

Title (en)  
REHEAT BOILER AND GAS TEMPERATURE CONTROL METHOD OF REHEAT BOILER

Title (de)  
BOILER VOM ZWISCHENÜBERHITZERTYP UND GASTEMPERATURREGELVERFAHREN EINES BOILERS VOM ZWISCHENÜBERHITZERTYP

Title (fr)  
CHAUDIÈRE À SURCHAUFFE ET PROCÉDÉ DE RÉGULATION DE LA TEMPÉRATURE DU GAZ D'UNE CHAUDIÈRE À SURCHAUFFE

Publication  
**EP 2206952 A4 20140611 (EN)**

Application  
**EP 08765283 A 20080606**

Priority

- JP 2008060470 W 20080606
- JP 2007270225 A 20071017

Abstract (en)  
[origin: EP2206952A1] A reheat boiler according to the present invention includes a main boiler configured to make combustion gas originating from combustion in a burner flow from a furnace (102) and pass through a super heater and an evaporation tube bank, a reheat furnace (108) including a reheat burner (107) provided downstream of the evaporation tube bank, and a reheater (109) provided on the upper side of the reheat furnace (108), and also includes a combustion air supply portion (12) that is provided at a position opposite to the reheat burner (107) in the reheat furnace (108) to supply a part of the combustion air as combustion air (11b). By making combustion gas (107a) and the combustion air (11b) collide head-on to facilitate mixing of the combustion gas (107a) with the combustion air (11b), the flow patterns of the combustion gas are changed, whereby temperature unevenness of the combustion gas (107a) at the outlet of the reheat furnace (108) is reduced.

IPC 8 full level  
**F22G 1/16** (2006.01); **F01K 15/04** (2006.01); **F22B 21/00** (2006.01); **F22B 21/08** (2006.01); **F22B 35/00** (2006.01); **F22G 5/04** (2006.01); **F22G 7/12** (2006.01); **F23C 6/04** (2006.01); **F23C 7/02** (2006.01); **F23L 9/02** (2006.01)

CPC (source: EP US)  
**F01K 15/04** (2013.01 - EP US); **F22B 21/002** (2013.01 - EP US); **F22B 21/081** (2013.01 - EP US); **F22B 35/00** (2013.01 - EP US); **F22G 1/16** (2013.01 - EP US); **F22G 7/12** (2013.01 - EP US); **F23C 6/042** (2013.01 - EP US); **F23C 7/02** (2013.01 - EP US); **F23L 9/02** (2013.01 - EP US)

Citation (search report)

- [A] US 3956898 A 19760518 - HORLITZ JR CARL FREDERICK
- [A] JP S54103906 A 19790815 - MITSUBISHI HEAVY IND LTD
- [A] US 3948223 A 19760406 - BENSON ELLIOT WARREN
- See references of WO 2009050917A1

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

DOCDB simple family (publication)  
**EP 2206952 A1 20100714; EP 2206952 A4 20140611; EP 2206952 B1 20160224**; CN 101821550 A 20100901; CN 101821550 B 20121114; DK 2206952 T3 20160606; JP 2009097802 A 20090507; JP 5010425 B2 20120829; KR 101191496 B1 20121015; KR 20100058644 A 20100603; US 2010236501 A1 20100923; WO 2009050917 A1 20090423

DOCDB simple family (application)  
**EP 08765283 A 20080606**; CN 200880111406 A 20080606; DK 08765283 T 20080606; JP 2007270225 A 20071017; JP 2008060470 W 20080606; KR 20107008395 A 20080606; US 68235408 A 20080606