

Title (en)

PROCESS AND APPARATUS FOR SUPPLYING A BACKUP GAS UNDER PRESSURE

Title (de)

VERFAHREN UND VORRICHTUNG ZUM ZUFÜHREN EINES STÜTZGASES UNTER DRUCK

Title (fr)

PROCESSUS ET APPAREIL POUR FOURNIR UN GAZ DE SECOURS SOUS PRESSION

Publication

EP 3914870 A4 20220907 (EN)

Application

EP 19912167 A 20190125

Priority

CN 2019073114 W 20190125

Abstract (en)

[origin: WO2020150988A1] A process and a system for supplying a backup gas at a higher pressure from a source gas at a lower pressure. The backup gas at the lower pressure is at least partially condensed against a backup liquid at a higher pressure in a reprocessing heat exchanger (12) and as a result, the backup liquid is at least partially vaporized. The backup liquid at the higher pressure is formed from boosting liquefied backup gas at the lower pressure. A backup vaporizer (13) is disposed downstream of the reprocessing heat exchanger (12) to completely vaporize the backup liquid at a higher pressure before it was delivered to the customer. The process and system eliminate the use of costly gas compressor and mitigates associated safety risks, in particular when the backup gas is oxygen.

IPC 8 full level

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CPC (source: EP US)

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DOCDB simple family (application)

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