

LIQUEFIED GAS REGASIFICATION SYSTEM AND METHOD FOR VESSEL

【ABSTRACT】

The present invention relates to a system and method for regasification of liquefied gas for vessels, which generates power by recovering cold heat discarded in regasification of liquefied gas to improve energy efficiency. The liquefied-gas regasification system for vessels includes: a vaporizer gasifying liquefied gas into a regasified gas through heat exchange with a first heating medium; a trim heater heating the regasified gas to a temperature required for a gas consumer through heat exchange with a second heating medium when the regasified gas is delivered from the vaporizer to the gas consumer; a first cycle in which the first heating medium is circulated; and a second cycle in which the second heating medium is circulated, wherein the first cycle includes a first heat exchanger gasifying the first heating medium to be supplied to the vaporizer through heat exchange with a heat source; and an expander-generator generating power through expansion of the first heating medium gasified by the first heat exchanger, and the second cycle includes a second heat exchanger heating the second heating medium to be supplied to the trim heater through heat exchange with a heat source.

Figure 1