[CLAIMS]

【Claim 1】

A bunkering vessel for loading a liquefied gas to or unloading a liquefied gas from a liquefied gas storage tank of a target, comprising:

a bunkering tank storing a liquefied gas;

a manifold provided at a bunkering station of the bunkering vessel to flow in a liquefied gas to and flow out a liquefied gas from the bunkering vessel;

a liquefied gas transfer line connecting the bunkering tank and the manifold to flow a liquefied gas; and

an inert gas supply portion producing an inert gas,

the bunkering vessel supplies an inert gas to the liquefied gas storage tank through the manifold.

【Claim 2】

The bunkering vessel of claim 1, wherein, before loading a liquefied gas to the liquefied gas storage tank, the bunkering vessel supplies an inert gas to the liquefied gas storage tank through the manifold to remove oxygen inside the liquefied gas storage tank.

【Claim 3】

The bunkering vessel of claim 1, wherein, after unloading a liquefied gas from the

liquefied gas storage tank, the bunkering vessel supplies an inert gas to the liquefied gas storage tank through the manifold and receives a discharge gas from the target.

【Claim 4】

The bunkering vessel of claim 2, wherein the liquefied gas transfer line includes:

a liquid phase transfer line transferring a liquefied gas of a liquid phase; and

a gas phase transfer line transferring a liquefied gas of a gas phase,

the bunkering vessel further comprising a gas supply line delivering an inert gas received from the inert gas supply portion to at least one of the liquid phase transfer line and the gas phase transfer line.

【Claim 5】

The bunkering vessel of claim 4, wherein the inert gas is nitrogen gas or a gas generated by combusting heavy oil.

【Claim 6】

The bunkering vessel of claim 4, wherein the gas supply line supplies an inert gas through the liquid phase transfer line when the inert gas is nitrogen gas, and supplies an inert gas through the gas phase transfer line when the inert gas is a gas generated by combusting heavy oil.

【Claim 7】

The bunkering vessel of claim 3, wherein the liquefied gas transfer line includes:

a liquid phase transfer line transferring a liquefied gas of a liquid phase; and

a gas phase transfer line transferring a liquefied gas of a gas phase,

wherein an inert gas is supplied to the liquefied gas storage tank through the liquid phase transfer line, and a discharge gas is received through the gas phase transfer line.

【Claim 8】

The bunkering vessel of claim 7, wherein the gas phase transfer line supplies a discharge gas to at least one of a gas combustion unit, a venting portion, and a buffer tank.

【Claim 9】

The bunkering vessel of claim 8, wherein the discharge gas includes a liquefied gas, and the buffer tank supplies a liquefied gas of a liquid phase to the bunkering tank.