CLAIMS

[Claim 1]

An internal air adjustment device that supplies low-oxygen-concentration air having an oxygen concentration lower than an oxygen concentration of external air of a storage (1) to the storage (1), and that maintains an oxygen concentration of internal air of the storage (1) in a target oxygen concentration range lower than a reference concentration, and

that is constituted to perform an oxygen-concentration restoration operation of increasing the oxygen concentration of the internal air of the storage (1) to the reference concentration from the target oxygen concentration range,

the internal air adjustment device comprising:

a controller (50) that is configured to, in the oxygen-concentration restoration operation, regulate at least one of a flow rate and the oxygen concentration of the low-oxygen-concentration air that is supplied into an interior of the storage (1) or a flow rate of the external air that is supplied into the interior of the storage (1),

wherein the controller (50) is configured to regulate the at least one of the flow rate and the oxygen concentration of the low-oxygen-concentration air that is supplied into the interior of the storage (1) or the flow rate of the external air that is supplied into the interior

of the storage (1) to cause a speed of increase in the oxygen concentration of the internal air to be less than or equal to a predetermined maximum speed,

the maximum speed is set to a value that allows for suppression of reduction in freshness of perishables stored in the storage (1).

[Claim 2]

An internal air adjustment device that supplies low-oxygen-concentration air having an oxygen concentration lower than an oxygen concentration of external air of a storage (1) to the storage (1), and that maintains an oxygen concentration of internal air of the storage (1) in a target oxygen concentration range lower than a reference concentration, and

that is constituted to perform an oxygen-concentration restoration operation of increasing the oxygen concentration of the internal air of the storage (1) to the reference concentration from the target oxygen concentration range,

the internal air adjustment device comprising:

a controller (50) that is configured to, in the oxygen-concentration restoration operation, regulate at least one of a flow rate and the oxygen concentration of the low-oxygen-concentration air that is supplied into an interior of the storage (1) or a flow rate of the external air that is supplied into the interior of the storage (1),

wherein the storage (1) is a transport container,

wherein the internal air adjustment device includes a position detector (60) that is configured to detect a position of the storage (1), and

wherein the controller (50) is configured to determine starting of the oxygen-concentration restoration operation by using the position of the storage (1) detected by the position detector (60) during transport of the storage (1).

[Claim 3]

An internal air adjustment device that supplies low-oxygen-concentration air having an oxygen concentration lower than an oxygen concentration of external air of a storage (1) to the storage (1), and that maintains an oxygen concentration of internal air of the storage (1) in a target oxygen concentration range lower than a reference concentration, and

that is constituted to perform an oxygen-concentration restoration operation of increasing the oxygen concentration of the internal air of the storage (1) to the reference concentration from the target oxygen concentration range,

the internal air adjustment device comprising:

a controller (50) that is configured to, in the oxygen-concentration restoration operation, regulate at least one of a flow rate and the oxygen concentration of the low-

oxygen-concentration air that is supplied into an interior of the storage (1) or a flow rate of the external air that is supplied into the interior of the storage (1),

wherein the storage (1) is a transport container, and

wherein the controller (50) is configured to define, as at least one condition for starting the oxygen-concentration restoration operation, a condition regarding a time from when a supply of electric power to the internal air adjustment device (40) has been stopped to when a supply of electric power to the internal air adjustment device (40) is started again.

[Claim 4]

An internal air adjustment device that supplies low-oxygen-concentration air having an oxygen concentration lower than an oxygen concentration of external air of a storage (1) to the storage (1), and that maintains an oxygen concentration of internal air of the storage (1) in a target oxygen concentration range lower than a reference concentration, and

that is constituted to perform an oxygen-concentration restoration operation of increasing the oxygen concentration of the internal air of the storage (1) to the reference concentration from the target oxygen concentration range,

the internal air adjustment device comprising:

a controller (50) that is configured to, in the oxygen-

concentration restoration operation, regulate at least one of a flow rate and the oxygen concentration of the low-oxygen-concentration air that is supplied into an interior of the storage (1) or a flow rate of the external air that is supplied into the interior of the storage (1),

a state detector (15) that is configured to detect a state indicator that indicates a state of a perishable (7) stored in the storage (1),

wherein the controller (50) regulates a speed of increase in the oxygen concentration of the internal air in the oxygen-concentration restoration operation based on the state indicator detected by the state detector (15).

[Claim 5]

The internal air adjustment device according to claim 4,

wherein the state detector (15) is configured to detect, as the state indicator that indicates the state of the perishable (7), at least one of an ethylene concentration of the internal air, a sugar content of the perishable (7), an acidity of the perishable (7), and a hardness of the perishable (7).