

[CLAIMS]

[Claim 1]

~~———— A distribution management apparatus comprising:~~
~~———— a transaction reception part that receives transaction data from a predetermined terminal, the transaction data containing information on a completed one of processes in distribution of a predetermined product and a concerned party in the completed process;~~
~~———— an access right information generation part that generates access right information based on the received transaction data, the access right information being information on a relation between the completed process, the concerned party in the completed process, and a predetermined access right of the concerned party;~~
~~———— an information provision request reception part that receives an information provision request for a process in the distribution of the product from a predetermined terminal;~~
~~———— an access right determination part that identifies, based on the access right information, information on a process in the distribution to which a sender of the received information provision request has an access right; and~~
~~———— an information transmission part that transmits the identified information on the process to the terminal that has sent the information provision request.~~

[Claim 2]

~~———— The distribution management apparatus according to claim 1, comprising~~
~~———— an access right master storage part that stores an access right master which is information storing a relation between a type of each process in the distribution of the product and an access right of each of the concerned parties in the process, wherein~~
~~———— based on the access right master, the access right information generation part generates, as the access right information, information storing a relation between the type of the completed process, the concerned party in the completed process, and the access right of the concerned party.~~

[Claim 3]

~~———— The distribution management apparatus according to claim 2, wherein~~
~~———— each of the concerned parties in each process in the access right master includes at least one of a party that executes the process, a party to which the product resulting from the~~

process is transferred, and/or an auditor of the process.

[Claim 4]

~~_____The distribution management apparatus according to claim 1, wherein
_____the access right includes a forward access right which is an access right such that the
concerned party retaining the access right is allowed to access a process completed after the
process completed by the concerned party, or a backward access right which is an access right
such that the concerned party retaining the access right is allowed to access a process
completed before the process completed by the concerned party.~~

[Claim 51]

A distribution management system comprising a plurality of distribution management apparatuses each of which includes

a transaction reception part that receives transaction data from a predetermined terminal, the transaction data containing information on a completed one of processes in distribution of a predetermined product and a concerned party in the completed process;

an access right information generation part that generates access right information based on the received transaction data, the access right information being information on a relation between the completed process, the concerned party in the completed process, and a predetermined access right of the concerned party;

an information provision request reception part that receives an information provision request for a process in the distribution of the product from a predetermined terminal;

an access right determination part that identifies, based on the access right information, information on a process in the distribution to which a sender of the received information provision request has an access right; and

an information transmission part that transmits the identified information on the process to the terminal that has sent the information provision request,

wherein each of the distribution management apparatuses includes

a transaction data transfer part that, upon receipt of the transaction data, transfers the received transaction data to the other distribution management apparatuses, and

a result reception part that receives, from the other distribution management apparatuses, generation results of predetermined data generated by the other distribution management apparatuses based on the transferred transaction data, wherein and the access right information generation part generates the access right

information if a predetermined number of results from among the received generation results match; and

a transaction sharing part that generates a block of data containing the received transaction data and a hash of past transaction data if the predetermined number of results match, and shares blockchain data containing the generated block of data with the other distribution management apparatuses.

[Claim 6]

~~———— The distribution management system according to claim 5, wherein~~
~~———— each of the distribution management apparatuses includes a transaction sharing part that generates a block of data containing the received transaction data and a hash of past transaction data if the predetermined number of results match, and shares blockchain data containing the generated block of data with the other distribution management apparatuses.~~

[Claim 7]

~~———— A distribution management method in which a distribution management apparatus—~~
~~executes~~
~~———— transaction reception processing to receive transaction data from a predetermined terminal, the transaction data containing information on a completed one of processes in—~~
~~distribution of a predetermined product and a concerned party in the completed process,~~
~~———— access right information generation processing to generate access right information—~~
~~based on the received transaction data, the access right information being information on a—~~
~~relation between the completed process, the concerned party in the completed process, and a—~~
~~predetermined access right of the concerned party,~~
~~———— information provision request reception processing to receive an information—~~
~~provision request for a process in the distribution of the product from a predetermined—~~
~~terminal,~~
~~———— access right determination processing to identify, based on the access right—~~
~~information, information on a process in the distribution to which a sender of the received—~~
~~information provision request has an access right, and~~
~~———— information transmission processing to transmit the identified information on the—~~
~~process to the terminal that has sent the information provision request.~~

[Claim 8]

~~———— The distribution management method according to claim 7, wherein~~

~~the distribution management apparatus executes access right master storage processing to store an access right master which is information storing a relation between a type of each process in the distribution of the product and an access right of each of the concerned parties in the process, and~~

~~in the access right information generation processing, based on the access right master, the distribution management apparatus generates, as the access right information, information storing a relation between the type of the completed process, the concerned party in the completed process, and the access right of the concerned party.~~

[Claim 9]

~~The distribution management method according to claim 8, wherein~~

~~each of the concerned parties in each process in the access right master includes at least one of a party that executes the process, a party to which the product resulting from the process is transferred, and/or an auditor of the process.~~

[Claim 10]

~~The distribution management method according to claim 7, wherein~~

~~the access right includes a forward access right which is an access right such that the concerned party retaining the access right is allowed to access a process completed after the process completed by the concerned party, or a backward access right which is an access right such that the concerned party retaining the access right is allowed to access a process completed before the process completed by the concerned party.~~

[Claim 11]

~~The distribution management method according to claim 7, wherein~~

~~each of a plurality of distribution management apparatuses executes~~

~~transaction reception processing to receive transaction data from a predetermined terminal, the transaction data containing information on a completed one of processes in distribution of a predetermined product and a concerned party in the completed process,~~

~~access right information generation processing to generate access right information based on the received transaction data, the access right information being information on a relation between the completed process, the concerned party in the completed process, and a predetermined access right of the concerned party,~~

~~information provision request reception processing to receive an information~~

provision request for a process in the distribution of the product from a predetermined terminal,

————— access right determination processing to identify, based on the access right information, information on a process in the distribution to which a sender of the received information provision request has an access right, and

————— information transmission processing to transmit the identified information on the process to the terminal that has sent the information provision request,

————— each of the distribution management apparatuses executes

————— transaction data transfer processing to, upon receipt of the transaction data, transfer the received transaction data to the other distribution management apparatuses, and

————— result reception processing to receive, from the other distribution management apparatuses, generation results of predetermined data generated by the other distribution management apparatuses based on the transferred transaction data, and

————— in the access right information generation processing, each of the distribution management apparatuses generates the access right information if a predetermined number of results from among the received generation results match.

[Claim 12]

————— The distribution management method according to claim 11, wherein

————— each of the distribution management apparatuses executes transaction sharing processing to generate a block of data containing the received transaction data and a hash of past transaction data if the predetermined number of results match, and shares blockchain data containing the generated block of data with the other distribution management apparatuses.