from an owner of the manufacturing unit NFT and releases the exhibition information on the market,

the transaction information acquisition part acquires transaction information of the

35 manufacturing unit NFT in the market based on the exhibition information, and

the NFT management part updates owner information of the manufacturing unit NFT on the blockchain based on the transaction information.

(Supplementary Note 3)

The apparatus according to Supplementary Note 1 or 2, wherein

- 5 the optional information includes information on delivery of the manufacturing unit of the alcoholic beverage product, and
the instruction information output part generates delivery instruction information based on the optional information as the instruction information and outputs the delivery instruction information.

10 (Supplementary Note 4)

The apparatus according to any one of Supplementary Notes 1 to 3, wherein
the instruction information output part acquires management information of the manufacturing unit of the alcoholic beverage product for which the instruction information is output, and
outputs the management information in association with the corresponding manufacturing unit
15 NFT.

(Supplementary Note 5)

The apparatus according to any one of Supplementary Notes 1 to 4, wherein

- the information on storage includes information specifying a category of a storage state,
and the category includes at least one category selected from the group consisting of freezing,
20 quick-freezing, refrigeration, storage at a room temperature, and aging.

(Supplementary Note 6)

The apparatus according to any one of Supplementary Notes 1 to 5, including:

a refilling information acquisition part, wherein

- the refilling information acquisition part acquires refilling information for the
25 manufacturing unit of the alcoholic beverage product associated with the manufacturing unit NFT, the refilling information being information for refilling the manufacturing unit of the alcoholic beverage product into a product unit, and

- the instruction information output part generates refilling instruction information based
on the refilling information as the instruction information and outputs the refilling instruction
30 information.

(Supplementary Note 7)

The apparatus according to Supplementary Note 6, wherein

- the NFT issuance part issues, on a blockchain, a product unit NFT for each product unit
of the alcoholic beverage product based on the refilling information,
35 the marketing part releases the product unit NFT on a market,

the transaction information acquisition part acquires transaction information of the product unit NFT in the market, and

the NFT management part updates owner information of the product unit NFT on the blockchain based on the transaction information.

5 (Supplementary Note 8)

The apparatus according to Supplementary Note 7, wherein

the optional information acquisition part acquires optional information on a product unit of the alcoholic beverage product in association with the product unit NFT,

10 the optional information includes information on storage of the product unit of the alcoholic beverage product, and

the instruction information output part generates instruction information based on the optional information, the instruction information including product management instruction information based on the optional information, and outputs the instruction information including the product management instruction information.

15 (Supplementary Note 9)

The apparatus according to Supplementary Note 7 or 8, wherein

the optional information includes information on delivery of the product unit of the alcoholic beverage product, and

20 the instruction information output part generates delivery instruction information based on the optional information as the instruction information and outputs the delivery instruction information.

(Supplementary Note 10)

The apparatus according to Supplementary Note 8 or 9, wherein

25 the instruction information output part acquires management information of a product unit of the alcoholic beverage product for which the instruction information is output, and outputs the management information in association with the corresponding product unit NFT.

(Supplementary Note 11)

The apparatus according to any one of Supplementary Notes 8 to 10, wherein

30 the information on storage includes information specifying a category of a storage state, and the category includes at least one category selected from the group consisting of freezing, quick-freezing, refrigeration, storage at a room temperature, and aging.

(Supplementary Note 12)

An alcoholic beverage NFT transaction support method, including:

acquiring NFT issuance request;

35 issuing an NFT;

marketing the NFT;
acquiring transaction information;
managing the NFT;
acquiring optional information; and

- 5 outputting instruction information, wherein
the acquiring NFT issuance request includes acquiring manufacturing unit NFT issuance request information, the manufacturing unit NFT issuance request information including manufacturing unit identification information of an alcoholic beverage product,
the issuing the NFT includes issuing, on a blockchain, a manufacturing unit NFT for each
10 manufacturing unit of the alcoholic beverage product specified by the manufacturing unit identification information, based on the manufacturing unit NFT issuance request information,
the marketing the NFT includes releasing the manufacturing unit NFT on a market,
the acquiring transaction information includes acquiring transaction information of the manufacturing unit NFT in the market,
15 the managing the NFT includes updating owner information of the manufacturing unit NFT on the blockchain based on the transaction information,
the acquiring optional information includes acquiring optional information on the manufacturing unit of the alcoholic beverage product in association with the manufacturing unit NFT, the optional information including information on storage of the manufacturing unit of the alcoholic
20 beverage product, and
the outputting instruction information includes
generating instruction information based on the optional information, the instruction information including product management instruction information based on the optional information, and
outputting the instruction information including the product management instruction
25 information.

