

Title (en)

LOW VELOCITY STAGED COMBUSTION FOR FURNACE ATMOSPHERE CONTROL

Title (de)

GESTUFTE VERBRENNUNG MIT NIEDRIGER GESCHWINDIGKEIT ZUR STEUERUNG EINER BRENNOFEN-ATMOSPHERE

Title (fr)

COMBUSTION ÉTAGÉE À FAIBLE VITESSE POUR LE CONTRÔLE DE L'ATMOSPHERE D'UN FOUR

Publication

EP 2167873 A2 20100331 (EN)

Application

EP 08832671 A 20080619

Priority

- US 2008067456 W 20080619
- US 93776807 P 20070629
- US 14032108 A 20080617

Abstract (en)

[origin: US2009004611A1] An improved staged combustion method useful with oxy-fuel combustion and in a furnace which contains a charge, wherein substoichiometric combustion and low velocity injection of fuel and primary and secondary oxidant are carried out in an orientation which forms a reducing atmosphere proximate the charge surface.

IPC 8 full level

F23C 6/04 (2006.01); **F27B 3/20** (2006.01)

CPC (source: EP KR US)

C03B 5/2353 (2013.01 - EP US); **C21B 11/08** (2013.01 - EP US); **C21B 13/0006** (2013.01 - EP US); **C22B 9/006** (2013.01 - EP US); **C22B 21/0084** (2013.01 - EP US); **F23C 6/04** (2013.01 - KR); **F23C 6/045** (2013.01 - EP US); **F23D 14/32** (2013.01 - EP US); **F27B 3/20** (2013.01 - EP KR US); **F27B 3/22** (2013.01 - EP US); **F27B 9/045** (2013.01 - EP US); **F27D 99/0001** (2013.01 - EP US); **C03B 2211/30** (2013.01 - EP US); **C03B 2211/40** (2013.01 - EP US); **F23C 2900/06041** (2013.01 - EP US); **Y02E 20/34** (2013.01 - EP US); **Y02P 10/134** (2015.11 - EP US); **Y02P 10/32** (2015.11 - EP US); **Y02P 40/50** (2015.11 - EP US); **Y02P 40/57** (2015.11 - EP US)

Citation (search report)

See references of WO 2009038849A2

Designated contracting state (EPC)

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Designated extension state (EPC)

AL BA MK RS

DOCDB simple family (publication)

US 2009004611 A1 20090101; BR PI0813366 A2 20141230; CA 2694258 A1 20090326; CN 101688662 A 20100331; EP 2167873 A2 20100331; JP 2010532461 A 20101007; KR 20100034735 A 20100401; MX 2009013787 A 20100126; WO 2009038849 A2 20090326; WO 2009038849 A3 20090604

DOCDB simple family (application)

US 14032108 A 20080617; BR PI0813366 A 20080619; CA 2694258 A 20080619; CN 200880022683 A 20080619; EP 08832671 A 20080619; JP 2010514987 A 20080619; KR 20097027150 A 20080619; MX 2009013787 A 20080619; US 2008067456 W 20080619