

Title (en)  
Heat-recovery boiler provided with divergent duct

Title (de)  
Abhitzeessel mit einem divergierenden Kanal

Title (fr)  
Chaudière de récupération avec canal divergent

Publication  
**EP 0863364 A3 19990728 (EN)**

Application  
**EP 98200705 A 19980306**

Priority  
IT MI970509 A 19970307

Abstract (en)  
[origin: EP0863364A2] A heat-recovery boiler provided with a divergent duct that runs from the outlet of a turbine to the inlet of a boiler; the covering wall of the divergent duct, which runs from the top of the boiler to the top of the outlet of the turbine, is inclined at an angle (  $\alpha$  ) which is greater than 45 DEG and up to 75 DEG with respect to the horizontal plane; the divergent duct is connected with the upper part of the outlet of the turbine by means of an arc-shaped wall portion; inside the divergent duct, in the region delimited by the arc- shaped wall, gas stream conveyance profiles are provided which are arranged in succession and in adjacent rows. <IMAGE>

IPC 1-7  
**F22B 1/18**; **F01D 25/30**; **F01K 23/10**

IPC 8 full level  
**F01D 25/30** (2006.01); **F22B 1/18** (2006.01)

CPC (source: EP)  
**F01D 25/30** (2013.01); **F22B 1/1815** (2013.01); **F05D 2250/324** (2013.01)

Citation (search report)

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- [A] BAUVER W P ET AL: "Gas turbine heat recovery steam generator system performance improvement through gas flow optimization", 6TH INTERNATIONAL CONFERENCE ON GAS TURBINES IN COGENERATION AND UTILITY INDUSTRIAL AND INDEPENDENT POWER GENERATION - 1992 ASME COGEN-TURBO;HOUSTON, TX, USA SEP 1-3 1992, vol. 7, 1992, ASME Int Gas Turbine Inst Publ IGTI;American Society of Mechanical Engineers, International Gas Turbine Institute (Publication) IGTI 1992 Publ by ASME, New York, NY, USA, pages 303 - 310, XP002103649

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Designated contracting state (EPC)  
AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)  
**EP 0863364 A2 19980909**; **EP 0863364 A3 19990728**; IT 1290579 B1 19981210; IT MI970509 A1 19980907

DOCDB simple family (application)  
**EP 98200705 A 19980306**; IT MI970509 A 19970307