(Supplementary Note 13)

The method according to Supplementary Note 12, wherein

the marketing the NFT includes acquiring exhibition information from an owner of the manufacturing unit NFT and releasing the exhibition information on the market,

- 30 the acquiring transaction information includes acquiring transaction information of the manufacturing unit NFT in the market based on the exhibition information, and

the managing the NFT includes updating owner information of the manufacturing unit NFT on the blockchain based on the transaction information.

(Supplementary Note 14)

- 35 The method according to Supplementary Note 12 or 13, wherein

the optional information includes information on delivery of the manufacturing unit of the alcoholic beverage product, and

the outputting instruction information includes generating delivery instruction information based on the optional information as the instruction information and outputting the delivery instruction information.

(Supplementary Note 15)

The method according to any one of Supplementary Notes 12 to 14, wherein

the outputting instruction information includes acquiring management information of the manufacturing unit of the alcoholic beverage product for which the instruction information is output, and outputting the management information in association with the corresponding manufacturing unit NFT.

(Supplementary Note 16)

The method according to any one of Supplementary Notes 12 to 15, wherein

the information on storage includes information specifying a category of a storage state, and the category includes at least one category selected from the group consisting of freezing, quick-freezing, refrigeration, storage at a room temperature, and aging.

(Supplementary Note 17)

The method according to any one of Supplementary Notes 12 to 16, including:

acquiring refilling information, wherein

the acquiring refilling information includes acquiring refilling information for the manufacturing unit of the alcoholic beverage product associated with the manufacturing unit NFT, the refilling information being information for refilling the manufacturing unit of the alcoholic beverage product into a product unit, and

the outputting instruction information includes generating refilling instruction information based on the refilling information as the instruction information and outputting the refilling instruction information.

(Supplementary Note 18)

The method according to Supplementary Note 17, wherein

the issuing the NFT includes issuing, on a blockchain, a product unit NFT for each product unit of the alcoholic beverage product based on the refilling information,

the marketing the NFT includes releasing the product unit NFT on a market,

the acquiring transaction information includes acquiring transaction information of the product unit NFT in the market, and

the managing the NFT includes updating owner information of the product unit NFT on the blockchain based on the transaction information.

(Supplementary Note 19)

The method according to Supplementary Note 18, wherein

the acquiring optional information includes acquiring optional information on a product unit of the alcoholic beverage product in association with the product unit NFT,

5 the optional information includes information on storage of the product unit of the alcoholic beverage product,

the outputting instruction information includes generating instruction information based on the optional information, the instruction information including product management instruction information based on the optional information, and
10 outputting the instruction information including the product management instruction information.

(Supplementary Note 20)

The method according to Supplementary Note 18 or 19, wherein

15 the optional information includes information on delivery of the product unit of the alcoholic beverage product, and

the outputting instruction information includes generating delivery instruction information based on the optional information as the instruction information and outputting the delivery instruction information.

(Supplementary Note 21)

20 The method according to Supplementary Note 19 or 20, wherein

the outputting instruction information includes acquiring management information of a product unit of the alcoholic beverage product for which the instruction information is output, and outputting the management information in association with the corresponding product unit NFT.

25 (Supplementary Note 22)

The method according to any one of Supplementary Notes 19 to 21, wherein

the information on storage includes information specifying a category of a storage state, and the category includes at least one category selected from the group consisting of freezing, quick-freezing, refrigeration, storage at a room temperature, and aging.

30 (Supplementary Note 23)

An alcoholic beverage NFT transaction support program for causing a computer to execute procedures, including:

an NFT issuance request acquisition procedure;

an NFT issuance procedure;

35 a marketing procedure;

a transaction information acquisition procedure;
an NFT management procedure;
an optional information acquisition procedure; and
an instruction information output procedure, wherein

- 5 the NFT issuance request acquisition procedure includes acquiring manufacturing unit NFT issuance request information, the manufacturing unit NFT issuance request information including manufacturing unit identification information of an alcoholic beverage product, the NFT issuance procedure includes issuing, on a blockchain, a manufacturing unit NFT for each manufacturing unit of the alcoholic beverage product specified by the manufacturing unit
- 10 identification information, based on the manufacturing unit NFT issuance request information, the marketing procedure includes releasing the manufacturing unit NFT on a market, the transaction information acquisition procedure includes acquiring transaction information of the manufacturing unit NFT in the market, the NFT management procedure includes updating owner information of the manufacturing unit
- 15 NFT on the blockchain based on the transaction information, the optional information acquisition procedure includes acquiring optional information on the manufacturing unit of the alcoholic beverage product in association with the manufacturing unit NFT, the optional information including information on storage of the manufacturing unit of the alcoholic beverage product, and
- 20 the instruction information output procedure includes generating instruction information based on the optional information, the instruction information including product management instruction information based on the optional information, and outputting the instruction information including the product management instruction information.

