

Title (en)
MODULAR COMPRESSION APPARATUS AND METHOD

Title (de)
MODULARE KOMPRESSIONSVORRICHTUNG UND VERFAHREN

Title (fr)
APPAREIL ET PROCÉDÉ DE COMPRESSION MODULAIRE

Publication
EP 4036454 A1 20220803 (EN)

Application
EP 21315012 A 20210128

Priority
EP 21315012 A 20210128

Abstract (en)
The invention relates to a method for providing pressurized gas from a source of liquefied gas to a consumer, wherein vaporized gas is supplied via a first line from the source of liquefied gas to a compressor arrangement for pressurizing the vaporized gas, the compressor arrangement comprising a first screw compressor module and a second screw compressor module which are designed according to the redundancy concept each comprising an own screw compressor, an own motor for driving the screw compressor and further own equipment being necessary for driving the motor and the screw compressor, wherein the first screw compressor module, being arranged at the first line and being fed with vaporized gas via the first line, is arranged in parallel to the second screw compressor module, the second screw compressor module being arranged at a bypass-line, the bypass-line branching off the first line upstream of the second screw compressor module, wherein the compressor arrangement is operated such that in a first mode of operation the vaporized gas is fed through the first line to the first screw compressor module and through the bypass-line to the second screw compressor module and the first screw compressor module and the second compressor module are in operation, and in a second mode of operation, the bypass-line is closed with a valve at a position upstream of the second screw compressor module and the second screw compressor module is not in operation.

IPC 8 full level
F17C 5/06 (2006.01)

CPC (source: EP KR)
F17C 5/06 (2013.01 - EP KR); **F17C 9/00** (2013.01 - KR); **F17C 2201/052** (2013.01 - EP KR); **F17C 2201/054** (2013.01 - EP KR); **F17C 2205/0326** (2013.01 - EP KR); **F17C 2221/033** (2013.01 - EP KR); **F17C 2223/0161** (2013.01 - EP KR); **F17C 2223/033** (2013.01 - EP KR); **F17C 2225/0123** (2013.01 - EP KR); **F17C 2225/036** (2013.01 - EP KR); **F17C 2227/0164** (2013.01 - EP KR); **F17C 2227/0185** (2013.01 - EP KR); **F17C 2265/032** (2013.01 - EP KR); **F17C 2265/066** (2013.01 - EP KR); **F17C 2270/0105** (2013.01 - EP KR)

Citation (search report)

- [X] EP 3508773 A1 20190710 - CRYOSTAR SAS [FR]
- [A] KR 20180011633 A 20180202 - HYUN DAI HEAVY IND CO LTD [KR]
- [A] US 2011240139 A1 20111006 - DING DENIS [US], et al

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 4036454 A1 20220803; CN 116745553 A 20230912; EP 4285047 A1 20231206; JP 2024505845 A 20240208; KR 20230134121 A 20230920; WO 2022161589 A1 20220804

DOCDB simple family (application)
EP 21315012 A 20210128; CN 202180090162 A 20211215; EP 2021025502 W 20211215; EP 21839820 A 20211215; JP 2023544247 A 20211215; KR 20237025036 A 20211215