

Title (en)

SYSTEM AND METHOD OF MANAGING ENERGY UTILIZED IN A FLUE GAS PROCESSING SYSTEM

Title (de)

SYSTEM UND VERFAHREN ZUR ENERGIEVERWALTUNG IN EINEM ABGASVERARBEITUNGSSYSTEM

Title (fr)

SYSTÈME ET PROCÉDÉ DE GESTION DE L'ÉNERGIE UTILISÉE DANS UN SYSTÈME DE TRAITEMENT DE GAZ DE CARNEAU

Publication

EP 2643633 A2 20131002 (EN)

Application

EP 11785515 A 20111026

Priority

- US 95124810 A 20101122
- US 2011057792 W 20111026

Abstract (en)

[origin: US2012125240A1] A method is provided for managing an amount of energy utilized by a carbon dioxide capture system. The method includes providing a fuel and a feed stream to a combustion system. The feed stream includes oxygen and a portion of a flue gas stream generated upon combustion of the fuel. The method also includes subjecting the flue gas stream to a carbon dioxide capture system to remove carbon dioxide therefrom, measuring a concentration of oxygen present in the feed stream, and selectively adjusting an amount of the flue gas stream included in the feed stream based on the measured concentration of oxygen in the feed stream. The selective adjustment is performed such that the feed stream maintains an oxygen concentration in a range of between about 10% to 90% by volume and the carbon dioxide capture system operates at an energy load between 1.4 GJ/ton of carbon dioxide and 3.0 GJ/ton of carbon dioxide.

IPC 8 full level

F23C 9/00 (2006.01)

CPC (source: EP US)

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Citation (search report)

See references of WO 2012071126A2

Designated contracting state (EPC)

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DOCDB simple family (application)

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