# Claims

[Claim 1]

A floating structure comprising:

a floating main structure;

a tank disposed in the floating main structure and capable of storing liquefied carbon dioxide; and

a loading pipe for discharging liquefied carbon dioxide supplied from an outside into the tank, wherein

the loading pipe includes

a first loading pipe disposed outside the tank and having a first inner diameter, and

a second loading pipe having one end connected to the first loading pipe, extending from the outside to an inside of the tank, extending in a vertical direction inside the tank, having the other end open inside the tank, and a second inner diameter smaller than the first inner diameter.

[Claim 2]

A floating structure comprising:

a floating main structure;

a tank disposed in the floating main structure and capable of storing liquefied carbon dioxide; and

a loading pipe for discharging liquefied carbon dioxide supplied from an outside into the tank, wherein

the loading pipe includes

a first loading pipe disposed outside the tank, and having a first inner diameter, and

a second loading pipe having one end connected to the first loading pipe, extending from the outside above the tank to an inside of the tank, extending in a vertical direction inside the tank, having the other end open inside the tank, and a second inner diameter smaller than the first inner diameter.

[Claim 3]

The floating structure according to Claim 1 or 2, wherein

the loading pipe further includes a third loading pipe having a base connected to the first loading pipe, a tip open inside the tank, and a third inner diameter greater than the second inner diameter.

[Claim 4]

A floating structure comprising:

a floating main structure;

a plurality of tanks disposed in the floating main structure and capable of storing liquefied carbon dioxide;

an unloading pipe provided in each of the plurality of tanks for delivering liquefied carbon dioxide in the tank to an outside of the floating main structure; and

a transfer pipe disposed to straddle between a first tank and a second tank that form the plurality of tanks and allowing an inside of the first tank and an inside of the second tank to

communicate with each other, wherein

the transfer pipe includes

a first transfer pipe disposed on a first tank side and having a first inner diameter, and

a second transfer pipe having one end connected to the first transfer pipe, the other end open inside the second tank, and a second inner diameter smaller than the first inner diameter,

the first transfer pipe includes an intermediate portion disposed on an outside of both the first tank and the second tank and extending in the horizontal direction above the first tank and the second tank, and

the second transfer pipe extends from the outside to the inside of the second tank and extends in a vertical direction in the second tank.

[Claim 5]

The floating structure according to Claim 4, wherein

the transfer pipe further includes a third transfer pipe having a base connected to the first transfer pipe, a tip open inside the second tank, and a third inner diameter greater than the second inner diameter.

[Claim 6]

A method for loading liquefied carbon dioxide in the floating structure according to Claim 3, the method comprising:

a step of loading liquefied carbon dioxide into the tank

from the first loading pipe through the second loading pipe; and

a step of loading liquefied carbon dioxide into the tank from the first loading pipe through the third loading pipe when a liquid level of liquefied carbon dioxide in the tank reaches a predetermined liquid level.

[Claim 7]

A method for unloading liquefied carbon dioxide in the floating structure according to Claim 5, the method comprising:

a step of transferring liquefied carbon dioxide in the first tank from the first transfer pipe into the second tank through the second transfer pipe by pressurizing the inside of the first tank;

a step of transferring liquefied carbon dioxide in the first tank from the first transfer pipe into the second tank through the third transfer pipe when a liquid level of liquefied carbon dioxide in the second tank reaches a predetermined liquid level; and

a step of delivering the liquefied carbon dioxide in the second tank to an outside of the second tank by the unloading pipe.

[Claim 8]

A floating structure comprising:

a floating main structure;

a tank disposed in the floating main structure and capable

of storing liquefied carbon dioxide; and

a loading pipe for discharging liquefied carbon dioxide supplied from an outside into the tank, wherein

the loading pipe includes

a first loading pipe disposed outside the tank and having a first inner diameter,

a second loading pipe having one end connected to the first loading pipe the other end open inside the tank, and a second inner diameter smaller than the first inner diameter, and

the loading pipe further includes a third loading pipe having a base connected to the first loading pipe, a tip open inside the tank, and a third inner diameter greater than the second inner diameter.

[Claim 9]

A floating structure comprising:

a floating main structure;

a plurality of tanks disposed in the floating main structure and capable of storing liquefied carbon dioxide;

an unloading pipe provided in each of the plurality of tanks for delivering liquefied carbon dioxide in the tank to an outside of the floating main structure; and

a transfer pipe disposed to straddle between a first tank and a second tank that form the plurality of tanks and allowing an inside of the first tank and an inside of the second tank to communicate with each other, wherein

the transfer pipe includes

a first transfer pipe disposed on a first tank side and having a first inner diameter, and

a second transfer pipe having one end connected to the first transfer pipe, the other end open inside the second tank, and a second inner diameter smaller than the first inner diameter, and

the transfer pipe further includes a third transfer pipe having a base connected to the first transfer pipe, a tip open inside the second tank, and a third inner diameter greater than the second inner diameter.