25 (Supplementary Note 24)

The program according to Supplementary Note 23, wherein

the marketing procedure includes acquiring exhibition information from an owner of the manufacturing unit NFT and releasing the exhibition information on the market,

- the transaction information acquisition procedure includes acquiring transaction
- 30 information of the manufacturing unit NFT in the market based on the exhibition information, and

the NFT management procedure includes updating owner information of the manufacturing unit NFT on the blockchain based on the transaction information.

(Supplementary Note 25)

- 35 The program according to Supplementary Note 23 or 24, wherein

the optional information includes information on delivery of the manufacturing unit of the alcoholic beverage product, and

the instruction information output procedure includes generating delivery instruction information based on the optional information as the instruction information and outputting the delivery instruction information.

(Supplementary Note 26)

The program according to any one of Supplementary Notes 23 to 25, wherein

the instruction information output procedure includes acquiring management information of the manufacturing unit of the alcoholic beverage product for which the instruction information is output, and outputting the management information in association with the corresponding manufacturing unit NFT.

(Supplementary Note 27)

The program according to any one of Supplementary Notes 23 to 26, wherein

the information on storage includes information specifying a category of a storage state, and the category includes at least one category selected from the group consisting of freezing, quick-freezing, refrigeration, storage at a room temperature, and aging.

(Supplementary Note 28)

The program according to any one of Supplementary Notes 23 to 27, including:

a refilling information acquisition procedure,

the refilling information acquisition procedure includes acquiring refilling information for the manufacturing unit of the alcoholic beverage product associated with the manufacturing unit NFT, the refilling information being information for refilling the manufacturing unit of the alcoholic beverage product into a product unit, and

the instruction information output procedure includes generating refilling instruction information based on the refilling information as the instruction information and outputting the refilling instruction information.

(Supplementary Note 29)

The program according to Supplementary Note 28, wherein

the NFT issuance procedure includes issuing, on a blockchain, a product unit NFT for each product unit of the alcoholic beverage product based on the refilling information,

the marketing procedure includes releasing the product unit NFT on a market,

the transaction information acquisition procedure includes acquiring transaction information of the product unit NFT in the market, and

the NFT management procedure includes updating owner information of the product unit NFT on the blockchain based on the transaction information.

(Supplementary Note 30)

The program according to Supplementary Note 29, wherein

the optional information acquisition procedure includes acquiring optional information on a product unit of the alcoholic beverage product in association with the product unit NFT,

5 the optional information includes information on storage of the product unit of the alcoholic beverage product, and

the instruction information output procedure includes generating instruction information based on the optional information, the instruction information including product management instruction information based on the optional information, and
10 outputting the instruction information including the product management instruction information.

(Supplementary Note 31)

The program according to Supplementary Note 29 or 30, wherein

15 the optional information includes information on delivery of the product unit of the alcoholic beverage product, and

the instruction information output procedure includes generating delivery instruction information based on the optional information as the instruction information and outputting the delivery instruction information.

(Supplementary Note 32)

20 The program according to Supplementary Note 30 or 31, wherein

the instruction information output procedure includes acquiring management information of a product unit of the alcoholic beverage product for which the instruction information is output, and outputting the management information in association with the corresponding product unit NFT.

25 (Supplementary Note 33)

The program according to any one of Supplementary Notes 30 to 32, wherein

the information on storage includes information specifying a category of a storage state, and the category includes at least one category selected from the group consisting of freezing, quick-freezing, refrigeration, storage at a room temperature, and aging.

30 (Supplementary Note 34)

A computer-readable recording medium recorded with an alcoholic beverage NFT transaction support program for causing a computer to execute procedures, wherein the program includes:

an NFT issuance request acquisition procedure;

an NFT issuance procedure;

35 a marketing procedure;

a transaction information acquisition procedure;
an NFT management procedure;
an optional information acquisition procedure; and
an instruction information output procedure, wherein

- 5 the NFT issuance request acquisition procedure includes acquiring manufacturing unit
NFT issuance request information, the manufacturing unit NFT issuance request information
including manufacturing unit identification information of an alcoholic beverage product,
 the NFT issuance procedure includes issuing, on a blockchain, a manufacturing unit
NFT for each manufacturing unit of the alcoholic beverage product specified by the
10 manufacturing unit identification information, based on the manufacturing unit NFT issuance
request information,
 the marketing procedure includes releasing the manufacturing unit NFT on a market,
 the transaction information acquisition procedure includes acquiring transaction
information of the manufacturing unit NFT in the market,
15 the NFT management procedure includes updating owner information of the
manufacturing unit NFT on the blockchain based on the transaction information,
 the optional information acquisition procedure includes acquiring optional information
on the manufacturing unit of the alcoholic beverage product in association with the
manufacturing unit NFT,
20 the optional information including information on storage of the manufacturing unit of the
alcoholic beverage product, and
 the instruction information output procedure includes
generating instruction information based on the optional information, the instruction information
including product management instruction information based on the optional information, and
25 outputting the instruction information including the product management instruction
information.

