

Title (en)

CIRCULATING FLUIDIZED BED BOILER WITH BOTTOM-SUPPORTED IN-BED HEAT EXCHANGER

Title (de)

KESSEL MIT ZIRKULIERENDEM FLIESSBETT MIT BODENUNTERSTÜTZTEM BETTINTERNEM WÄRMETAUSCHER

Title (fr)

CHAUDIÈRE À LIT FLUIDISÉ CIRCULANT AVEC ÉCHANGEUR DE CHALEUR DANS LE LIT SUPPORTÉ PAR LE FOND

Publication

EP 3306189 A1 20180411 (EN)

Application

EP 17175855 A 20170613

Priority

- US 201662349627 P 20160613
- US 201715618913 A 20170609

Abstract (en)

A circulating fluidized bed (CFB) boiler has one or more bubbling fluidized bed enclosures containing heating surfaces and located within a lower portion of the CFB boiler to provide an in-bed heat exchanger (IBHX). Solids in the bubbling fluidized bed are maintained in a slow bubbling fluidized bed state by separately controlled fluidization gas supplies. The beds feature open bottom distribution grids with hoppers disposed below to collect solids. The enclosure defining the IBHX is supported from structures below the grids and the enclosure can be supported from the hoppers.

IPC 8 full level

F22B 31/00 (2006.01)

CPC (source: CN EP US)

F22B 31/0023 (2013.01 - EP US); **F22B 31/0061** (2013.01 - EP US); **F22B 31/0069** (2013.01 - EP US); **F22B 31/0092** (2013.01 - EP US); **F23C 10/01** (2013.01 - CN); **F23C 10/12** (2013.01 - EP US); **F23C 10/18** (2013.01 - CN); **F23C 10/20** (2013.01 - EP US); **F23C 10/22** (2013.01 - EP US); **F23C 2206/102** (2013.01 - EP US)

Citation (applicant)

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Citation (search report)

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Designated contracting state (EPC)

AL 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 RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

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DOCDB simple family (application)

US 201715618913 A 20170609; BR 102017012587 A 20170613; CL 2017001518 A 20170613; CN 201710444334 A 20170613; CO 2017005825 A 20170613; EP 17175855 A 20170613; PH 12017000173 A 20170613; RU 2017120537 A 20170613