

Title (en)

CO2 CAPTURE WITH CARBONIC ANHYDRASE AND MEMBRANE FILTRATION

Title (de)

CO2-ERFASSUNG MIT CARBOANHYDRASE UND MEMBRANFILTRATION

Title (fr)

CAPTURE DE CO2 AVEC UNE ANHYDRASE CARBONIQUE ET UNE FILTRATION SUR MEMBRANE

Publication

EP 2776143 A1 20140917 (EN)

Application

EP 12846957 A 20121113

Priority

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- CA 2012050802 W 20121113

Abstract (en)

[origin: WO2013067648A1] The method for CO2 capture includes operating a CO2 capture system with a large temperature swing in between the absorption stage and the desorption stage; utilizing a hybrid solvent comprising water, carbonic anhydrase and an absorption compound in the absorption stage; membrane filtering the carbonic anhydrase out of the hybrid solvent in between the absorption stage and the desorption stage and prior to the large temperature swing; and recycling the filtered carbonic anhydrase back into the absorption stage to maintain high enzyme concentration in the absorption stage.

IPC 8 full level

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