

Title (en)
DEVICE AND METHOD FOR COMPRESSING A LOW-PRESSURE GAS

Title (de)
VORRICHTUNG UND VERFAHREN ZUM VERDICHTEN EINES NIEDERDRUCKGASES

Title (fr)
DISPOSITIF ET PROCÉDÉ DE COMPRESSION D'UN GAZ À BASSE PRESSION

Publication
EP 3803118 A1 20210414 (FR)

Application
EP 19742827 A 20190524

Priority
• FR 1854530 A 20180528
• FR 2019051201 W 20190524

Abstract (en)
[origin: WO2019229339A1] The device (100) for compressing a low-pressure gas comprises: - at least one compression chamber (105) comprising:
- a low-pressure gas inlet (110); - a high-pressure gas outlet (115); - a liquid inlet (120); - a liquid outlet (125); and - a piston (130) located between the gas inlet and outlet, on the one hand, and the liquid inlet and outlet, on the other hand; - a liquid movement means (135) positioned on a liquid circuit connecting a liquid outlet and a liquid inlet of a compression chamber; and - a means (165) for measuring the pressure of the gas inside the compression chamber and a circuit (160) for recirculating the gas towards the inlet of a compression chamber when the measured pressure is below a determined limit value.

IPC 8 full level
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CPC (source: EP US)
F04B 31/00 (2013.01 - EP US); **F04B 35/00** (2013.01 - EP); **F04B 49/24** (2013.01 - US); **F04B 51/00** (2013.01 - US)

Citation (search report)
See references of WO 2019229339A1

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FR 3081518 A1 20191129; FR 3081518 B1 20220624; CN 112204253 A 20210108; EP 3803118 A1 20210414; EP 3803118 B1 20230208; PT 3803118 T 20230509; US 2021207591 A1 20210708; WO 2019229339 A1 20191205

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