

Title (en)

SYSTEM AND PROCESS FOR THE PHYSICAL ABSORPTION OF CARBON DIOXIDE FROM A FLUE GAS STREAM

Title (de)

SYSTEM UND VERFAHREN ZUR PHYSIKALISCHEN ABSORPTION VON KOHLENDIOXID AUS EINEM RAUCHGASSTROM

Title (fr)

SYSTÈME ET PROCÉDÉ D'ABSORPTION PHYSIQUE DU DIOXYDE DE CARBONE CONTENU DANS UN FLUX DE GAZ DE CARNEAU

Publication

EP 2683462 A2 20140115 (EN)

Application

EP 12711448 A 20120308

Priority

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- US 201213414132 A 20120307
- IB 2012000449 W 20120308

Abstract (en)

[origin: US2012227440A1] Disclosed herein is a system comprising a first heat exchanger; the first heat exchanger being operative to reduce a temperature of a carbon dioxide rich flue gas stream to about -100 to about -60 C; an absorber; the absorber being located downstream of the first heat exchanger; wherein the absorber facilitates contact between the flue gas stream and a solvent to form a carbon dioxide rich solvent stream; the solvent being operative to selectively absorb carbon dioxide over other gases present in the flue gas stream; and a valve; the valve being located downstream of the absorber; the valve being operative to reduce a pressure on the carbon dioxide rich solvent stream to produce carbon dioxide and a lean carbon dioxide solvent stream.

IPC 8 full level

B01D 53/14 (2006.01)

CPC (source: EP US)

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Citation (search report)

See references of WO 2012120370A2

Citation (examination)

US 2863527 A 19581209 - WILHELM HERBERT, et al

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