CLAIMS

[Claim 1] A LNG ship comprising

a LNG storage tank of a membrane type,

wherein the tank is composed of a main tank formed in a space of each quarter surrounded by a multiple hull and a box-shaped head tank provided on a deck right above the tank and smaller in width than the main tank, and the main tank and the head tank communicate with each other via a hole opened in the upper deck.

[Claim 2] A LNG ship comprising

a self-supporting prismatic LNG storage tank,

wherein the tank is composed of a main tank formed in a space of each quarter surrounded by a multiple hull and a box-shaped head tank provided on a deck right above the tank and smaller in width than the main tank, and the main tank and the head tank communicate with each other via a hole opened in the upper deck.

[Claim 3] The LNG ship according to claim 1 or 2, wherein the width of the head tank is within a range of 50 percent to 70 percent of the width of the main tank.

[Claim 4] The LNG ship according to claim 1 or 2, wherein a height of the head tank is within a range of 20 percent to 60 percent of the width of the head tank.

[Claim 5] The LNG ship according to claim 1 or 2, wherein left and right longitudinal bulkheads are provided in a space surrounded by the double hull structure and the upper deck, the space is divided by the longitudinal bulkheads into three sections, namely, a center section and left and right side sections, and the main part tank is formed in the center section.

[Claim 6] The LNG ship according to claim 5, wherein the side section is formed so as to be a condensate tank.

[Claim 7] The LNG ship according to claim 5, wherein the side section is formed so as to be a deep tank for ballast.

[Claim 8] The LNG ship according to claim 1, 2, 3, 4, 5, or 6,

comprising a LNG production plant and being used as a LNG-FPSO.

[Claim 9] The LNG ship according to claim 8, comprising at least one independent LNG storage tank in addition to the LNG tank of the membrane type.

[Claim 10] The LNG ship according to claim 1, 2, 3, 4, 5, or 7, being used for carrying LNG.

CLAIMS

[Claim 1] A LNG ship comprising:

a LNG storage tank of a membrane type,

wherein the tank is composed of a main tank formed in a space of each quarter surrounded by a multiple hull and a box-shaped head tank provided so as to extend above an upper deck right above the main tank and smaller in width than the main tank, and the main tank and the head tank communicate with each other via a hole opened in the upper deck;

a width of the head tank is within a range of 50 percent to 70 percent of a width of the main tank; and

a height of the head tank is within a range of 20 percent to 60 percent of the width of the head tank.

[Claim 2] A LNG ship comprising:

a self-supporting prismatic LNG storage tank,

wherein the tank is composed of a main tank formed in a space of each quarter surrounded by a multiple hull and a box-shaped head tank provided so as to extend above an upper deck right above the tank and smaller in width than the main tank, and the main tank and the head tank communicate with each other via a hole opened in the upper deck;

a width of the head tank is within a range of 50 percent to 70 percent of a width of the main tank; and

a height of the head tank is within a range of 20 percent to 60 percent of the width of the head tank.

[Claim 3] The LNG ship according to claim 1 or 2, wherein left and right longitudinal bulkheads are provided in a space surrounded by the double hull structure and the upper deck, the space is divided by the longitudinal bulkheads into three sections, namely, a center section and left and right side sections, and the main part tank is formed in the center section.

[Claim 4] The LNG ship according to claim 3, wherein the side section is formed so as to be a condensate tank.

[Claim 5] The LNG ship according to claim 3, wherein the side section is formed so as to be a deep tank for ballast.

[Claim 6] The LNG ship according to claim 1 comprising a LNG production plant and being used as a LNG-FPSO.

[Claim 7] A LNG ship, comprising

a LNG storage tank of a membrane type,

wherein the tank is composed of a main tank formed in a space of each quarter surrounded by a multiple hull and a box-shaped head tank provided so as to extend above an upper deck right above the main tank and smaller in width than the main tank, and the main tank and the head tank communicate with each other via a hole opened in the upper deck;

a width of the head tank is within a range of 50 percent to 70 percent of a width of the main tank;

a height of the head tank is within a range of 20 percent to 60 percent of the width of the head tank; and

at least one independent LNG storage tank in addition to the LNG tank of the membrane type.

[Claim 8] The LNG ship according to claim 1 being used for carrying LNG.