

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)

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

Designated extension state (EPC)

AL BA MK RS

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