(Supplementary Note 35)

The computer-readable recording medium according to Supplementary Note 34, wherein

- the marketing procedure includes acquiring exhibition information from an owner of the
30 manufacturing unit NFT and releasing the exhibition information on the market,
 the transaction information acquisition procedure includes acquiring transaction
information of the manufacturing unit NFT in the market based on the exhibition information,
and
 the NFT management procedure includes updating owner information of the
35 manufacturing unit NFT on the blockchain based on the transaction information.

(Supplementary Note 36)

The computer-readable recording medium according to Supplementary Note 34 or 35, wherein the optional information includes information on delivery of the manufacturing unit of the alcoholic beverage product, and

5 the instruction information output procedure includes generating delivery instruction information based on the optional information as the instruction information and outputting the delivery instruction information.

(Supplementary Note 37)

10 The computer-readable recording medium according to any one of Supplementary Notes 34 to 36, wherein

the instruction information output procedure includes acquiring management information of the manufacturing unit of the alcoholic beverage product for which the instruction information is output, and outputting the management information in association with the corresponding manufacturing unit NFT.

15 (Supplementary Note 38)

The computer-readable recording medium according to any one of Supplementary Notes 34 to 37, wherein

20 the information on storage includes information specifying a category of a storage state, and the category includes at least one category selected from the group consisting of freezing, quick-freezing, refrigeration, storage at a room temperature, and aging.

(Supplementary Note 39)

The computer-readable recording medium according to any one of Supplementary Notes 34 to 38, wherein

25 the program further includes a refilling information acquisition procedure, the refilling information acquisition procedure includes acquiring refilling information for the manufacturing unit of the alcoholic beverage product associated with the manufacturing unit NFT, the refilling information being information for refilling the manufacturing unit of the alcoholic beverage product into a product unit, and

30 the instruction information output procedure includes generating refilling instruction information based on the refilling information as the instruction information and outputting the refilling instruction information.

(Supplementary Note 40)

The computer-readable recording medium according to Supplementary Note 39, wherein

35 the NFT issuance procedure includes issuing, on a blockchain, a product unit NFT for each product unit of the alcoholic beverage product based on the refilling information,

the marketing procedure includes releasing the product unit NFT on a market,
the transaction information acquisition procedure includes acquiring transaction
information of the product unit NFT in the market, and
the NFT management procedure includes updating owner information of the product
5 unit NFT on the blockchain based on the transaction information.

(Supplementary Note 41)

The computer-readable recording medium according to Supplementary Note 40, wherein

the optional information acquisition procedure includes acquiring optional information
on a product unit of the alcoholic beverage product in association with the product unit NFT,

10 the optional information includes information on storage of the product unit of the
alcoholic beverage product, and

the instruction information output procedure includes
generating instruction information based on the optional information, the instruction information
including product management instruction information based on the optional information, and
15 outputting the instruction information including the product management instruction
information.

(Supplementary Note 42)

The computer-readable recording medium according to Supplementary Note 40 or 41, wherein

20 the optional information includes information on delivery of the product unit of the
alcoholic beverage product, and

the instruction information output procedure includes generating delivery instruction
information based on the optional information as the instruction information and outputting the
delivery instruction information.

(Supplementary Note 43)

25 The computer-readable recording medium according to Supplementary Note 41 or 42, wherein

the instruction information output procedure includes acquiring management
information of a product unit of the alcoholic beverage product for which the instruction
information is output, and outputting the management information in association with the
corresponding product unit NFT.

30 (Supplementary Note 44)

The computer-readable recording medium according to any one of Supplementary Notes 41 to
43, wherein

the information on storage includes information specifying a category of a storage state,
and the category includes at least one category selected from the group consisting of freezing,
35 quick-freezing, refrigeration, storage at a room temperature, and aging.

Industrial Applicability

[0087] The present disclosure allows issuing manufacturing unit NFT associated on a one-to-one basis with a product specified by product identification information of an alcoholic beverage product, and recording a transaction of the manufacturing unit NFT with a blockchain network.

- 5 Therefore, the present disclosure can be suitably used for electronic commerce, and especially for transactions of alcoholic beverage products.

