

Title (en)

PROCESS, SYSTEM AND APPARATUS FOR PASSIVATING CARBONACEOUS MATERIALS

Title (de)

VERFAHREN, SYSTEM UND VORRICHTUNG ZUR PASSIVIERUNG VON KOHLENSTOFFHALTIGEN MATERIALIEN

Title (fr)

PROCÉDÉ, SYSTÈME ET APPAREILLAGE SERVANT À PASSIVER DES MATIÈRES CARBONÉES

Publication

EP 1951849 A4 20100526 (EN)

Application

EP 06790435 A 20061026

Priority

- AU 2006001604 W 20061026
- AU 2005905934 A 20051026
- AU 2005906808 A 20051205

Abstract (en)

[origin: WO2007048198A1] A process, system and apparatus is provided for passivating carbonaceous material against spontaneous combustion. The process involves drying the carbonaceous material in a low oxygen environment and pre-conditioning the carbonaceous material by contacting it with volatile matter contained in a countercurrent gas stream. The volatile matter coats the particles of dried carbonaceous material and plugs the micropores of the dried carbonaceous material, thereby passivating it against adsorption of water and oxygen, and thus spontaneous combustion. The pre-conditioned dried material then undergoes devolatilisation at temperatures at which volatile matter is evolved. The evolved volatile matter mixes with the countercurrent gas stream and is used to pre-condition dried carbonaceous material located upstream.

IPC 8 full level

C10L 5/00 (2006.01); **C10L 9/02** (2006.01); **C10L 9/08** (2006.01); **C10L 9/10** (2006.01)

CPC (source: EP US)

C10L 5/00 (2013.01 - EP US); **C10L 9/08** (2013.01 - EP US); **C10L 9/10** (2013.01 - EP US)

Citation (search report)

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- [A] US 4511363 A 19850416 - NAKAMURA YOICHI [JP], et al
- [Y] US 5087269 A 19920211 - CHA CHANG Y [US], et al
- [Y] US 4043763 A 19770823 - NORMAN OSCAR L, et al
- See references of WO 2007048198A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK RS

DOCDB simple family (publication)

WO 2007048198 A1 20070503; BR PI0618018 A2 20110816; EA 200801191 A1 20090227; EP 1951849 A1 20080806; EP 1951849 A4 20100526; TW 200724669 A 20070701; US 2009217574 A1 20090903

DOCDB simple family (application)

AU 2006001604 W 20061026; BR PI0618018 A 20061026; EA 200801191 A 20061026; EP 06790435 A 20061026; TW 95139548 A 20061026; US 9150306 A 20061026