Claims

[Claim 1]

A ship comprising:

a hull;

a tank provided in the hull and capable of storing liquefied carbon dioxide;

an external connection pipe connecting an upper portion in the tank and an outside of the hull;

a circulation pipe of which one end communicates with an inside of the tank and of which the other end communicates with the inside of the tank via an outside of the tank, the one end of the circulation pipe disposed above a liquid level of the liquefied carbon dioxide stored in the tank, in the upper portion in the tank, and the other end of the circulation pipe disposed below the liquid level of the liquefied carbon dioxide stored in the tank; and

a compressor provided in a middle of the circulation pipe outside the tank, pressure-feeding a carbon dioxide gas in the tank from the one end toward the other end, and adiabatic compressing the carbon dioxide gas, wherein

the circulation pipe is configured to return the carbon dioxide gas, the temperature of which risen by adiabatic compression by the compressor, from the other

end to a position below the liquid level in the tank.

[Claim 2]

The ship according to Claim 1,

wherein the external connection pipe branches from the circulation pipe between the one end of the circulation pipe and the compressor.

[Claim 3]

A ship comprising:

a hull;

a tank provided in the hull and capable of storing liquefied carbon dioxide;

an external connection pipe connecting an upper portion in the tank and an outside of the hull;

a loop-shaped circulation pipe provided such that a fluid circulates throughout an inside and an outside of the tank; and

a compressor provided in a middle of the circulation pipe outside the tank and capable of pressure-feeding the fluid in the circulation pipe.

[Claim 4]

The ship according to Claim 3,

wherein a part of the circulation pipe is disposed

below a liquid level of the liquefied carbon dioxide stored in the tank.

[Claim 5]

The ship according to Claim 3 or 4, further comprising:

a connection pipe connecting the circulation pipe and the external connection pipe; and

a connection pipe opening-closing valve opening and closing the connection pipe.

[Claim 6]

The ship according to any one of Claims 1 to 5, further comprising:

a bypass pipe provided to be bypassed from the circulation pipe on a downstream side in a flow direction of the fluid in the circulation pipe with respect to the compressor; and

a cooler provided to the bypass pipe and cooling the fluid that has passed through the compressor.

[Claim 7]

The ship according to any one of Claims 1 to 6, further comprising:

a liquefied gas storage tank provided in the hull

and capable of storing a liquefied gas having a boiling point lower than a boiling point of the liquefied carbon dioxide.