

Title (en)

Operation control method for BOG multistage displacement compressor

Title (de)

Betriebssteuerungsverfahren für einen Mehrstufen-Verdrängungskompressor

Title (fr)

Procédé de contrôle de fonctionnement pour compresseur BOG de déplacement à phases multiples

Publication

EP 2461038 A2 20120606 (EN)

Application

EP 11190467 A 20111124

Priority

JP 2010271577 A 20101206

Abstract (en)

Provided is an operation control method for a BOG multistage displacement compressor including connected multiple displacement compression units (9,10) for compressing boil off gas (BOG) generated from liquefied natural gas, including: under a predetermined state, performing operation control so that the ratio (load ratio) of a load of a low-pressure stage compression unit (9) to a load of a high-pressure stage compression unit (10) in the BOG multistage displacement compressor is larger than load ratios under states other than the predetermined state. Namely, the BOG multistage displacement compressor is configured so that suction temperature in the low-pressure stage compression unit (9) can be detected, and the predetermined state is set to a state where the detected temperature of the suction temperature is equal to or higher than a set temperature that is preset. According to such a method, even if the low-pressure stage side suction gas has a temperature higher than that in steady operation, the load (gas load) due to a differential pressure between suction gas and discharge gas on the high-pressure stage side can be prevented from exceeding an allowable gas load.

IPC 8 full level

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CPC (source: EP)

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Citation (applicant)

JP 2002213366 A 20020731 - KOBEL STEEL LTD

Cited by

EP3623629A1; US11255327B2; US10273958B2; WO2019015489A1

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