Claims

[Claim 1]

An air delivery structure of a cooling device for delivering cooling air cooled by the cooling device into a cooling chamber, the air delivery structure comprising:

an inflow port for flowing the cooling air cooled by the cooling device into the cooling chamber;

an outflow port for flowing cooling chamber air that is the cooling air which has circulated inside the cooling chamber out from an inside of the cooling chamber;

a first partition wall that partitions the inside of the cooling chamber into a cooling space and an intake space; and

a second partition wall that partitions the intake space into an inflow channel that communicates with the inflow port and in which the cooling air cooled by the cooling device circulates toward the cooling space and an outflow channel that communicates with the outflow port and in which the cooling chamber air, which has circulated inside the cooling chamber, circulates toward the outflow port,

wherein each of the first partition wall and the second partition wall extends in an up-down direction,

the inflow channel includes an outlet through which the cooling air blows from the intake space,

the outflow channel includes an inlet through which the cooling chamber air is taken into the intake space, and

the inlet of the outflow channel, the inflow port, the outflow port, and the outlet of the inflow channel are positioned in order from up to down.

[Claim 2]

The air delivery structure of a cooling device according to Claim 1,

wherein the first partition wall extends further downward than the second partition wall, and

the second partition wall includes a lower end portion that is positioned below the outflow port and that has a discharge port formed between the lower end portion and the first partition wall.

[Claim 3]

The air delivery structure of a cooling device according to Claim 2,

wherein the lower end portion of the second partition wall approaches the first partition wall toward down side.

[Claim 4]

The air delivery structure of a cooling device according to any one of Claims 1 to 3,

wherein an opening through which the inflow channel and the outflow channel communicate with each other is formed above the inflow port in the second partition wall, and

the air delivery structure further comprises a cover portion that covers the opening in a freely openable and closable manner.

[Claim 5]

The air delivery structure of a cooling device according to any one of Claims 1 to 4, further comprising:

a fin that is provided on a surface of the second partition wall and that is positioned between the inflow port and the outflow port in the up-down direction.

[Claim 6]

A cooling device comprising:

the air delivery structure of a cooling device according to any one of Claims 1 to 5.

[Claim 7]

A cooling system comprising:

a cooling chamber that has a tubular shape;

a cooling device that cools air inside the cooling chamber; and

the air delivery structure of a cooling device according to any one of Claims 1 to 5.