

STORAGE CONTAINER FOR LIQUEFIED NATURAL GAS

ABSTRACT OF THE DISCLOSURE

5 A LNG storage container includes: an inner shell made of a metal withstanding a low temperature of the LNG and configured to store the LNG inside; an outer shell made of a steel withstanding an internal pressure of the inner shell and configured to enclosing the outside of the inner shell such that a space is formed between the inner shell and the outer shell; and a heat insulation layer part installed in the space between the inner shell and the outer shell and configured to reduce a heat transfer. Accordingly, it is possible to efficiently store LNG or PLNG pressurized at a predetermined pressure and supply the LNG or PLNG to a consumption place, to reduce manufacturing costs by minimizing the use of a metal having excellent low temperature characteristic, to reduce a thickness of an inner container by minimizing a difference between the internal pressure and external pressure of the inner container, thereby manufacturing the container at low cost, to satisfy consumer's various demands, and to ensure diversity in kinds and sizes of container carriers. Furthermore, it is possible to endure various utilizations according to characteristics of cargos, such as pre-processed natural gas, non-pre-processed natural gas, and refined natural gas. Due to the reduction of the liquefaction process, equipment costs and processing costs may be reduced. Sloshing load, which may occur during transportation of liquid goods, is reduced or negligible.

Fig. 11