

Title (en)  
METHOD AND APPARATUS FOR PRE-HEATING LNG BOIL-OFF GAS TO AMBIENT TEMPERATURE PRIOR TO COMPRESSION IN A RELIQUEFACTION SYSTEM

Title (de)  
VERFAHREN UND VORRICHTUNG ZUM VORERWÄRMEN VON BOIL-OFF-FLÜSSIGERD GAS AUF UMGEBUNGSTEMPERATUR VOR DER KOMPRIMIERUNG IN EINEM VERFLÜSSIGUNGSSYSTEM

Title (fr)  
PROCÉDÉ ET APPAREIL PERMETTANT DE PRÉCHAUFFER UN GAZ NATUREL LIQUÉFIÉ D'ÉVAPORATION À LA TEMPÉRATURE AMBIANTE AVANT SA COMPRESSION DANS UN SYSTÈME DE RELIQUÉFACTION

Publication  
**EP 2005094 B1 20191030 (EN)**

Application  
**EP 07747584 A 20070402**

Priority  
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Abstract (en)  
[origin: WO2007117148A1] A method and an apparatus of pre-heating LNG boil-off gas (BOG) stream (1) flowing from a reservoir (74) in a reliquefaction system, prior to compression (C11, C12, C13). The method comprises heat exchanging the BOG stream in a first heat exchanger (H10), against a second coolant stream (59) having a higher temperature than the BOG stream (1), where the second coolant stream (59) is obtained by selectively splitting a first coolant stream (56) into said second coolant stream (59) and a third coolant stream (57), said third coolant stream being flowed into a first coolant passage in a reliquefaction system cold box (H20), whereby the BOG has reached near-ambient temperatures prior to compression and the low temperature duty from the BOG is substantially preserved within the reliquefaction system, and thermal stresses in the cold box (H20) are reduced. Prior to the compression step, the BOG is pre-heated to substantially ambient temperatures, by heat exchanging (H10) the BOG with said coolant, said coolant prior to the heat exchange having a higher temperature than the BOG.

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