

ABSTRACT

Provided is a liquefied gas treatment system for a vessel, which includes a cargo tank storing liquefied natural gas, and an engine using the liquefied natural gas stored in the cargo tank as fuel. The liquefied gas treatment system includes: a first stream of boil-off gas, which is generated from the liquefied natural gas in the cargo tank and is discharged from the cargo tank; a second stream of the boil-off gas, which is supplied as fuel to the engine in the first stream; and a third stream of the boil-off gas, which is not supplied to the engine in the first stream. The first stream is compressed in a compressor and is then branched into the second stream and the third stream. The third stream is liquefied by exchanging heat with the first stream in a heat exchanger, so that the boil-off gas is treated without employing a reliquefaction apparatus using a separate refrigerant.

(FIG. 2)