

Title (en)

METHOD FOR TREATING A GAS FLOW COMPRISING CARBON DIOXIDE FROM A LARGE COMBUSTION PLANT

Title (de)

VERFAHREN ZUR BEHANDLUNG EINES KOHLENDIOXIDHALTIGEN GASSTROMS AUS EINER GROSSFEUERUNGSANLAGE

Title (fr)

PROCÉDÉ DE TRAITEMENT D'UN COURANT DE GAZ CONTENANT DU DIOXYDE DE CARBONE PROVENANT D'UNE GRANDE INSTALLATION DE COMBUSTION

Publication

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Application

EP 09760767 A 20091126

Priority

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Abstract (en)

[origin: CA2743718A1] The invention relates to a method and to a device for treating a gas flow comprising carbon dioxide from a large combustion plant, particularly a power plant. The gas flow is separated in a carbon dioxide scrubbing stage R into a partial gas flow having increased carbon dioxide content and a partial gas flow having reduced carbon dioxide content. The partial gas flow having increased carbon dioxide content is fed into a further processing and/or storage unit S. In particular, by compressing the carbon dioxide in the bedrock, the emission of climate-damaging gases can be reduced. In order to increase the proportion of compressible CO₂, the invention proposes that the partial gas flow having reduced carbon dioxide content is fed into a pressure swing adsorption stage PSA, wherein a fraction rich in carbon dioxide and a fraction having low carbon dioxide content are generated. The fraction rich in carbon dioxide is fed back into the carbon dioxide scrubbing stage R, or fed directly into the further processing and/or storage unit S.

IPC 8 full level

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