

Title (en)

CARBON DIOXIDE ABSORBER PARTIAL PUMPAROUND FOR COOLING SEMI-LEAN PHYSICAL SOLVENT

Title (de)

PARTIALRUNDUMPUMPE FÜR EINEN KOHLENDIOXIDABSORBER ZUR KÜHLUNG EINES HALBMAGEREN PHYSIKALISCHEN LÖSUNGSMITTELS

Title (fr)

POMPAGE PARTIEL À ABSORBEUR DE DIOXYDE DE CARBONE POUR REFROIDIR UN SOLVANT PHYSIQUE SEMI-PAUVRE

Publication

EP 2291229 A4 20111221 (EN)

Application

EP 09770599 A 20090429

Priority

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- US 7583908 P 20080626

Abstract (en)

[origin: WO2009158064A2] The present invention provides for removal of carbon dioxide and hydrogen sulfide from a synthesis gas stream. A partial pumparound is provided to cool a portion of the solvent leaving the bottom of the carbon dioxide absorber. This allows for a reduction in the solvent circulation rate and associated equipment sizes.

IPC 8 full level

B01D 53/14 (2006.01); **C01B 32/50** (2017.01); **C10L 3/10** (2006.01)

CPC (source: EP KR)

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Citation (search report)

- [X] US 4568364 A 19860204 - GALSTAUN LIONEL S [US], et al
- [X] US 4552572 A 19851112 - GALSTAUN LIONEL S [US]
- [X] US 6090356 A 20000718 - JAHNKE FREDERICK C [US], et al
- [X] US 4561869 A 19851231 - GAZZI LUIGI [IT], et al
- [AP] WO 2008103467 A1 20080828 - FLUOR TECH CORP [US], et al
- [A] EP 0053424 A1 19820609 - BRITISH GAS CORP [GB]
- See references of WO 2009158064A2

Designated contracting state (EPC)

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DOCDB simple family (publication)

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DOCDB simple family (application)

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