[CLAIMS]

[Claim 1]

A management device connected to a plurality of user devices via a network, the management device comprising:

an issued information storage area that stores a cryptocurrency ID of an issued cryptocurrency;

an account information storage area that stores account information in association with one or a plurality of cryptocurrency IDs; and

a history information storage area that stores history information of a cryptocurrency in association with a cryptocurrency ID,

wherein, when receiving a sell order specifying account information from one of the user devices and a buy order specifying account information from another of the user devices,

the management device determines propriety of buying and selling mediating conditions including conditions in which

the account information specified by the sell order is stored in the account information storage area,

a cryptocurrency ID stored in the account information storage area in association with the account information specified by the sell order is stored in the issued information storage area, and

the cryptocurrency ID stored in the account information storage area in association with the account information

specified by the sell order is stored in the history information storage area in association with history information, and when the buying and selling mediating conditions are met, the management device performs buying and selling mediating processing with a determination that buying and selling for the cryptocurrency ID stored in the account information storage area in association with the account information specified by the sell order is established, and

the buying and selling mediating processing includes

a step of deleting, from the account information storage area, the account information specified by the sell order and the cryptocurrency ID for which the buying and selling has been established, and storing the account information specified by the buy order and the cryptocurrency ID for which the buying and selling has been established in the account information storage area in association with each other, and

a step of storing the cryptocurrency ID for which the buying and selling has been established and history information indicating that the buying and selling of the cryptocurrency has been established in the history information storage area in association with each other.

[Claim 2]

The management device according to claim 1, wherein, when receiving a sell order specifying account information from one of the user devices,

the management device determines propriety of buying

intervention conditions including conditions in which

a target price is a prescribed buying intervention setting price or less,

the account information specified by the sell order is stored in the account information storage area,

a cryptocurrency ID stored in the account information storage area in association with the account information specified by the sell order is stored in the issued information storage area, and

the cryptocurrency ID stored in the account information storage area in association with the account information specified by the sell order is stored in the history information storage area in association with history information, and when the buying intervention conditions are met, the management device performs buying intervention processing with a determination that buying intervention for the cryptocurrency ID stored in the account information storage area in association with the account information specified by the sell order is established, and

the buying intervention processing includes

a step of deleting, from the account information storage area, the account information specified by the sell order and the cryptocurrency ID for which the buying intervention has been established, and storing account information of the management device and the cryptocurrency ID for which the buying intervention has been established in the account

information storage area in association with each other, and

a step of storing the cryptocurrency ID for which the buying intervention has been established and history information indicating that the buying intervention has been performed in the history information storage area in association with each other.

[Claim 3]

The management device according to claim 2, wherein

the buying intervention conditions include a condition in which an asset balance stored in an asset information storage area is the target price or more, or a condition in which, when a desired sell number of N ($N \geq 2$) is specified by the sell order, the asset balance stored in the asset information storage area is a product of the desired sell number and the target price or more, and

the buying intervention processing includes a step of subtracting the target price from the asset balance stored in the asset information storage area, or a step of, when a desired sell number of N ($N \geq 2$) is specified by the sell order, subtracting the product of the desired sell number and the target price from the asset balance stored in the asset information storage area.

[Claim 4]

A management device connected to a plurality of user devices via a network, the management device comprising:

an issued information storage area that stores a

cryptocurrency ID of an issued cryptocurrency;

an account information storage area that stores account information in association with one or a plurality of cryptocurrency IDs; and

a history information storage area that stores history information of a cryptocurrency in association with a cryptocurrency ID,

wherein, when receiving a sell order specifying account information from one of the user devices,

the management device determines propriety of buying intervention conditions including conditions in which

a target price is a prescribed buying intervention setting price or less,

the account information specified by the sell order is stored in the account information storage area,

a cryptocurrency ID stored in the account information storage area in association with the account information specified by the sell order is stored in the issued information storage area, and

the cryptocurrency ID stored in the account information storage area in association with the account information specified by the sell order is stored in the history information storage area in association with history information, and when the buying intervention conditions are met, the management device performs buying intervention processing with a determination that buying intervention for

the cryptocurrency ID stored in the account information storage area in association with the account information specified by the sell order is established, and

the buying intervention processing includes

a step of deleting, from the account information storage area, the account information specified by the sell order and the cryptocurrency ID for which the buying intervention has been established, and storing account information of the management device and the cryptocurrency ID for which the buying intervention has been established in the account information storage area in association with each other, and

a step of storing the cryptocurrency ID for which the buying intervention has been established and history information indicating that the buying intervention has been performed in the history information storage area in association with each other.

[Claim 5]

The management device according to claim 4, wherein

the buying intervention conditions include a condition in which an asset balance stored in an asset information storage area is the target price or more, or a condition in which, when a desired sell number of N ($N \geq 2$) is specified by the sell order, the asset balance stored in the asset information storage area is a product of the desired sell number and the target price or more, and

the buying intervention processing includes a step of

subtracting the target price from the asset balance stored in the asset information storage area, or a step of, when a desired sell number of N (N ≥ 2) is specified by the sell order, subtracting the product of the desired sell number and the target price from the asset balance stored in the asset information storage area.

