

Title (en)

Combustion systems and processes for burning fossil fuel with reduced emissions

Title (de)

Verbrennungssysteme und Verfahren zum Verbrennen von fossilen Brennstoffen mit verringerten Emissionen

Title (fr)

Systèmes de combustion et procédés pour brûler le combustible fossile avec des émissions réduites

Publication

EP 2216597 A2 20100811 (EN)

Application

EP 10152078 A 20100129

Priority

US 36677609 A 20090206

Abstract (en)

A combustion system (100) comprising a combustion zone comprising a burner for converting a fuel, under fuel rich conditions, to a flue gas; an intermediate staged air zone (ISA) downstream from the combustion zone for supplying intermediate staged air to the flue gas and producing fuel lean conditions; a reburn zone downstream from the intermediate staged air zone for receiving the flue gas; and an inlet downstream from the combustion zone for supplying a mixture of air and a reduction reagent to the flue gas, wherein the reduction reagent is configured to reduce an amount of pollutant species in the flue gas.

IPC 8 full level

F23J 7/00 (2006.01); **F23C 6/04** (2006.01); **F23L 9/02** (2006.01)

CPC (source: EP US)

F23C 6/045 (2013.01 - EP US); **F23J 7/00** (2013.01 - EP US); **F23L 9/02** (2013.01 - EP US); **F23C 2201/101** (2013.01 - EP US)

Cited by

CN102588988A; EP2444142A3; EP3156117A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

DOCDB simple family (publication)

EP 2216597 A2 20100811; CA 2691395 A1 20100806; US 2010203461 A1 20100812

DOCDB simple family (application)

EP 10152078 A 20100129; CA 2691395 A 20100128; US 36677609 A 20090206