

Title (en)  
Water tube boiler.

Title (de)  
Wasserrohrkessel.

Title (fr)  
Chaudière à tubes d'eau.

Publication  
**EP 0502220 B1 19940608 (DE)**

Application  
**EP 91103143 A 19910302**

Priority  
EP 91103143 A 19910302

Abstract (en)  
[origin: EP0502220A1] In a steam boiler having a plurality of passes (3, 4, 15) and a DeNOx unit in the form of a catalyst (14) and an NH<sub>3</sub> injection device for reducing the NO<sub>x</sub> contents in the smoke gas, the catalyst (14) is arranged upstream of the last pass (15), as viewed in the direction of flow of the smoke gases, in a boiler section where the smoke gases are taken downwards. The boiler section upstream of the catalyst (14) is constructed as a smoke tube pass (4). At least one of the smoke tubes (6) forming this smoke tube pass has a diameter greater than that of the other smoke tubes (5) of this pass. The passage cross-section of this smoke tube (6) is controllable by means of a throttle plate (9). This passage cross-section can be enlarged with falling smoke gas temperature. <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)

Cited by  
CN104110672A; DE19606135A1; DE19606135C2; EP0634579A1; US5697403A

Designated contracting state (EPC)  
BE CH DE DK ES FR GB GR IT LI LU NL SE

DOCDB simple family (publication)  
**EP 0502220 A1 19920909**; **EP 0502220 B1 19940608**; DE 59101872 D1 19940714

DOCDB simple family (application)  
**EP 91103143 A 19910302**; DE 59101872 T 19910302