

Title (en)
HEAT EXCHANGER FOR HEATING BOILERS

Title (de)
WÄRMETAUSCHER FÜR HEIZKESSEL

Title (fr)
ÉCHANGEUR DE CHALEUR DESTINÉ À DES CHAUDIÈRES DE PRODUCTION D'EAU CHAUDE

Publication
EP 2681499 A1 20140108 (EN)

Application
EP 12714070 A 20120302

Priority

- IT MN20110005 A 20110303
- IT MN20110006 A 20110303
- IT MN20110007 A 20110303
- IT 2012000063 W 20120302

Abstract (en)
[origin: WO2012117432A1] The invention relates to a heat exchanger of the fumes-water type configured to couple with a burner for the manufacture of boilers for domestic or industrial use. The heat exchanger is essentially constituted of an exchanging body (2) made of die-cast aluminium with two half-shells (2a and 2b), to be mounted in a mutually opposing fashion, and enclosed within a casing (3), made of a plastic or aluminium material, formed of two half-parts (3 a and 3b) to couple in order to contain therewithin the exchanging body (2), thus constituting two seats, one internal one for the flow of fumes and the other, external, one for the flow of water, which runs upwards from the bottom, passing all around the exchanging body (2) with a mixed route (partly parallel and partly spiral). The exchanger in question is of the "cross flow" type, i.e. the input on the water side corresponds with the heat exchanger fumes output and allows high heat exchange performance.

IPC 8 full level
F24H 1/24 (2006.01); **F24H 1/30** (2006.01); **F24H 9/14** (2006.01)

CPC (source: EP US)
F24H 1/30 (2013.01 - EP US); **F24H 8/00** (2013.01 - EP US); **F24H 9/14** (2013.01 - EP US); **F24H 9/146** (2013.01 - EP US); **F28D 1/0472** (2013.01 - US); **Y02B 30/00** (2013.01 - EP US)

Citation (search report)
See references of WO 2012117432A1

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

DOCDB simple family (publication)
WO 2012117432 A1 20120907; CA 2828912 A1 20120907; EA 201300983 A1 20140430; EP 2681499 A1 20140108; US 2014014306 A1 20140116

DOCDB simple family (application)
IT 2012000063 W 20120302; CA 2828912 A 20120302; EA 201300983 A 20120302; EP 12714070 A 20120302; US 201214002853 A 20120302