SYSTEM USING COLD ENERGY

ABSTRACT

According to one aspect of the present invention, there is provided a system using cold energy, the system comprising: a liquefied gas storage unit configured to store a liquefied gas; a primary loop configured to circulate a first intermediate medium to which cold energy of the liquefied gas has been transferred; and a secondary loop configured to circulate a second intermediate medium for which a heat exchange with the first intermediate medium has occurred in at least one heat exchange unit interworking with the primary loop, wherein the primary loop comprises: a first heat exchange unit configured to cause the cold energy of the liquefied gas to be transferred to the first intermediate medium so that a 1-1th heat exchange occurs between the liquefied gas and the first intermediate medium; and a first intermediate medium storage unit configured to store the first intermediate medium for which the 1-1th heat exchange has occurred, and capable of being switched from a closed state to an open state or from an open state to a closed state, and wherein the at least one heat exchange unit causes a heat exchange to occur between the first intermediate medium and the second intermediate medium in a state in which the first intermediate medium is stored in the first intermediate medium storage unit.

(FIG. 9)