

Title (en)

GAS SEPARATION METHOD AND APPARATUS USING PARTIAL PRESSURE SWING ADSORPTION

Title (de)

GASTRENNUNGSVERFAHREN UND -VORRICHTUNG UNTER VERWENDUNG TEILWEISER DRUCKSCHWINGUNGSADSORPTION

Title (fr)

METHODE DE SEPARATION DE GAZ ET APPAREIL FAISANT APPEL A UNE ADSORPTION PARTIELLE MODULEE EN PRESSION

Publication

EP 1909945 A1 20080416 (EN)

Application

EP 06800265 A 20060724

Priority

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- US 18811805 A 20050725
- US 18812005 A 20050725

Abstract (en)

[origin: WO2007014129A1] A four-step partial pressure swing adsorption method and apparatus is provided for gas separation, such as for recovering fuel from the fuel exhaust of a fuel cell stack. A method of operating a fuel cell system includes providing a fuel inlet stream into a fuel cell stack, operating the fuel cell stack to generate electricity and a hydrogen containing fuel exhaust stream, separating at least a portion of hydrogen contained in the fuel exhaust stream using partial pressure swing adsorption, and providing the hydrogen separated from the fuel exhaust stream into the fuel inlet stream.

IPC 8 full level

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CPC (source: EP)

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