Reference Signs List

[0088]

- 10: alcoholic beverage NFT transaction support apparatus
- 10 11: NFT issuance request acquisition part
- 12: NFT issuance part
- 13: marketing part
- 14: transaction information acquisition part
- 15: NFT management part
- 15 16: optional information acquisition part
- 17: instruction information acquisition part
- 18: refilling information acquisition part
- 101: central processing unit
- 102: memory
- 20 103: bus
- 104: storage
- 105: input unit
- 106: output unit
- 107: communication device

25

CLAIMS

[Claim 1] An alcoholic beverage NFT transaction support apparatus, comprising:

an NFT issuance request acquisition part;

5 an NFT issuance part;

a marketing part;

a transaction information acquisition part;

an NFT management part;

an optional information acquisition part; and

10 an instruction information output part, wherein

the NFT issuance request acquisition part acquires manufacturing unit NFT issuance request information, the manufacturing unit NFT issuance request information including manufacturing unit identification information of an alcoholic beverage product,

the NFT issuance part issues, on a blockchain, a manufacturing unit NFT for each
15 manufacturing unit of the alcoholic beverage product specified by the manufacturing unit identification information, based on the manufacturing unit NFT issuance request information,

the marketing part releases the manufacturing unit NFT on a market,

the transaction information acquisition part acquires transaction information of the manufacturing unit NFT in the market,

20 the NFT management part updates owner information of the manufacturing unit NFT on the blockchain based on the transaction information,

the optional information acquisition part acquires optional information on the manufacturing unit of the alcoholic beverage product in association with the manufacturing unit NFT, the optional information including information on storage of the manufacturing unit of the

25 alcoholic beverage product, and

the instruction information output part

generates instruction information based on the optional information, the instruction information including product management instruction information based on the optional information, and

30 outputs the instruction information including the product management instruction information.

[Claim 2] The apparatus according to claim 1, wherein

the marketing part acquires exhibition information from an owner of the manufacturing
35 unit NFT and releases the exhibition information on the market,

the transaction information acquisition part acquires transaction information of the manufacturing unit NFT in the market based on the exhibition information, and

the NFT management part updates owner information of the manufacturing unit NFT on the blockchain based on the transaction information.

5

[Claim 3] The apparatus according to claim 1 or 2, wherein

the optional information includes information on delivery of the manufacturing unit of the alcoholic beverage product, and

the instruction information output part generates delivery instruction information based
10 on the optional information as the instruction information and outputs the delivery instruction information.

[Claim 4] The apparatus according to any one of claims 1 to 3, wherein

the instruction information output part acquires management information of the
15 manufacturing unit of the alcoholic beverage product for which the instruction information is output, and outputs the management information in association with the corresponding manufacturing unit NFT.

[Claim 5] The apparatus according to any one of claims 1 to 4, wherein

20 the information on storage includes information specifying a category of a storage state, and the category includes at least one category selected from the group consisting of freezing, quick-freezing, refrigeration, storage at a room temperature, and aging.

[Claim 6] The apparatus according to any one of claims 1 to 5, comprising:

25 a refilling information acquisition part, wherein

the refilling information acquisition part acquires refilling information for the manufacturing unit of the alcoholic beverage product associated with the manufacturing unit NFT, the refilling information being information for refilling the manufacturing unit of the alcoholic beverage product into a product unit, and

30 the instruction information output part generates refilling instruction information based on the refilling information as the instruction information and outputs the refilling instruction information.

[Claim 7] The apparatus according to claim 6, wherein

the NFT issuance part issues, on a blockchain, a product unit NFT for each product unit
35 of the alcoholic beverage product based on the refilling information,

the marketing part releases the product unit NFT on a market,
the transaction information acquisition part acquires transaction information of the
product unit NFT in the market, and
the NFT management part updates owner information of the product unit NFT on the
5 blockchain based on the transaction information.

[Claim 8] The apparatus according to claim 7, wherein
the optional information acquisition part acquires optional information on a product unit
of the alcoholic beverage product in association with the product unit NFT,
10 the optional information includes information on storage of the product unit of the
alcoholic beverage product, and
the instruction information output part
generates instruction information based on the optional information, the instruction
information including product management instruction information based on the optional
15 information, and
outputs the instruction information including the product management instruction
information.

[Claim 9] The apparatus according to claim 7 or 8, wherein
20 the optional information includes information on delivery of the product unit of the
alcoholic beverage product, and
the instruction information output part generates delivery instruction information based
on the optional information as the instruction information and outputs the delivery instruction
information.

25 [Claim 10] The apparatus according to claim 8 or 9, wherein
the instruction information output part acquires management information of a product
unit of the alcoholic beverage product for which the instruction information is output, and
outputs the management information in association with the corresponding product unit NFT.

30 [Claim 11] The apparatus according to any one of claims 8 to 10, wherein
the information on storage includes information specifying a category of a storage state,
and the category includes at least one category selected from the group consisting of freezing,
quick-freezing, refrigeration, storage at a room temperature, and aging.

