Title (en)

METHOD AND APPARATUS FOR THE REMOVAL OF CARBON DIOXIDE FROM A GAS STREAM

Title (de)

VERFAHREN UND VORRICHTUNG ZUR ENTFERNUNG VON KOHLENDIOXID AUS EINEM GASSTROM

Title (fr)

PROCÉDÉ ET APPAREIL POUR L'ÉLIMINATION DE DIOXYDE DE CARBONE À PARTIR D'UN COURANT GAZEUX

Publication

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Abstract (en)

[origin: WO2009052313A1] The invention provides methods and apparatuses for removing carbon dioxide from a gas stream. In particular, the invention provides methods and apparatuses for absorbing carbon dioxide from a coal-fired boiler flue gas stream using an absorbing solution and for regeneration of an alkaline component used in the absorbing solution. In one embodiment, the invention provides a method for removing carbon dioxide from a gas stream by contacting a gas stream containing carbon dioxide with an alkaline liquid stream; absorbing at least a portion of the carbon dioxide into the alkaline liquid stream to produce absorbed carbon dioxide; and catalyzing a reaction of the absorbed carbon dioxide to a form of carbonate.

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