Title (en)

METHOD AND DEVICE FOR SEPARATING CARBON DIOXIDE FROM A WASTE GAS OF A FOSSIL FUEL-OPERATED POWER PLANT

Title (de)

VERFAHREN UND VORRICHTUNG ZUM ABTRENNEN VON KOHLENDIOXID AUS EINEM ABGAS EINER FOSSILBEFEUERTEN KRAFTWERKSANLAGE

Title (fr)

PROCÉDÉ ET DISPOSITIF POUR SÉPARER LE DIOXYDE DE CARBONE D'UN GAZ D'ÉCHAPPEMENT REJETÉ PAR UNE CENTRALE ÉLECTRIQUE FONCTIONNANT AUX ÉNERGIES FOSSILES

Publication

EP 2307121 A1 20110413 (DE)

Application

EP 09797441 A 20090514

Priority
- EP 2009055792 W 20090514
- EP 08012961 A 20080717
- EP 09797441 A 20090514

Abstract (en)

[origin: EP2145667A1] The method involves burning fossil fuel (2) in a combustion process (1) and producing exhaust gas containing carbon dioxide. The gaseous carbon dioxide (8) is produced in a thermally driven desorption process (7) of the loaded absorbing medium (6). The release condensation heat is transfused on loaded absorption medium by condensation of vapor (9). An independent claim is included for a fossil fuel-powered power plant.

IPC 8 full level

B01D 53/14 (2006.01)

CPC (source: EP US)

B01D 53/1425 (2013.01 - EP US); **B01D 53/1475** (2013.01 - EP US); **F22B 37/008** (2013.01 - EP US); **F23J 15/006** (2013.01 - EP US); **F23J 15/04** (2013.01 - EP US); B01D 2257/504 (2013.01 - EP US); F23J 2215/20 (2013.01 - EP US); F23J 2215/50 (2013.01 - EP US); F23J 2219/40 (2013.01 - EP US); Y02A 50/20 (2017.12 - EP US); Y02C 20/40 (2020.08 - EP US); Y02E 20/32 (2013.01 - EP US)

Citation (search report)

See references of WO 2010006825A1

Citation (examination)
- WO 2007133595 A2 20071122 - UNIV ILLINOIS [US], et al
- WO 2004005818 A2 20040115 - FLUOR CORP [US], et al

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 MK MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA RS

DOCDB simple family (publication)

EP 2145667 A1 20100120; AU 2009270451 A1 20100121; AU 2009270451 B2 20140904; BR PI0915754 A2 20151103; CA 2730865 A1 20100121; CN 102089062 A 20110608; EP 2307121 A1 20110413; JP 2011527936 A 20111110; JP 5465246 B2 20140409; RU 2011105825 A 20120827; RU 2508158 C2 20140227; US 2011139003 A1 20110616; US 8834609 B2 20140916; WO 2010006825 A1 20100121

DOCDB simple family (application)

EP 08012961 A 20080717; AU 2009270451 A 20090514; BR PI0915754 A 20090514; CA 2730865 A 20090514; CN 200980127172 A 20090514; EP 09797441 A 20090514; EP 2009055792 W 20090514; JP 2011517825 A 20090514; RU 2011105825 A 20090514; US 200913003805 A 20090514