

Title (en)

MERCURY REMOVAL SYSTEMS USING BENEFICIATED FLY ASH PARTICLES AND METHODS THEREOF

Title (de)

QUECKSILBERENTFERNUNGSSYSTEME MIT TEILCHEN VON AUFBEREITETER FLUGASCHE UND VERFAHREN DAFÜR

Title (fr)

SYSTÈMES D'ÉLIMINATION DE MERCURE UTILISANT DES PARTICULES DE CENDRES VOLANTES ENRICHIES ET PROCÉDÉS CORRESPONDANTS

Publication

**EP 2167221 A4 20110406 (EN)**

Application

**EP 07798726 A 20070619**

Priority

US 2007071509 W 20070619

Abstract (en)

[origin: WO2008156481A1] A mercury removal system and methods thereof include at least one supply system, at least one cooling system and at least one separation system. The supply system is connected to introduce at least beneficiated fly ash particles into an exhaust stream. The exhaust stream comprises at least one exhaust gas and mercury and at least a portion of the mercury in the exhaust stream adheres to the introduced beneficiated fly ash particles. The cooling system cools the exhaust stream before or after the connection of the supply system to the exhaust stream. The separation system separates from the exhaust stream and outputs at least a portion of the introduced beneficiated fly ash particles with the adhered mercury.

IPC 8 full level

**B01D 53/46** (2006.01); **B01D 53/64** (2006.01)

CPC (source: EP)

**B01D 53/10** (2013.01); **B01D 53/64** (2013.01); **B01D 2253/102** (2013.01); **B01D 2257/602** (2013.01)

Citation (search report)

- [X] WO 03092861 A1 20031113 - NELSON SIDNEY G JR [US]
- [A] O'DOWD W J ET AL: "A technique to control mercury from flue gas: The Thief Process", FUEL PROCESSING TECHNOLOGY, ELSEVIER BV, NL, vol. 87, no. 12, 1 December 2006 (2006-12-01), pages 1071 - 1084, XP024937156, ISSN: 0378-3820, [retrieved on 20061201], DOI: 10.1016/J.FUPROC.2006.05.006
- See references of WO 2008156481A1

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 MT NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

**WO 2008156481 A1 20081224**; AU 2007355166 A1 20081224; CA 2691084 A1 20081224; EP 2167221 A1 20100331; EP 2167221 A4 20110406; IL 202853 A0 20100630; JP 2010530306 A 20100909; ZA 200909050 B 20110223

DOCDB simple family (application)

**US 2007071509 W 20070619**; AU 2007355166 A 20070619; CA 2691084 A 20070619; EP 07798726 A 20070619; IL 20285309 A 20091217; JP 2010513177 A 20070619; ZA 200909050 A 20091218