

Title (en)  
Fluidized bed heat exchanger

Title (de)  
Fließbettwärmetauscher

Title (fr)  
Échangeur de chaleur à lit fluidisé

Publication  
**EP 3054215 B1 20170419 (EN)**

Application  
**EP 15153815 A 20150204**

Priority  
EP 15153815 A 20150204

Abstract (en)  
[origin: EP3054215A1] The invention relates to a so-called Fluidized Bed Heat Exchanger (FBHE) of a Circulating Fluidized Bed Apparatus (CFBA). Fluidized bed heat exchanger with a chamber comprising at least one solid particles inlet port (22), at least one solid particles outlet port (30), arranged at a distance to the at least one inlet port (22), means (46) for introducing a fluidizing gas from a bottom area (24b) of said chamber (24) into said chamber (24), wall-like heat transfer means (28) in its lower part, extending in a main flow direction of the solid particles on their way from the inlet port (22) to the outlet port (30), substantially parallel to each other, with a space between adjacent heat transfer means (28), at least one baffle (50,52) in its upper part, extending substantially perpendicular to the heat transfer means (28), downwardly from a chamber ceiling (24c), with its lower end at a distance to the heat transfer means (28) and comprising extensions, protruding into the space between adjacent heat transfer means (28), and couplings to mechanically connect the said heat transfer means (28) to said extensions.

IPC 8 full level  
**F23C 10/10** (2006.01); **F23C 10/18** (2006.01); **F23M 9/10** (2006.01)

CPC (source: CN EP US)  
**F23C 10/10** (2013.01 - CN EP US); **F23C 10/18** (2013.01 - CN EP US); **F23M 9/10** (2013.01 - CN EP US)

Citation (examination)  
US 1852363 A 19320405 - PARENT EMILE J

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

DOCDB simple family (publication)  
**EP 3054215 A1 20160810; EP 3054215 B1 20170419**; CN 106796026 A 20170531; PL 3054215 T3 20170831; RS 56059 B1 20170929; US 2017299173 A1 20171019; WO 2016124353 A1 20160811

DOCDB simple family (application)  
**EP 15153815 A 20150204**; CN 201680003150 A 20160108; EP 2016050273 W 20160108; PL 15153815 T 20150204; RS P20170579 A 20150204; US 201615513404 A 20160108