TECHNIP FRANCE

Method for processing a stream of LNG obtained by means of cooling using a first refrigeration cycle and associated installation.

ABSTRACT

In this method, the LNG stream (11) is cooled using a refrigerating fluid (83) in a first heat-exchanger (19). The refrigerating fluid (83) is subjected to a second semi-open refrigeration cycle (21) which is independent of the first cycle (15). The method comprises a step for introducing the stream (59) of sub-cooled LNG into a distillation column (49) and a step for recovering a stream (69) of gas at the top of the column (49).

The second refrigeration cycle (21) comprises a step for forming a stream (73) of refrigerating fluid from a portion of the top stream (69) of gas, a step for compressing the stream of refrigerating fluid (73) to a high pressure, then a step for expanding a portion (81) of the stream (75) of compressed refrigerating fluid in order to form a substantially liquid sub-cooling stream (83). The substantially liquid stream (83) is evaporated in the first heat-exchanger (19).

Figure 1.