

Title (en)

SECTIONAL HEAT EXCHANGER FOR USE IN A HEAT CELL

Title (de)

GLIEDERWÄRMETAUSCHER ZUR VERWENDUNG IN EINEM GLIEDERHEIZKESSEL

Title (fr)

ÉCHANGEUR DE CHALEUR SECTIONNEL À UTILISER DANS UNE CELLULE THERMIQUE

Publication

EP 3426986 B1 20191120 (EN)

Application

EP 17707588 A 20170303

Priority

- EP 16159385 A 20160309
- EP 2017055036 W 20170303

Abstract (en)

[origin: WO2017153280A1] A sectional heat exchanger for a condensing heat cell comprises two end segments and one or more than one intermediate segment(s). The one or the more than one intermediate segment(s) and the two end segments are assembled in the heat exchanger. A combustion chamber is provided in the sectional heat exchanger. Each of the one or the more than one intermediate segment(s) comprises at least one water flow channel for water to be heated. Between each two consecutive segments at least one flue gas flow channel is provided, extending from the combustion chamber. The one or the more than one intermediate segment(s) each comprise a horizontal row of ribs extending into the flue gas flow channel in order to increase heat exchange from the flue gas to the water to be heated. Ribs at the two outer sides of the horizontal row of ribs have a larger height than ribs in the middle of the row of ribs. With height of the rib is meant the dimension of the rib in the vertical direction of the sectional heat exchanger. The more than one intermediate segment(s) each comprise a plurality of rows of pins extending in the flue gas channel to increase heat transfer.

IPC 8 full level

F24H 1/32 (2006.01); **F24H 9/00** (2006.01)

CPC (source: EA EP US)

F24H 1/32 (2013.01 - EA EP US); **F24H 9/0026** (2013.01 - EA EP US)

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 2017153280 A1 20170914; CL 2018002525 A1 20181228; CN 108779937 A 20181109; EA 034441 B1 20200207; EA 201892014 A1 20190228; EP 3426986 A1 20190116; EP 3426986 B1 20191120; US 2019011149 A1 20190110

DOCDB simple family (application)

EP 2017055036 W 20170303; CL 2018002525 A 20180904; CN 201780016151 A 20170303; EA 201892014 A 20170303; EP 17707588 A 20170303; US 201716068221 A 20170303