

ABSTRACT

An intermediate fluid type vaporizer (10) is provided with an intermediate medium evaporator (E1) including a heat transfer tube (20) through which seawater flows, and configured to evaporate at least a part of an intermediate medium (M) in the form of a liquid on the outside of the heat transfer tube (20) by heat exchange between the seawater flowing through the heat transfer tube (20), and the intermediate medium (M); and an LNG evaporator (E2) including a heat transfer tube (40) through which LNG flows, and configured to vaporize the LNG flowing through the heat transfer tube (40) by condensing the intermediate medium (M) evaporated in the intermediate medium evaporator (E1) on the outside of the heat transfer tube (40). The heat transfer tube (20) of the intermediate medium evaporator (E1) is made of titanium or a titanium alloy. The outer circumferential surface of the heat transfer tube (20) is formed with grooves having cavities for communicating with the outside via gaps formed in the outer surface of the heat transfer tube (20).