[Claim 6]

The management device according to any one of claims 1 to 5, wherein, when receiving a cryptocurrency issue request specifying account information from the user devices, the management device determines propriety of issue conditions including reception of a price of a cryptocurrency as a condition, and when the issue conditions are met, the management device performs cryptocurrency issue processing, and

the cryptocurrency issue processing includes

a step of storing a new cryptocurrency ID in the issued information storage area,

a step of storing the new cryptocurrency ID in the account information storage area in association with the account information specified by the cryptocurrency issue request, and

a step of storing the new cryptocurrency ID in the history information storage area in association with history information indicating that the cryptocurrency has been newly issued.

[Claim 7]

The management device according to claim 6, further comprising:

an issue number storage area that stores the number of issued cryptocurrencies, wherein

the issue conditions include a condition in which the number of the issued cryptocurrencies stored in the issue number storage area is a prescribed upper limit value or less, or a condition in which, when a desired issue number of N ($N \geq 2$) is specified by the cryptocurrency issue request, a sum of the number of the issued cryptocurrencies stored in the issue number storage area and the desired issue number is the prescribed upper limit value or less.

[Claim 8]

The management device according to any one of claims 1 to 7, wherein, when receiving a buy order specifying account information from one of the user devices,

the management device determines propriety of selling intervention conditions including a condition in which a target price is a prescribed selling intervention setting price or more, and when the selling intervention conditions are met, the management device performs selling intervention processing with a determination that selling intervention for a cryptocurrency ID stored in the account information storage area in association with the account information of the management device is established, and

the selling intervention processing includes

a step of deleting, from the account information storage area, the account information of the management device and the cryptocurrency ID for which the selling intervention has been established, and storing the account information specified by the buy order and the cryptocurrency ID for which the selling intervention has been established in the account information storage area in association with each other, and

a step of storing the cryptocurrency ID for which the selling intervention has been established and history information indicating that the selling intervention has been performed in the history information storage area in association with each other.

[Claim 9]

A cryptocurrency system comprising:

the management device according to any one of claims 1 to 8; and

a plurality of user devices connected to the management device via a network.

[Claim 10]

A cryptocurrency system comprising: the management device according to any one of claims 1 to 8 provided in plurality, the management devices being hierarchized in a tree form and connected to each other, wherein

the management devices belonging to one hierarchy include the respective issued information storage areas for the

own devices, the respective account information storage areas for the own devices, and the respective history information storage areas for the own devices, and

the respective issued information storage areas for other devices, the respective account information storage areas for other devices, and the respective history information storage areas for other devices, and

the issued information storage areas for other devices, the account information storage areas for other devices, and the history information storage areas for other devices provided in the management devices belonging to the one hierarchy respectively store information stored in the issued information storage areas for the own devices, information stored in the account information storage areas for the own devices, and information stored in the history information storage areas for the own devices of the management devices belonging to a hierarchy immediately below the one hierarchy.

[Claim 11]

The cryptocurrency system according to claim 10, wherein the management devices are

prohibited from writing and/or reading information in and from at least one of: the issued information storage areas for the own devices; the account information storage areas for the own devices; and the history information storage areas for the own devices, and

prohibited from writing and/or reading information in and

from at least one of: the issued information storage areas for other devices; the account information storage areas for other devices; and the history information storage areas for other devices.

[Claim 12]

A cryptocurrency system comprising: management devices hierarchized in a tree form and connected to each other, wherein

the management devices are connected to a plurality of user devices via a network, and each include

an issued information storage area that stores a cryptocurrency ID of an issued cryptocurrency,

an account information storage area that stores account information in association with one or a plurality of cryptocurrency IDs, and

a history information storage area that stores history information of a cryptocurrency in association with a cryptocurrency ID, and wherein

the management devices belonging to one hierarchy include

the respective issued information storage areas for the own devices, the respective account information storage areas for the own devices, and the respective history information storage areas for the own devices, and

the respective issued information storage areas for other devices, the respective account information storage areas for other devices, and the respective history information storage

areas for other devices, and

the issued information storage areas for other devices, the account information storage areas for other devices, and the history information storage areas for other devices provided in the management devices belonging to the one hierarchy respectively store information stored in the issued information storage areas for the own devices, information stored in the account information storage areas for the own devices, and information stored in the history information storage areas for the own devices of the management devices belonging to a hierarchy immediately below the one hierarchy.

[Claim 13]

The cryptocurrency system according to claim 12, wherein

the management devices are

prohibited from writing and/or reading information in and from at least one of: the issued information storage areas for the own devices; the account information storage areas for the own devices; and the history information storage areas for the own devices, and

prohibited from writing and/or reading information in and from at least one of: the issued information storage areas for other devices; the account information storage areas for other devices; and the history information storage areas for other devices.