

Title (en)
A circulating fluidized bed reactor chamber

Title (de)
Kammer eines Reaktors mit zirkulierender Wirbelschicht

Title (fr)
Chambre de réacteur de lit fluidisé circulant

Publication
EP 1953452 A3 20100609 (EN)

Application
EP 07300714 A 20070110

Priority
EP 07300714 A 20070110

Abstract (en)
[origin: EP1953452A2] The invention relates to a fluidized bed reactor chamber made up of peripheral waterwalls (1, 1') constituted by tubes interconnected by fins and having a bottom portion (1A) lined with a layer of refractory material (3A), a top portion (1B), and a zone (1C) referred to as an intermediate zone situated between said bottom and top portions, at least two waterwalls being connected to each other along a substantially vertical edge, and said peripheral waterwalls in said intermediate zone (1C) being bent outwards angularly relative to the vertical plane defined by the top portion (1B) of each peripheral waterwall. According to the invention a horizontal fraction only of each of said peripheral walls is bent in this way, said fractions being disposed on either side of said edge.

IPC 8 full level
F22B 31/00 (2006.01); **F22B 37/10** (2006.01); **F23C 10/02** (2006.01); **F23M 5/00** (2006.01)

CPC (source: EP)
F22B 31/003 (2013.01); **F22B 37/108** (2013.01); **F23C 10/02** (2013.01); **F23M 5/08** (2013.01)

Citation (search report)

- [XYI] JP 2001165409 A 20010622 - MITSUBISHI HEAVY IND LTD
- [XDY] WO 9009551 A1 19900823 - AHLSTROEM OY [FI]
- [XY] JP H08189601 A 19960723 - MITSUBISHI HEAVY IND LTD
- [Y] US 5893340 A 19990413 - BELIN FELIX [US], et al
- [YD] EP 0384500 A1 19900829 - METALLGESELLSCHAFT AG [DE]
- [X] "O&M EXPERIENCE UNDERSCORES MATURITY OF CFB TECHNOLOGY", POWER, MCGRAW-HILL COMPAGNY, NEW YORK, NY, US, vol. 139, no. 5, 1 May 1995 (1995-05-01), XP000504822, ISSN: 0032-5929

Cited by
WO2019012180A1; JP2010038491A; CN102782406A; RU2507444C1; JPWO2014061454A1; JP2017166818A; US8967088B2; CN110998183A; RU2727947C1; JP2020527686A; AU2018298911B2; WO2011086233A1; US10118147B1

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 NL PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA HR MK RS

DOCDB simple family (publication)
EP 1953452 A2 20080806; EP 1953452 A3 20100609; EP 1953452 B1 20130327; ES 2414439 T3 20130719; PL 1953452 T3 20130830; WO 2008084000 A2 20080717; WO 2008084000 A3 20100624

DOCDB simple family (application)
EP 07300714 A 20070110; EP 2008050008 W 20080102; ES 07300714 T 20070110; PL 07300714 T 20070110