{CLAIMS}

{Claim 1}

A liquid suction device that delivers a liquid as a cargo from an inside of a tank storing the liquid to an outside of the tank, comprising

a pump located in an internal space formed between a partition wall standing upward from a bottom surface of the tank and a side wall forming a part of the tank, or an internal space formed inside a container placed on or near the bottom surface of the tank, for sucking the liquid in the internal space and delivering the liquid to the outside of the tank via a pipe for the delivering,

wherein the partition wall or the container includes an opening portion through which the liquid passes, and a check valve that allows a flow ~~from~~ to an inside of the internal space through the opening portion, and restricts a flow out ~~to~~ from the internal space through the opening portion,

wherein an inflow pipe is provided and the inflow pipe communicates with the opening portion,

wherein the inflow pipe has a proximal end connected to the opening portion and a distal end extending obliquely upward, and

wherein the check valve is provided on a distal end of the inflow pipe.

{Claim 2}

The liquid suction device according to claim 1, wherein at least two check valves are provided along a height direction of the partition wall or the container.

{Claim 3}

The liquid suction device according to claim 1 or 2, wherein a bottom portion of a pipe tower that vertically extends at a center of the tank and houses the pipe for the delivering and the pump is utilized as the container.

~~{Claim 4}~~

~~The liquid suction device according to any one of claims 1 to 3,~~

~~wherein an inflow pipe is provided and the inflow pipe communicates with the opening portion,~~

~~wherein the inflow pipe has a proximal end connected to the opening portion and a distal end extending obliquely upward, and~~

~~wherein the check valve is provided on a distal end of the inflow pipe.~~

{Claim ~~5~~4}

The liquid suction device according to any one of claims 1 to ~~4~~3, wherein a gap adjustment member that adjusts a gap between the partition wall or the container and a valve body that constitutes a part of the check valve is provided along a peripheral edge of the opening portion.

{Claim ~~6~~5}

The liquid suction device ~~according to any one of claims 1 to 5,~~ that delivers a liquid as a cargo from an inside of a tank storing the liquid to an outside of the tank, comprising:

a pump located in an internal space formed between a partition wall standing upward from a bottom surface of the tank and a side wall forming a part of the tank, or an internal space formed inside a container placed on or near the bottom surface of the tank, for sucking the liquid in the internal space and delivering the liquid to the outside of the tank via a pipe for the delivering,

wherein the partition wall or the container includes an opening portion through which the liquid passes, and a check valve that allows a flow to an inside of the internal space through the opening portion, and restricts a flow out from the internal space through the opening portion,

wherein a mass that adds a force to a valve body in an opening direction thereof is mounted via an arm on an upper end of a valve body that constitutes a part of the check valve.

{Claim ~~7~~6}

The liquid suction device ~~according to any one of claims 1 to 5,~~ that delivers a liquid as a cargo from an inside of a tank storing the liquid to an outside of the tank, comprising:

a pump located in an internal space formed between a

partition wall standing upward from a bottom surface of the tank and a side wall forming a part of the tank, or an internal space formed inside a container placed on or near the bottom surface of the tank, for sucking the liquid in the internal space and delivering the liquid to the outside of the tank via a pipe for the delivering,

wherein the partition wall or the container includes an opening portion through which the liquid passes, and a check valve that allows a flow to an inside of the internal space through the opening portion, and restricts a flow out from the internal space through the opening portion,

wherein the partition wall, or a peripheral wall that forms a part of the container stands obliquely upward so that an upper end thereof is closer to the pump than a bottom end thereof.

{Claim ~~8~~7}

The liquid suction device ~~according to any one of claims 1 to 5,~~that delivers a liquid as a cargo from an inside of a tank storing the liquid to an outside of the tank, comprising:

a pump located in an internal space formed between a partition wall standing upward from a bottom surface of the tank and a side wall forming a part of the tank, or an internal space formed inside a container placed on or near the bottom surface of the tank, for sucking the liquid in the internal space and delivering the liquid to the outside of the

tank via a pipe for the delivering,

wherein the partition wall or the container includes an opening portion through which the liquid passes, and a check valve that allows a flow to an inside of the internal space through the opening portion, and restricts a flow out from the internal space through the opening portion,

wherein a pushing member that adds a force to a valve body in an opening direction thereof is mounted on an upper end of the valve body that constitutes a part of the check valve.

{Claim ~~9~~8}

A liquefied natural gas carrier comprising a liquid suction device according to any one of claims 1 to ~~8~~7.

{Claim ~~10~~9}

A floating storage facility comprising a liquid suction device according to any one of claims 1 to ~~8~~7.