

Title (en)
FLUIDIZED BED COMBUSTION SYSTEM WITH STEAM GENERATION

Title (de)
WIRBELSCHICHT-FEUERUNGSSYSTEM MIT DAMPFERZEUGUNG

Title (fr)
SYSTEME DE COMBUSTION EN LIT FLUIDISE AVEC PRODUCTION DE VAPEUR

Publication
EP 1080325 A1 20010307 (DE)

Application
EP 99952112 A 19990517

Priority
• DE 19822304 A 19980518
• DE 19834881 A 19980801
• EP 9903376 W 19990517

Abstract (en)
[origin: WO9960305A1] The combustion system for an industrial installation operates at least partly with solid fuel. The installation has a heat exchange chamber (1) having an inner height of at least 10 m. The chamber has four vertical outer walls encompassing an approximately rectangular area in a horizontal cross-section. A turbulent combustion chamber (2, 3) having an inner height of 10 to 60 m is arranged in front of a first outer wall (1a) of the heat exchange chamber (1) and a second outer wall (1c) located opposite to the first outer wall. Each turbulent combustion chamber (2, 3) has an inner height of 10 to 60 m and lines for supplying fuel and combustion air. At least one separator (5, 7) for separating solids from a gas flow is connected to the top section of each turbulent combustion chamber (2, 3), said separator having a gas discharge line (9) that is connected to the top section of the heat exchange chamber (1).

IPC 1-7
F22B 31/00

IPC 8 full level
F22B 1/02 (2006.01); **F23G 5/30** (2006.01); **F22B 31/00** (2006.01); **F23C 10/00** (2006.01); **F23C 10/02** (2006.01); **F23C 10/10** (2006.01)

CPC (source: EP KR US)
F22B 31/00 (2013.01 - KR); **F22B 31/0084** (2013.01 - EP US); **F23C 10/002** (2013.01 - EP US); **F23C 10/005** (2013.01 - EP US); **F23C 10/10** (2013.01 - EP US); **F23C 2206/103** (2013.01 - EP US)

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)
WO 9960305 A1 19991125; AT E208877 T1 20011115; AU 4262999 A 19991206; AU 746774 B2 20020502; BR 9910604 A 20010116; CA 2332516 A1 19991125; CA 2332516 C 20050712; CO 4870738 A1 19991227; CZ 20004284 A3 20011114; CZ 290860 B6 20021016; DE 19834881 A1 20000309; DE 19834881 B4 20070621; DE 59900444 D1 20011220; DK 1080325 T3 20020211; EA 002507 B1 20020627; EA 200001196 A1 20010625; EE 04288 B1 20040415; EE 200000679 A 20020415; EP 1080325 A1 20010307; EP 1080325 B1 20011114; ES 2168022 T3 20020516; HU 225365 B1 20061028; HU P0101897 A2 20011128; HU P0101897 A3 20011228; JP 2002515580 A 20020528; KR 100604347 B1 20060725; KR 20010043702 A 20010525; MA 24861 A1 19991231; PL 192416 B1 20061031; PL 344241 A1 20011008; RO 119163 B1 20040430; SI 20342 A 20010228; TR 200003392 T2 20010221; UA 53796 C2 20030217; US 6481385 B1 20021119

DOCDB simple family (application)
EP 9903376 W 19990517; AT 99952112 T 19990517; AU 4262999 A 19990517; BR 9910604 A 19990517; CA 2332516 A 19990517; CO 99029034 A 19990511; CZ 20004284 A 19990517; DE 19834881 A 19980801; DE 59900444 T 19990517; DK 99952112 T 19990517; EA 200001196 A 19990517; EE P200000679 A 19990517; EP 99952112 A 19990517; ES 99952112 T 19990517; HU P0101897 A 19990517; JP 2000549883 A 19990517; KR 20007012922 A 20001117; MA 25583 A 19990517; PL 34424199 A 19990517; RO 200001129 A 19990517; SI 9920035 A 19990517; TR 200003392 T 19990517; UA 00127245 A 19990517; US 70112400 A 20001117