needed.

In addition, natural gas has a liquefaction point of -163°C at atmospheric pressure. If a predetermined pressure is applied, the liquefaction point of the natural gas further increases than at the atmospheric pressure. This characteristic may reduce processing steps in a liquefaction process, such as acid gas removal and natural gas liquid (NGL) fractionation. This leads to a reduction in facilities and facility capacity. Therefore, the LNG production costs may be reduced.

However, a conventional LNG storage tank installed in a vessel having a gasification facility or an LNG terminal has a limitation in size. In addition, it is unsuitable for cost-efficient storage of LNG while reflecting the above-described LNG characteristic. It is difficult to easily transport LNG to consumption places according to consumer's various demands.

To solve the above problems, a storage container for storing and carrying general LNG or PLNG pressurized at a predetermined pressure has been developed.

Such LNG storage containers are difficult to transport by a conventional LNG carrier or cargo ship. Therefore, there is a need for developing a carrier that can efficiently and stably transport an LNG storage container and can reduce manufacturing costs and time.

SUMMARY OF THE INVENTION

~~An aspect of~~Embodiments of the present invention ~~is~~are directed to an LNG storage container carrier, which ~~is~~may be capable of efficiently and stably transporting a storage container for storing general LNG or PLNG pressurized at a predetermined pressure.

~~Another aspect~~Embodiments of the present invention ~~is directed~~seek to reduce time and cost for manufacturing an LNG storage container carrier, improving economic feasibility.

According to an ~~embodiment~~aspect of the present invention, an LNG storage container carrier includes: one or more cargo holds provided on a hull such that upper portions thereof are opened; a plurality of first and second upper supports installed on the cargo

holds in a width direction and a length direction to partition the upper portions of the cargo holds into a plurality of openings, wherein storage containers are vertically inserted into the openings ~~and supported;~~ such that upper portions of the storage containers over the openings are exposed to an external environment when the storage containers are carried using the LNG storage container; and a lower support installed under the cargo holds and supporting the bottoms of the storage containers inserted into the openings, wherein the LNG is a pressurized LNG liquefied at a pressure of 13 to 25 bar and a temperature of -120 to -95°C, the storage container has a dual structure, and a connection passage is provided between the dual structure of the storage container and the inside of the storage container in order for pressure balance between an internal pressure of the dual structure of the storage container and an internal pressure of the storage container.

The LNG storage container carrier may further include a plurality of support blocks installed to support sides of the storage containers in some or entire portions of the inner surfaces of the cargo holds and the first and second upper supports.

The support blocks may be provided to support the front and rear and the left and right of the storage containers, and the support blocks may have support planes with a curvature corresponding to a curvature of the outer surfaces of the storage containers.

The lower support may be provide in plurality, the plurality of lower supports may be vertically installed upwardly on the bottom of the cargo holds, and reinforcement members may be installed to maintain the gaps between the lower supports.

A container loading table may be provided to carry container boxes together with the storage containers.

~~The LNG may be a pressurized LNG liquefied at a pressure of 13 to 25 bar and a temperature of -120 to -95°C, and the storage container may have a dual structure. A connection passage may be provided between the dual structure of the storage container and the inside of the storage container in order for pressure balance between an internal~~

~~pressure of the dual structure of the storage container and an internal pressure of the storage container.~~

According to another embodiment of the present invention, an LNG storage container carrier includes: a plurality of first and second upper supports installed on cargo holds provided on a hull such that upper portions of the cargo holds are partitioned into a plurality of openings, wherein storage containers inserted into the openings are supported by the first and second upper supports.

~~The LNG may be a pressurized LNG liquefied at a pressure of 13 to 25 bar and a temperature of -120 to -95°C, and the storage container may have a dual structure. A~~

~~connection passage may be provided between the dual structure of the storage container and the inside of the storage container in order for pressure balance between an internal pressure of the dual structure of the storage container and an internal pressure of the storage container.~~

BRIEF DESCRIPTION OF THE DRAWINGS

FIG. 1 is a flow diagram showing a PLNG producing method according to the present invention.

FIG. 2 is a configuration diagram showing a PLNG production system according to the present invention.

FIG. 3 is a flow diagram showing a PLNG distributing method according to the present invention.

FIG. 4 is a configuration diagram explaining the PLNG distributing method according to the present invention.

FIG. 5 is a side view showing a pressure container used for the PLNG distributing method according to the present invention.

FIG. 6 is a configuration diagram explaining another example of the PLNG distributing method according to the present invention.

FIG. 7 is a perspective view showing an LNG storage tank according to the present invention.

FIG. 8 is a perspective view showing various types of the LNG storage tank according to the present invention.

FIG. 9 is a configuration diagram showing one example of the LNG storage tank according to the present invention.

FIG. 10 is a configuration diagram showing another example of the LNG storage tank according to the present invention.

FIG. 11 is a sectional view showing an LNG storage container according to a first embodiment of the present invention.