

Title (en)
HEAT EXCHANGER ELEMENT

Title (de)
WÄRMETAUSCHERELEMENT

Title (fr)
ÉLÉMENT D'ÉCHANGEUR DE CHALEUR

Publication
EP 3425301 A1 20190109 (EN)

Application
EP 17180239 A 20170707

Priority
EP 17180239 A 20170707

Abstract (en)
A Heat exchanger element comprises a combustion chamber for the generation of hot gas; a meandering water flow channel for the flow of water to be heated; and two metal walls delimiting the water flow channel, for exchanging heat between the hot gas and water flowing through the water flow channel. The water flow channel is provided for water flow in counter direction to the flow of hot gas. The water flow channel comprises a number of consecutive parallel straight segments. The water flow channel comprises at least three U-turns which are each connecting two consecutive straight segments separated by an intermediate wall. At least one of the intermediate walls has one or a plurality of through openings.

IPC 8 full level
F24H 1/32 (2006.01); **F24H 9/00** (2006.01)

CPC (source: EP)
F24H 1/32 (2013.01); **F24H 9/0015** (2013.01); **F24H 9/0026** (2013.01); **F28D 9/0056** (2013.01); **F28D 9/0081** (2013.01); **F28D 21/0007** (2013.01); **F28F 3/022** (2013.01); **F28F 3/048** (2013.01); **F28F 21/084** (2013.01); **F28F 2255/14** (2013.01)

Citation (applicant)
WO 2015024712 A1 20150226 - BEKAERT COMB TECHNOLOGY BV [NL]

Citation (search report)
• [IY] DE 69801631 T2 20020627 - DIETRICH THERMIQUE NIEDERBRONN [FR]
• [Y] EP 3173722 A1 20170531 - DAIKIN IND LTD [JP], et al
• [A] EP 1028298 A1 20000816 - HOLDING J H DECKERS N V [AN]
• [AD] WO 2015024712 A1 20150226 - BEKAERT COMB TECHNOLOGY BV [NL]

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

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