[Claim 12] An alcoholic beverage NFT transaction support method, comprising:

acquiring NFT issuance request;

issuing an NFT;

marketing the NFT;

5 acquiring transaction information;

managing the NFT;

acquiring optional information; and

outputting instruction information, wherein

10 the acquiring NFT issuance request includes acquiring manufacturing unit NFT issuance request information, the manufacturing unit NFT issuance request information including manufacturing unit identification information of an alcoholic beverage product,

the issuing the NFT includes issuing, on a blockchain, a manufacturing unit NFT for each manufacturing unit of the alcoholic beverage product specified by the manufacturing unit identification information, based on the manufacturing unit NFT issuance request information,

15 the marketing the NFT includes releasing the manufacturing unit NFT on a market,

the acquiring transaction information includes acquiring transaction information of the manufacturing unit NFT in the market,

the managing the NFT includes updating owner information of the manufacturing unit NFT on the blockchain based on the transaction information,

20 the acquiring optional information includes acquiring optional information on the manufacturing unit of the alcoholic beverage product in association with the manufacturing unit NFT, the optional information including information on storage of the manufacturing unit of the alcoholic beverage product, and

the outputting instruction information includes

25 generating instruction information based on the optional information, the instruction information including product management instruction information based on the optional information, and

outputting the instruction information including the product management instruction information.

30

[Claim 13] The method according to claim 12, wherein

the marketing the NFT includes acquiring exhibition information from an owner of the manufacturing unit NFT and releasing the exhibition information on the market,

35 the acquiring transaction information includes acquiring transaction information of the manufacturing unit NFT in the market based on the exhibition information, and

the managing the NFT includes updating owner information of the manufacturing unit NFT on the blockchain based on the transaction information.

[Claim 14] The method according to claim 12 or 13, wherein

the optional information includes information on delivery of the manufacturing unit of the alcoholic beverage product, and

the outputting instruction information includes generating delivery instruction information based on the optional information as the instruction information and outputting the delivery instruction information.

[Claim 15] The method according to any one of claims 12 to 14, wherein

the outputting instruction information includes acquiring management information of the manufacturing unit of the alcoholic beverage product for which the instruction information is output, and outputting the management information in association with the corresponding manufacturing unit NFT.

[Claim 16] The method according to any one of claims 12 to 15, wherein

the information on storage includes information specifying a category of a storage state, and the category includes at least one category selected from the group consisting of freezing, quick-freezing, refrigeration, storage at a room temperature, and aging.

[Claim 17] The method according to any one of claims 12 to 16, comprising:

acquiring refilling information, wherein

the acquiring refilling information includes acquiring refilling information for the manufacturing unit of the alcoholic beverage product associated with the manufacturing unit NFT, the refilling information being information for refilling the manufacturing unit of the alcoholic beverage product into a product unit, and

the outputting instruction information includes generating refilling instruction information based on the refilling information as the instruction information and outputting the refilling instruction information.

[Claim 18] The method according to claim 17, wherein

the issuing the NFT includes issuing, on a blockchain, a product unit NFT for each product unit of the alcoholic beverage product based on the refilling information,

the marketing the NFT includes releasing the product unit NFT on a market,

the acquiring transaction information includes acquiring transaction information of the product unit NFT in the market, and

the managing the NFT includes updating owner information of the product unit NFT on the blockchain based on the transaction information.

5

[Claim 19] The method according to claim 18, wherein

the acquiring optional information includes acquiring optional information on a product unit of the alcoholic beverage product in association with the product unit NFT,

10 the optional information includes information on storage of the product unit of the alcoholic beverage product,

the outputting instruction information includes

generating instruction information based on the optional information, the instruction information including product management instruction information based on the optional information, and

15 outputting the instruction information including the product management instruction information.

[Claim 20] The method according to claim 18 or 19, wherein

20 the optional information includes information on delivery of the product unit of the alcoholic beverage product, and

the outputting instruction information includes generating delivery instruction information based on the optional information as the instruction information and outputting the delivery instruction information.

25 [Claim 21] The method according to claim 19 or 20, wherein

the outputting instruction information includes acquiring management information of a product unit of the alcoholic beverage product for which the instruction information is output, and outputting the management information in association with the corresponding product unit NFT.

30

[Claim 22] The method according to any one of claims 19 to 21, wherein

the information on storage includes information specifying a category of a storage state, and the category includes at least one category selected from the group consisting of freezing, quick-freezing, refrigeration, storage at a room temperature, and aging.

