

Title (en)

METHOD FOR SEPARATING CARBON DIOXIDE FROM FLUE GASES AND ASSOCIATED DEVICE

Title (de)

VERFAHREN ZUR ABTRENNUNG VON KOHLENDIOXID AUS RAUCHGASEN UND ZUGEHÖRIGE VORRICHTUNG

Title (fr)

PROCÉDÉ DE SÉPARATION DE DIOXYDE DE CARBONE DE GAZ DE COMBUSTION ET DISPOSITIF ASSOCIÉ

Publication

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Application

EP 08774407 A 20080627

Priority

- EP 2008058240 W 20080627
- DE 102007030069 A 20070629

Abstract (en)

[origin: WO2009003929A1] Adsorption methods for separating carbon dioxide (CO₂) from flue gases are known. According to the invention, the CO₂ is placed on an adsorber and an adsorption reaction with ammonia, that is used as a chemical absorption agent, takes place. The CO₂ extracted from the waste gas is joined to the ammonia on the catalytic surface thereof by means of a heterogeneous, catalytic reaction. At least two reactors (10, 10', 20, 20'; 30, 30') are provided in the associated device, said reactors, which operate alternately, being switched between the adsorption of CO₂ and the regeneration of the absorption agent.

IPC 8 full level

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CPC (source: EP US)

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Citation (search report)

See references of WO 2009003929A1

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