

Title (en)

A MULTI-ZONE CARBON CONVERSION SYSTEM WITH PLASMA MELTING

Title (de)

MEHRERE ZONEN AUFWEISENDES KOHLENSTOFFUMWANDLUNGSSYSTEM MIT PLASMASCHMELZEN

Title (fr)

SYSTÈME DE CONVERSION DE CARBONE À CHAMBRES MULTIPLES FAISANT APPEL À UNE FUSION AU PLASMA

Publication

EP 2263042 A4 20110622 (EN)

Application

EP 08733556 A 20080227

Priority

- CA 2008000452 W 20080227
- US 89174907 P 20070227
- US 89175407 P 20070227
- US 89176807 P 20070227
- US 89180707 P 20070227
- US 98613707 P 20071107

Abstract (en)

[origin: WO2008104088A1] A multi-zone carbon converter for converting processed feedstock to syngas and slag is provided comprising a chamber comprising a carbon conversion zone in communication with a slag zone for melting ash into molten slag and/or for maintaining slag in a molten state by the application of plasma heat. The carbon conversion zone and the slag zone are separated by the inter-zonal region that comprises an impediment for restricting or limiting the movement of material between the two zones. The inter-zonal region may also provide for the initial melting of the ash into molten slag by affecting the transfer of plasma heat from the slag zone.

IPC 8 full level

F23G 5/38 (2006.01); **A62D 3/40** (2007.01); **B09B 3/00** (2006.01); **C01B 3/02** (2006.01); **C01B 32/40** (2017.01); **C02F 1/02** (2006.01); **C02F 11/10** (2006.01); **C10J 3/00** (2006.01); **F23G 5/027** (2006.01)

CPC (source: EP)

C10J 3/20 (2013.01); **C10J 3/32** (2013.01); **C10J 3/34** (2013.01); **C10J 3/721** (2013.01); **F23G 5/027** (2013.01); **F23G 5/24** (2013.01); **F23G 5/38** (2013.01); **C02F 11/10** (2013.01); **C10J 2200/09** (2013.01); **C10J 2200/15** (2013.01); **C10J 2300/0916** (2013.01); **C10J 2300/093** (2013.01); **C10J 2300/0946** (2013.01); **C10J 2300/0956** (2013.01); **C10J 2300/1238** (2013.01); **C10J 2300/1628** (2013.01); **C10J 2300/1634** (2013.01); **F23G 2201/304** (2013.01); **F23G 2201/40** (2013.01); **F23G 2202/104** (2013.01); **F23G 2204/201** (2013.01); **Y02P 20/145** (2015.11)

Citation (search report)

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- [A] US 4063521 A 19771220 - PECH JAN J
- [A] US 4941415 A 19900717 - POPE G MICHAEL [US], et al
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- [A] WO 2006128285 A1 20061207 - PLASCO ENERGY GROUP INC [CA], et al
- See references of WO 2008104088A1

Designated contracting state (EPC)

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Designated extension state (EPC)

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DOCDB simple family (application)

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