

Title (en)  
Fluidized bed heat exchanger.

Title (de)  
Wirbelbett-Wärmetauscher.

Title (fr)  
Echangeur de chaleur à lit fluidisé.

Publication  
**EP 0090641 A2 19831005 (EN)**

Application  
**EP 83301758 A 19830329**

Priority  
US 36416382 A 19820331

Abstract (en)  
A fluidized bed heat exchanger is described in which a perforate support plate (20) bears relatively lightweight absorbent material particles and relatively heavy fuel ash particles in a fluidized bed (18). The heat exchanger includes a drain (42) through which a flow of air is forced upwardly into the bed (18). The air flow is controlled such that it forms an air screen which retains the adsorbent material particles in the bed (18) but allows the fuel ash particles to fall into the drain (43) for discharge.

IPC 1-7  
**F23C 11/02**; **F23J 1/00**

IPC 8 full level  
**F28D 13/00** (2006.01); **F23C 10/24** (2006.01)

CPC (source: EP)  
**F23C 10/24** (2013.01)

Cited by  
EP0202215A3; EP0440552A3; EP1314944A4; US7025927B2; WO2015193450A1

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DE GB NL SE

DOCDB simple family (publication)  
**EP 0090641 A2 19831005**; **EP 0090641 A3 19840801**; **EP 0090641 B1 19880107**; CA 1192792 A 19850903; DE 3375197 D1 19880211; IN 159258 B 19870418; JP H0236877 B2 19900821; JP S58213187 A 19831212

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**EP 83301758 A 19830329**; CA 424965 A 19830330; DE 3375197 T 19830329; IN 202DE1983 A 19830330; JP 5406083 A 19830331