

Title (en)  
Steam boiler.

Title (de)  
Dampfkessel.

Title (fr)  
Chaudière à vapeur.

Publication  
**EP 0483678 B1 19941221 (DE)**

Application  
**EP 91118215 A 19911025**

Priority  
AT 219790 A 19901031

Abstract (en)  
[origin: EP0483678A2] The steam boiler has a number of flues and a de-NO<sub>x</sub> installation as a catalyser with an NH<sub>3</sub> injection device for reduction of the NO<sub>x</sub> constituents in the flue gas. Seen in the direction of flow of the flue gases, the catalyser lies in front of the last flue in a boiler section which conducts the flue gases downwards. The boiler section upstream of this boiler section is adjustable with regard to its passage cross-section depending upon the flue-gas temperature prevailing in front of the catalyser. This passage cross-section can be increased with falling flue-gas temperature. The boiler section upstream of the catalyser is designed as a smoke pipe flue (4). One of the smoke pipes (6) forming this smoke pipe flue (4) has a diameter which is enlarged in relation to the other smoke pipes (5) of this flue. The passage cross-section of the smoke pipe (6) can be adjusted with a throttle flap (9). The catalyser-side end of the flue (4) which is of adjustable passage cross-section opens into a chamber (7). In the chamber (7), the catalyser-side end of the smoke pipe (6) having the enlarged diameter merges into an upwardly-directed pipe-like extension (25). At a distance from the mouth opening of this pipe-like extension (25), an essentially horizontally lying perforated sheet (27) is provided. <IMAGE>

IPC 1-7  
**F23J 15/00**; **F22B 37/00**

IPC 8 full level  
**F22B 37/00** (2006.01); **F23J 15/02** (2006.01)

CPC (source: EP)  
**F22B 37/008** (2013.01); **F23J 15/02** (2013.01)

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**EP 91118215 A 19911025**; DE 59103983 T 19911025