

Title (en)  
SEPARATION PROCESS AND DEVICE

Title (de)  
VERFAHREN UND EINRICHTUNG ZUR ABSCHIEDUNG

Title (fr)  
PROCEDE ET DISPOSITIF DE SEPARATION

Publication  
**EP 0828970 B1 20000426 (DE)**

Application  
**EP 96914005 A 19960531**

Priority  
• AT 9600100 W 19960531  
• AT 94395 A 19950602

Abstract (en)  
[origin: WO9638689A1] In a process for separating the bed material and to increase the heat transfer in an incineration plant operating on the circulating fluidised bed principle and a corresponding finned-tube incineration plant for implementing the process with a separation and return device parallel to the combustion chamber to separate and return the bed material into the combustion chamber, the stream of flue gas from the combustion chamber with the material conveyed with it is deflected in the gravitational direction and subsequently against gravity so that the coarse material is separated and returned and the fine material is used for transferring heat to the downstream heating surfaces. To this end, there is a deflection wall (14) partly separated by an intermediate wall (4) with a separation chamber (2) and a return device (9), where these devices form part of the descending and rising pipe system of the boiler body.

IPC 1-7  
**F22B 31/00**; **F23C 10/04**

IPC 8 full level  
**F22B 31/00** (2006.01); **F23C 10/04** (2006.01); **F23C 10/08** (2006.01); **F23C 10/10** (2006.01); **F23G 5/30** (2006.01)

CPC (source: EP)  
**F22B 31/0084** (2013.01); **F23C 10/08** (2013.01); **F23C 10/10** (2013.01); **F23G 5/30** (2013.01); **F23G 2203/501** (2013.01); **F23J 2217/20** (2013.01)

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