

ABSTRACT

FUEL GAS SUPPLY SYSTEM

A fuel gas supply system is disclosed. A fuel gas supply system according to an embodiment of the present invention comprises: a storage unit for receiving a liquefied gas and a boil-off gas generated therefrom; a compression unit for pressurizing the boil-off gas generated in the storage unit and delivering pressurized boil-off gas; a recondensation unit for recondensing the boil-off gas pressurized in the compression unit by using a supercooled liquefied gas of the storage unit; a high pressure pump unit, installed on a consumer supply line connecting the recondensation unit and a consumer, for pressurizing a liquefied gas of the recondensation unit at a consumer pressure demand or more; and a heat-exchange unit including a vaporizer for re-vaporizing the liquefied gas pressurized in the high pressure pump unit by heating. The recondensation unit includes: a first condensation unit for mixing the liquefied gas delivered from the storage unit and the boil-off gas pressurized in the compression unit to recondense the boil-off gas; and a second condensation unit for allowing the liquefied gas, which has been pressurized in the high pressure pump unit and then delivered, and the boil-off gas pressurized in the compression unit to exchange heat with each other to recondense the boil-off gas.

[FIG.1]