35

[Claim 23] An alcoholic beverage NFT transaction support program for causing a computer to execute procedures, comprising:

- an NFT issuance request acquisition procedure;
- an NFT issuance procedure;
- 5 a marketing procedure;
- a transaction information acquisition procedure;
- an NFT management procedure;
- an optional information acquisition procedure; and
- an instruction information output procedure, wherein

10 the NFT issuance request acquisition procedure includes acquiring manufacturing unit NFT issuance request information, the manufacturing unit NFT issuance request information including manufacturing unit identification information of an alcoholic beverage product,

the NFT issuance procedure includes issuing, on a blockchain, a manufacturing unit NFT for each manufacturing unit of the alcoholic beverage product specified by the manufacturing unit identification information, based on the manufacturing unit NFT issuance request information,

the marketing procedure includes releasing the manufacturing unit NFT on a market, the transaction information acquisition procedure includes acquiring transaction information of the manufacturing unit NFT in the market,

20 the NFT management procedure includes updating owner information of the manufacturing unit NFT on the blockchain based on the transaction information,

the optional information acquisition procedure includes acquiring optional information on the manufacturing unit of the alcoholic beverage product in association with the manufacturing unit NFT, the optional information including information on storage of the manufacturing unit of the alcoholic beverage product, and

25 the instruction information output procedure includes generating instruction information based on the optional information, the instruction information including product management instruction information based on the optional information, and

30 outputting the instruction information including the product management instruction information.

[Claim 24] The program according to claim 23, wherein

the marketing procedure includes acquiring exhibition information from an owner of the manufacturing unit NFT and releasing the exhibition information on the market,

the transaction information acquisition procedure includes acquiring transaction information of the manufacturing unit NFT in the market based on the exhibition information, and

5 the NFT management procedure includes updating owner information of the manufacturing unit NFT on the blockchain based on the transaction information.

[Claim 25] The program according to claim 23 or 24, wherein

the optional information includes information on delivery of the manufacturing unit of the alcoholic beverage product, and

10 the instruction information output procedure includes generating delivery instruction information based on the optional information as the instruction information and outputting the delivery instruction information.

[Claim 26] The program according to any one of claims 23 to 25, wherein

15 the instruction information output procedure includes acquiring management information of the manufacturing unit of the alcoholic beverage product for which the instruction information is output, and outputting the management information in association with the corresponding manufacturing unit NFT.

20 [Claim 27] The program according to any one of claims 23 to 26, wherein

the information on storage includes information specifying a category of a storage state, and the category includes at least one category selected from the group consisting of freezing, quick-freezing, refrigeration, storage at a room temperature, and aging.

25 [Claim 28] The program according to any one of claims 23 to 27, comprising:

a refilling information acquisition procedure,

the refilling information acquisition procedure includes acquiring refilling information for the manufacturing unit of the alcoholic beverage product associated with the manufacturing unit NFT, the refilling information being information for refilling the manufacturing unit of the alcoholic beverage product into a product unit, and

30 the instruction information output procedure includes generating refilling instruction information based on the refilling information as the instruction information and outputting the refilling instruction information.

35 [Claim 29] The program according to claim 28, wherein

the NFT issuance procedure includes issuing, on a blockchain, a product unit NFT for each product unit of the alcoholic beverage product based on the refilling information,
the marketing procedure includes releasing the product unit NFT on a market,
the transaction information acquisition procedure includes acquiring transaction
5 information of the product unit NFT in the market, and
the NFT management procedure includes updating owner information of the product unit NFT on the blockchain based on the transaction information.

[Claim 30] The program according to claim 29, wherein

10 the optional information acquisition procedure includes acquiring optional information on a product unit of the alcoholic beverage product in association with the product unit NFT,
the optional information includes information on storage of the product unit of the alcoholic beverage product, and
the instruction information output procedure includes
15 generating instruction information based on the optional information, the instruction information including product management instruction information based on the optional information, and
outputting the instruction information including the product management instruction information.

20 [Claim 31] The program according to claim 29 or 30, wherein

the optional information includes information on delivery of the product unit of the alcoholic beverage product, and
the instruction information output procedure includes generating delivery instruction
25 information based on the optional information as the instruction information and outputting the delivery instruction information.

[Claim 32] The program according to claim 30 or 31, wherein

30 the instruction information output procedure includes acquiring management information of a product unit of the alcoholic beverage product for which the instruction information is output, and outputting the management information in association with the corresponding product unit NFT.

[Claim 33] The program according to any one of claims 30 to 32, wherein

35 the information on storage includes information specifying a category of a storage state,

and the category includes at least one category selected from the group consisting of freezing, quick-freezing, refrigeration, storage at a room temperature, and aging.

