However, such positioning involves a problem in that the positioning space for LNG tanks 106 is small and affects the number of the LNG tanks 106.

[0005] Furthermore, when the LNG tanks 106 are positioned in the center of the hull structure 104, it is difficult to ensure the positioning space for the natural gas processing equipment 108 on the broadsides. To address this, it is conceivable to add an overhang in the width direction of the broadsides and position the natural gas processing equipment 108 on the overhang. However, in this case, a new problem arises in that the floating structure 102 becomes large.

[0006] An object of the present invention is to provide a slim floating structure in which natural gas processing equipment is positioned while ensuring a positioning space for tanks.

Solution to Problem

[0007] A floating structure according to the present invention includes:

spherical tanks transferred from an existing LNG cargo ship or an existing floating structure, and positioned continuously in a lengthwise direction of a hull structure; and

a natural gas processing equipment placed on the hull structure and positioned on at least one side among both sides of the tanks in a width direction of the hull structure, wherein

the natural gas processing equipment is positioned on an inside in the width direction of the hull structure.

[0008] In the floating structure according to the present invention,

the natural gas processing equipment is positioned on both sides of the tanks.

[0009] In the floating structure according to the present invention,

the natural gas processing equipment is positioned along a starboard side of the hull structure and a port side of the hull structure.

[0010] In the floating structure according to the present invention,

the natural gas processing equipment includes a pretreatment equipment for pretreating natural gas and a liquefaction equipment for liquefying natural gas,

wherein the pretreatment equipment is positioned at an end of the hull structure in the lengthwise direction, and

the liquefaction equipment is positioned on the inside in the width direction of the hull structure.

[0011] In the floating structure according to the present invention,

the natural gas processing equipment includes a pretreatment equipment for pretreating natural gas and a liquefaction equipment for liquefying natural gas,

wherein the liquefaction equipment is positioned on the inside in the width direction of the hull structure and is provided in two lines, and

one line of the liquefaction equipment is positioned on a starboard side of the hull structure, and another line of the liquefaction equipment is positioned on a port side of the hull structure.

[0012] In the floating structure according to the present invention,

the liquefaction equipment and the tanks are connected through pipes for feeding liquefied natural gas liquefied by the liquefaction equipment to the tanks.

[0013] In the floating structure according to the present invention,

the tanks include six or more tanks continuously positioned in the lengthwise direction of the hull structure.

[0014] Advantageous Effects of Invention

[0015] According to the present invention, a slim floating structure can be provided in which natural gas processing equipment is positioned while ensuring a positioning space for LNG tanks that store liquefied natural gas.

CLAIMS

1. A floating structure comprising:

spherical tanks transferred from an existing LNG cargo ship or an existing floating structure, and positioned continuously in a lengthwise direction of a hull structure; and

a natural gas processing equipment placed on the hull structure and positioned on at least one side among both sides of the tanks in a width direction of the hull structure, wherein

the natural gas processing equipment is positioned on an inside in the width direction of the hull structure.

2. The floating structure according to claim 1, wherein

the natural gas processing equipment is positioned on both sides of the tanks.

3. The floating structure according to claim 1 or 2, wherein

the natural gas processing equipment is positioned along a starboard side of the hull structure and a port side of the hull structure.

4. The floating structure according to any one of claims 1 to 3, wherein

the natural gas processing equipment includes a pretreatment equipment for pretreating natural gas and a liquefaction equipment for liquefying natural gas,

wherein the pretreatment equipment is positioned at an end of the hull structure in the lengthwise direction, and

the liquefaction equipment is positioned on the inside in the width direction of the hull structure.

5. The floating structure according to any one of claims 1 to 4, wherein

the natural gas processing equipment includes a pretreatment equipment for pretreating

natural gas and a liquefaction equipment for liquefying natural gas,

wherein the liquefaction equipment is positioned on the inside in the width direction of the hull structure and is provided in two lines, and

one line of the liquefaction equipment is positioned on a starboard side of the hull structure, and another line of the liquefaction equipment is positioned on a port side of the hull structure.

6. The floating structure according to claim 4 or 5, wherein

the liquefaction equipment and the tanks are connected through pipes for feeding liquefied natural gas liquefied by the liquefaction equipment to the tanks.

7. The floating structure according to any one of claims 1 to 6, wherein

the tanks include six or more tanks continuously positioned in the lengthwise direction of the hull structure.