

ABSTRACT

RISER RACK STRUCTURE

The present invention relates to a riser rack structure. The riser rack structure includes riser racks having a cantilever shape and supporting and fixing a riser, and a riser rack reinforcement part coupled to at least two of the riser racks and reinforcing the riser racks, wherein the riser rack reinforcement part comprises: rack connection units connecting the riser racks, and a reinforcement connection unit connected to the rack connection units and separated from the riser racks, wherein the reinforcement connection unit is connected perpendicularly to at least two of the rack connection units.

In a riser rack structure according to the present invention, the strength and rigidity of a conventional riser rack structure is increased by additionally connecting a riser rack reinforcement part having a comb shape, such as a U-shape, an E-shape, or a combination thereof, to the conventional riser rack structure. Therefore, when a ship leans to one side according to the marine environment, riser racks may withstand more horizontal component applied thereto with respect to the weight of risers. Thus, the riser racks may not be added to significantly reduce the number of riser racks. The decrease in number of riser racks may reduce the weight of the ship, increase stability and significantly increase the number of risers loaded.

FIG. 2B