

Title (en)

HEAT EXCHANGER FOR HEATING TEMPERATURE AND RESIDENCE TIME SENSITIVE PRODUCTS

Title (de)

WÄRMETAUSCHER ZUR ERWÄRMUNG VON TEMPERATUR- UND VERWEILZEITEMPFINDLICHEN PRODUKTEN

Title (fr)

ÉCHANGEUR DE CHALEUR SERVANT À CHAUFFER DES PRODUITS SENSIBLES À LA TEMPÉRATURE ET AU TEMPS DE SÉJOUR

Publication

**EP 2245407 A1 20101103 (DE)**

Application

**EP 08872773 A 20081201**

Priority

- EP 2008066485 W 20081201
- DE 102008011341 A 20080227

Abstract (en)

[origin: CA2716616A1] The invention relates to a tube bundle heat exchanger for transferring heat for the temperature sensitive and/or polymerisable substances. Said heat exchanger comprises a housing (4) having one or more product outlets (8) and one or more product inlets (1) and a tube bundle is arranged in said housing. Displacer rods (7, 10, 12, 15) are arranged in the tubes of the tube bundle and at least one heat exchanger cap of the tube bundle heat exchanger is filled with displacer bodies (3) for reducing the volume filled with the product.

IPC 8 full level

**F28F 27/02** (2006.01); **F28F 9/02** (2006.01); **F28F 13/06** (2006.01)

CPC (source: EP US)

**F28D 7/16** (2013.01 - EP US); **F28F 9/0263** (2013.01 - EP US); **F28F 13/06** (2013.01 - EP US)

Citation (search report)

See references of WO 2009106174A1

Citation (examination)

- DE 3045731 A1 19820708 - BBC YORK KAELTE KLIMA [DE]
- DE 1501484 A1 19691023 - CHRISTIAN CARL FA

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA MK RS

DOCDB simple family (publication)

**DE 102008011341 A1 20090903**; BR PI0822263 A2 20150623; CA 2716616 A1 20090903; CN 101532792 A 20090916; EP 2245407 A1 20101103; JP 2011513685 A 20110428; KR 20100135725 A 20101227; MX 2010009521 A 20110329; RU 2010139276 A 20120410; TW 201000844 A 20100101; US 2011017439 A1 20110127; WO 2009106174 A1 20090903

DOCDB simple family (application)

**DE 102008011341 A 20080227**; BR PI0822263 A 20081201; CA 2716616 A 20081201; CN 200910007748 A 20090224; EP 08872773 A 20081201; EP 2008066485 W 20081201; JP 2010547968 A 20081201; KR 20107018943 A 20081201; MX 2010009521 A 20081201; RU 2010139276 A 20081201; TW 98105799 A 20090224; US 91895208 A 20081201