

Title (en)
FLUIDIZED-BED COMBUSTION WITH IMMERSION HEATING SURFACES

Publication
EP 0186756 B1 19890405 (DE)

Application
EP 85114126 A 19851106

Priority
DE 3447186 A 19841222

Abstract (en)
[origin: US4715809A] Heat exchanger tubes which are immersed in a fluidized bed of a combustion fluidized bed installation are provided with flow deflectors which reduce erosion of the fluidized materials in the bed on the tubes. The flow deflectors are preferably fins or pins, which protrude from the surface of the tubes and which disturb the erosive flow against the outer walls of the tubes. The flow deflectors also increase the surface areas of the tubes and thereby improve heat transfer from the combustion in the fluidized bed to a fluid heat exchanging medium within the tubes.

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F22B 31/00; F22B 37/10; F23C 11/02

IPC 8 full level
F22B 1/02 (2006.01); **F22B 31/00** (2006.01); **F22B 37/10** (2006.01)

CPC (source: EP US)
F22B 31/0061 (2013.01 - EP US); **F22B 37/101** (2013.01 - EP US); **F22B 37/106** (2013.01 - EP US)

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Designated contracting state (EPC)
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DOCDB simple family (publication)
EP 0186756 A1 19860709; **EP 0186756 B1 19890405**; AU 5076085 A 19860626; AU 580118 B2 19890105; BR 8506385 A 19860902; CA 1265390 A 19900206; DE 3447186 A1 19860703; DE 3569283 D1 19890511; JP S61159002 A 19860718; PL 256476 A1 19860923; US 4715809 A 19871229; ZA 859803 B 19861126

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