

Title (en)

Fluidized-bed combustion with immersion heating surfaces.

Title (de)

Wirbelschichtfeuerung mit Tauchheizflächen.

Title (fr)

Combustion en lit fluidisé avec des surfaces de chauffe immergées.

Publication

**EP 0186756 A1 19860709 (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.

Abstract (de)

Nach der Erfindung wird ein Erosionsschutz von Tauchheizflächen, die in das Wirbelbett von Wirbelschichtfeuerungen eingetaucht sind, durch strömungsbrechende Schikanen an den Tauchheizflächen erreicht.

IPC 1-7

**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)

Citation (search report)

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DOCDB simple family (application)

**EP 85114126 A 19851106**; AU 5076085 A 19851204; BR 8506385 A 19851219; CA 498238 A 19851220; DE 3447186 A 19841222; DE 3569283 T 19851106; JP 28320185 A 19851218; PL 25647685 A 19851127; US 81192085 A 19851220; ZA 859803 A 19851223