[Claim 34] A computer-readable recording medium recorded with an alcoholic beverage

- 5 NFT transaction support program for causing a computer to execute procedures, wherein the program comprises:
- an NFT issuance request acquisition procedure;
 - an NFT issuance procedure;
 - a marketing procedure;
 - 10 a transaction information acquisition procedure;
 - an NFT management procedure;
 - an optional information acquisition procedure; and
 - an instruction information output procedure, wherein
 - the NFT issuance request acquisition procedure includes acquiring manufacturing unit
 - 15 NFT issuance request information, the manufacturing unit NFT issuance request information including manufacturing unit identification information of an alcoholic beverage product,
 - the NFT issuance procedure includes issuing, on a blockchain, a manufacturing unit NFT for each manufacturing unit of the alcoholic beverage product specified by the manufacturing unit identification information, based on the manufacturing unit NFT issuance
 - 20 request information,
 - the marketing procedure includes releasing the manufacturing unit NFT on a market,
 - the transaction information acquisition procedure includes acquiring transaction information of the manufacturing unit NFT in the market,
 - the NFT management procedure includes updating owner information of the
 - 25 manufacturing unit NFT on the blockchain based on the transaction information,
 - the optional information acquisition procedure includes acquiring optional information on the manufacturing unit of the alcoholic beverage product in association with the manufacturing unit NFT,
 - the optional information including information on storage of the manufacturing unit of the
 - 30 alcoholic beverage product, and
 - the instruction information output procedure includes
 - generating instruction information based on the optional information, the instruction information including product management instruction information based on the optional information, and
 - 35 outputting the instruction information including the product management instruction

information.

[Claim 35] The computer-readable recording medium according to claim 34, wherein
the marketing procedure includes acquiring exhibition information from an owner of the
5 manufacturing unit NFT and releasing the exhibition information on the market,
the transaction information acquisition procedure includes acquiring transaction
information of the manufacturing unit NFT in the market based on the exhibition information,
and
the NFT management procedure includes updating owner information of the
10 manufacturing unit NFT on the blockchain based on the transaction information.

[Claim 36] The computer-readable recording medium according to claim 34 or 35, wherein
the optional information includes information on delivery of the manufacturing unit of
the alcoholic beverage product, and
15 the instruction information output procedure includes generating delivery instruction
information based on the optional information as the instruction information and outputting the
delivery instruction information.

[Claim 37] The computer-readable recording medium according to any one of claims 34 to
20 36, wherein
the instruction information output procedure includes acquiring management
information of the manufacturing unit of the alcoholic beverage product for which the instruction
information is output, and outputting the management information in association with the
corresponding manufacturing unit NFT.

[Claim 38] The computer-readable recording medium according to any one of claims 34 to
37, wherein
the information on storage includes information specifying a category of a storage state,
and the category includes at least one category selected from the group consisting of freezing,
30 quick-freezing, refrigeration, storage at a room temperature, and aging.

[Claim 39] The computer-readable recording medium according to any one of claims 34 to
38, wherein
the program further comprises a refilling information acquisition procedure,
35 the refilling information acquisition procedure includes acquiring refilling information

for the manufacturing unit of the alcoholic beverage product associated with the manufacturing unit NFT, the refilling information being information for refilling the manufacturing unit of the alcoholic beverage product into a product unit, and

the instruction information output procedure includes generating refilling instruction
5 information based on the refilling information as the instruction information and outputting the refilling instruction information.

[Claim 40] The computer-readable recording medium according to claim 39, wherein
the NFT issuance procedure includes issuing, on a blockchain, a product unit NFT for
10 each product unit of the alcoholic beverage product based on the refilling information,
the marketing procedure includes releasing the product unit NFT on a market,
the transaction information acquisition procedure includes acquiring transaction
information of the product unit NFT in the market, and
the NFT management procedure includes updating owner information of the product
15 unit NFT on the blockchain based on the transaction information.

[Claim 41] The computer-readable recording medium according to claim 40, wherein
the optional information acquisition procedure includes acquiring optional information
on a product unit of the alcoholic beverage product in association with the product unit NFT,
20 the optional information includes information on storage of the product unit of the
alcoholic beverage product, and
the instruction information output procedure includes
generating instruction information based on the optional information, the instruction
information including product management instruction information based on the optional
25 information, and
outputting the instruction information including the product management instruction
information.

[Claim 42] The computer-readable recording medium according to claim 40 or 41, wherein
30 the optional information includes information on delivery of the product unit of the
alcoholic beverage product, and
the instruction information output procedure includes generating delivery instruction
information based on the optional information as the instruction information and outputting the
delivery instruction information.

35

[Claim 43] The computer-readable recording medium according to claim 41 or 42, wherein
the instruction information output procedure includes acquiring management
information of a product unit of the alcoholic beverage product for which the instruction
information is output, and outputting the management information in association with the
5 corresponding product unit NFT.

[Claim 44] The computer-readable recording medium according to any one of claims 41 to
43, wherein

10 the information on storage includes information specifying a category of a storage state,
and the category includes at least one category selected from the group consisting of freezing,
quick-freezing, refrigeration, storage at a room temperature, and aging.