

Title (en)  
STEAM GENERATOR

Title (de)  
DAMPFERZEUGER

Title (fr)  
GENERATEUR DE VAPEUR

Publication  
**EP 0657010 B2 19990825 (DE)**

Application  
**EP 93917528 A 19930806**

Priority  
• DE 9300698 W 19930806  
• DE 4227457 A 19920819

Abstract (en)  
[origin: US5701850A] A fossil-fired steam generator includes a gas flue having a surrounding wall being formed by tubes which are mutually joined gas-tightly and which are disposed substantially vertically and can conduct an upward flow through them on the medium side. The tubes in a first or lower part of the gas flue have a greater internal diameter than the tubes in a second part of the gas flue located above. On one hand, this ensures reliable cooling of the tubes. On the other hand, even additional or above-average heating of individual tubes does not lead to inadmissible temperature differences between outlets of the tubes.

IPC 1-7  
**F22B 37/12; F22B 37/14**

IPC 8 full level  
**F22B 37/10** (2006.01); **F22B 29/06** (2006.01); **F22B 37/12** (2006.01); **F22B 37/14** (2006.01); **F28F 13/08** (2006.01)

CPC (source: EP KR US)  
**F22B 29/061** (2013.01 - EP US); **F22B 37/12** (2013.01 - EP KR US); **F22B 37/14** (2013.01 - KR)

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

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**US 5701850 A 19971230**; AT E145980 T1 19961215; CA 2142840 A1 19940303; CN 1043680 C 19990616; CN 1083573 A 19940309; CZ 287735 B6 20010117; CZ 37595 A3 19950816; DE 4227457 A1 19940224; DE 59304695 D1 19970116; DK 0657010 T3 19970602; DK 0657010 T4 19991213; EP 0657010 A1 19950614; EP 0657010 B1 19961204; EP 0657010 B2 19990825; ES 2095660 T3 19970216; ES 2095660 T5 19991116; GR 3022186 T3 19970331; JP 3188270 B2 20010716; JP H08500426 A 19960116; KR 100209115 B1 19990715; KR 950703135 A 19950823; RU 2109209 C1 19980420; RU 95106598 A 19961227; SK 22295 A3 19950711; TW 228565 B 19940821; UA 27923 C2 20001016; WO 9404870 A1 19940303

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**US 39098795 A 19950221**; AT 93917528 T 19930806; CA 2142840 A 19930806; CN 93116551 A 19930819; CZ 37595 A 19930806; DE 4227457 A 19920819; DE 59304695 T 19930806; DE 9300698 W 19930806; DK 93917528 T 19930806; EP 93917528 A 19930806; ES 93917528 T 19930806; GR 960403656 T 19961230; JP 50575094 A 19930806; KR 19950700616 A 19950217; RU 95106598 A 19930806; SK 22295 A 19930806; TW 82105872 A 19930723; UA 95028134 A 19930806