

【ABSTRACT】

The present invention relates to a system and a method for supplying a fuel in a liquefied natural gas fueled ship to which an engine using liquefied natural gas as a fuel is applied, wherein a pump and a regasification facility are used to supply a liquefied natural gas fuel, without the aid of a compressor, in compliance with fuel supply conditions of the engine. A system for supplying a fuel in a liquefied natural gas fueled ship according to the present invention comprises: an Otto cycle engine using liquefied natural gas as a fuel and operating according to an Otto cycle; a high-pressure pump for pressurizing liquefied natural gas which has been discharged from a storage tank; a gasifier for gasifying the liquefied natural gas which has been pressurized by the high-pressure pump; an expansion valve for expanding the natural gas which has been gasified by the gasifier; and a gas-liquid separator for separating gas and liquid from a gas-liquid mixture formed by the expansion valve, wherein the liquid separated in the gas-liquid separator is recovered into a storage tank, the gas separated in the gas-liquid separator is supplied as a fuel for the Otto cycle engine, thereby adjusting the methane number of a natural gas fuel supplied to the Otto cycle engine.

Fig. 2