

ABSTRACT

Portable cargo handling equipment for liquid hydrogen is located between a ship-side cryogenic tank and a land-side cryogenic tank and transfers the liquid hydrogen from one of the ship-side cryogenic tank and the land-side cryogenic tank to the other. The portable cargo handling equipment includes: a liquid hydrogen pipe through which the liquid hydrogen is guided and which includes a first joint connectable to an end portion of a ship-side liquid pipe extending from the ship-side cryogenic tank and a second joint connectable to an end portion of a land-side liquid pipe extending from the land-side cryogenic tank; an emergency release coupling located at the liquid hydrogen pipe; a shutoff valve located at a portion of the liquid hydrogen pipe which is located between the emergency release coupling and the second joint; and an atmosphere open structure including an atmosphere open passage including one end communicating with a portion of the liquid hydrogen pipe which is located between the first joint and the shutoff valve, and the other end that is open to an atmosphere, an on-off valve that opens and closes the atmosphere open passage; and a heater that is located at the atmosphere open passage and heats the liquid hydrogen guided by the atmosphere open passage or a hydrogen gas generated by evaporation of the liquid hydrogen and guided by the atmosphere open passage.