

Title (en)

COMBUSTION CHAMBER FOR A FLUIDIZED-BED COMBUSTOR

Publication

**EP 0204176 A3 19880120 (DE)**

Application

**EP 86106354 A 19860509**

Priority

- DE 3518628 A 19850523
- DE 3544887 A 19851218

Abstract (en)

[origin: ES8704254A1] A combustion chamber with a fluidized bed furnace having a nozzle plate, a fuel feed above the nozzle plate, a primary air feed below the nozzle plate, an exhaust gas channel at an upper end of the combustion chamber, and heat-exchanging heating surfaces includes a cylindrical combustion chamber wall disposed vertically upright and having, in an upper region thereof, a plurality of secondary air nozzles disposed tangentially as well as downwardly inclined to the cylindrical wall for separating and returning unspent solid particles into a lower region of the fluidized bed, a device for directing a flow of gas and particles vertically upwardly in a central region of the combustion chamber and spirally downwardly along the cylindrical wall, and a device for impressing an upwardly increasing rotary flow about an axis of symmetry of the combustion chamber upon the gas flow.

IPC 1-7

**F23C 11/02; F22B 31/00**

IPC 8 full level

**F22B 31/00** (2006.01); **F23C 10/12** (2006.01)

CPC (source: EP US)

**F22B 31/0092** (2013.01 - EP US); **F23C 10/12** (2013.01 - EP US); **F23C 2206/101** (2013.01 - EP US)

Citation (search report)

- [Y] EP 0082673 A2 19830629 - YORK SHIPLEY INC [US]
- [Y] GB 1183355 A 19700304 - SIEMENS AG [DE]
- [A] US 4060041 A 19771129 - SOWARDS NORMAN K
- [A] US 3219420 A 19651123 - DIELENBERG ALEXANDER F
- [A] DE 2931354 A1 19800221 - KAWASAKI HEAVY IND LTD
- [A] US 4416418 A 19831122 - GOODSTINE STEPHEN L [US], et al
- [A] DE 2753173 A1 19780622 - CHAMBERT LARS AXEL ANDREAS M S
- [A] DE 2819996 A1 19781123 - CHAMBERT LARS AXEL ANDREAS M S
- [A] US 4165717 A 19790828 - COLLIN PER H [SE], et al
- [A] GB 2121311 A 19831221 - FOSTER WHEELER ENERGY CORP
- [A] PATENT ABSTRACTS OF JAPAN, Band 4, Nr. 111 (M-25)[593], 9. August 1980; & JP-A-55 68 506 (BABCOCK HITACHI K.K.) 23-05-1980
- [A] PATENT ABSTRACTS OF JAPAN, Band 8, Nr. 154 (M-310)[1591], 18. Juli 1984; & JP-A-59 52 106 (BABCOCK HITACHI K.K.) 26-03-1984

Cited by

EP0243156A1; DE3729910A1; EP0282777A3; DE3708799A1; EP0413104A1; US5044287A; EP0286845A1; US6646700B2; WO8905942A1

Designated contracting state (EPC)

AT BE CH DE FR GB IT LI LU NL SE

DOCDB simple family (publication)

**EP 0204176 A2 19861210; EP 0204176 A3 19880120**; CN 1010425 B 19901114; CN 86102820 A 19861217; DK 235886 A 19861124;  
DK 235886 D0 19860521; ES 555286 A0 19870316; ES 8704254 A1 19870316; GR 861315 B 19860919; US 4766851 A 19880830

DOCDB simple family (application)

**EP 86106354 A 19860509**; CN 86102820 A 19860424; DK 235886 A 19860521; ES 555286 A 19860523; GR 860101315 A 19860521;  
US 86605186 A 19860521