

Title (en)  
METHODS, COMPOSITIONS, AND BURNER SYSTEMS FOR REDUCING EMISSIONS OF CARBON DIOXIDE GAS INTO THE ATMOSPHERE

Title (de)  
VERFAHREN, ZUSAMMENSETZUNGEN UND BRENNERSYSTEME ZUR REDUKTION VON KOHLENDIOXIDEMISSIONEN IN DER ATMOSPHERE

Title (fr)  
PROCÉDÉS, COMPOSITIONS ET SYSTÈMES BRÛLEURS POUR LA RÉDUCTION DES ÉMISSIONS DE DIOXYDE DE CARBONE GAZEUX DANS L'ATMOSPHERE

Publication  
**EP 2567152 A1 20130313 (EN)**

Application  
**EP 10851130 A 20100505**

Priority  
US 2010033672 W 20100505

Abstract (en)  
[origin: WO2011139272A1] A method of preparing an oxidant stream comprising: burning a combustion mixture comprising (a) one or more fuel composition and (b) oxidant comprising a first oxygen content of about 10 mole% or more and a first carbon dioxide (CO<sub>2</sub>) gas content of about 68 mole% or more on a dry basis, the burning producing a flue gas comprising CO<sub>2</sub> gas, water vapor, and unreacted oxygen; separating from the flue gas a recycle stream; mixing at least a portion of the recycle stream having a first pressure with a sufficient amount of an oxygen stream having a second pressure which is sufficiently higher than the first pressure to entrain at least a portion of the recycle stream in the oxidant stream and to produce the oxidant stream having a second oxygen content of 10 mole% or more and a second CO<sub>2</sub> gas content of about 68 mole% or more on a dry basis.

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See references of WO 2011139272A1

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