

Title (en)
WASTE HEAT BOILER

Title (de)
ABWÄRMEKESSEL

Title (fr)
CHAUDIÈRE À RÉCUPÉRATION DE CHALEUR

Publication
EP 3258168 A2 20171220 (EN)

Application
EP 16748738 A 20160206

Priority
• CN 201520104147 U 20150212
• CN 201510076305 A 20150212
• CN 2016073724 W 20160206

Abstract (en)
The present invention provides with a waste heat boiler and a hammering device, a heating tube mounting structure thereof. The waste heat boiler of the present invention comprises a boiler (1), heating tubes (4) provided in the boiler (1) and a hammering device; the boiler (1) is provided with an exhaust gas inlet (2) and an exhaust gas outlet (3); the heating tubes (4) are in a horizontal grid tube arrangement; a surface of the heating tubes (4) is provided with fins (23), and the heating tubes (4) are connected to support assemblies (5) in an unfixed way.

IPC 8 full level
F22B 1/18 (2006.01); **F23J 3/00** (2006.01); **F23J 3/02** (2006.01); **F28F 9/013** (2006.01)

CPC (source: EP)
F22B 1/18 (2013.01); **F22B 37/20** (2013.01); **F22B 37/204** (2013.01); **F23J 3/00** (2013.01); **F23J 3/02** (2013.01); **F28D 21/001** (2013.01); **F28F 9/013** (2013.01); **F28F 9/0138** (2013.01); **F28G 7/00** (2013.01); **F01K 23/064** (2013.01)

Cited by
CN116067215A

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

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 3258168 A2 20171220; **EP 3258168 A4 20190220**; **EP 3258168 B1 20230712**; ES 2955103 T3 20231128; JP 2018508739 A 20180329; JP 2019023559 A 20190214; JP 6491360 B2 20190327

DOCDB simple family (application)
EP 16748738 A 20160206; ES 16748738 T 20160206; JP 2017560862 A 20160206; JP 2018170790 A 20180912