

Title (en)

GAS SEPARATION HAVING A MEMBRANE SEPARATION UNIT

Title (de)

GASTRENNUNG MIT EINER MEMBRANTRENNEINHEIT

Title (fr)

SÉPARATION DE GAZ À L'AIDE D'UNE UNITÉ DE SÉPARATION À MEMBRANE

Publication

EP 2953706 A1 20151216 (DE)

Application

EP 14700253 A 20140108

Priority

- EP 13153972 A 20130205
- EP 2014050226 W 20140108
- EP 14700253 A 20140108

Abstract (en)

[origin: EP2762220A1] The method involves reducing a carbon dioxide-portion in lean gas and/or exchanging gas portions in the lean gas against oxygen in a membrane separation unit (1). A retentate is subsequently utilized in an utilization unit, which is provided downstream to the membrane separation unit on a retentate side. A permeate of the membrane separation unit is mixed to hot exhaust gas of the utilization unit, and reoxidized. A partial pressure difference between the permeate and the retentate in the membrane separation unit is increased by pressurization of feed gas. An independent claim is also included for a device for performing a method for utilization of lean gas.

IPC 8 full level

B01D 53/22 (2006.01); **B01D 53/30** (2006.01); **B01D 53/38** (2006.01); **C10L 3/10** (2006.01); **F02B 43/00** (2006.01)

CPC (source: EP)

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Y02C 20/20 (2013.01); **Y02C 20/40** (2020.08); **Y02E 50/30** (2013.01)

Citation (search report)

See references of WO 2014121964A1

Designated contracting state (EPC)

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Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 2762220 A1 20140806; EP 2762220 B1 20200318; DK 2762220 T3 20200622; EP 2953706 A1 20151216; WO 2014121964 A1 20140814

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