

Title (en)

Device for the inlet of hot gases in the tubes of a heating surface, welded to the end plate of a waste heat boiler

Title (de)

Vorrichtung für den Eintritt von Heissgas in mit einer Rohrplatte eines Abhitzekessels verschweissten Heizflächenrohren

Title (fr)

Dispositif pour l'entrée de gaz chauds dans les tubes d'une surface chauffante, soudés à la plaque tubulaire d'une chaudière de récupération

Publication

EP 1139056 B1 20040707 (DE)

Application

EP 01107319 A 20010323

Priority

DE 10015343 A 20000328

Abstract (en)

[origin: EP1139056A2] The device is for the input of hot gas into heating surface pipes (3) welded with a pipe plate (1) of a heating boiler. In each heating surface pipe is an inlet pipe (5), which has a conically narrowing inlet (5a) located at a distance from the pipe plate. On the outside of the pipe plate is an insulation (6) between the inlet pipes. The inlet pipes are suspended inn the pipe plate and support on the pipe plate/heating surface pipe assembly. On each inlet pipe, prior to its suspension in the pipe plate, a ring-shaped insulation piece (6) is pushed.

IPC 1-7

F28F 19/00; **F28F 9/18**

IPC 8 full level

F28F 9/18 (2006.01); **F28F 19/00** (2006.01)

CPC (source: EP)

F28F 19/002 (2013.01); **F28D 2021/0075** (2013.01)

Cited by

CN102460021A; AU2006279260B2; US8291968B2; WO2010139852A1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)

EP 1139056 A2 20011004; **EP 1139056 A3 20030827**; **EP 1139056 B1 20040707**; AT E270768 T1 20040715; DE 10015343 A1 20011011; DE 10015343 C2 20020523; DE 50102777 D1 20040812; DK 1139056 T3 20041025; ES 2223670 T3 20050301; PT 1139056 E 20041130

DOCDB simple family (application)

EP 01107319 A 20010323; AT 01107319 T 20010323; DE 10015343 A 20000328; DE 50102777 T 20010323; DK 01107319 T 20010323; ES 01107319 T 20010323; PT 01107319 T 20010323