

Title (en)
HEAT EXCHANGER

Title (de)
WÄRMETAUSCHER

Title (fr)
ÉCHANGEUR DE CHALEUR

Publication
EP 2110635 A1 20091021 (EN)

Application
EP 07832211 A 20071120

Priority
• JP 2007072481 W 20071120
• JP 2006314864 A 20061121

Abstract (en)
A stacked plate type heat exchanger having compactness and providing a heat exchanging rate per unit volume of 10 MWt/m³ or more is used under conditions of high temperature and high pressure of 4 to 7 MPa of pressure difference between a primary fluid and a secondary fluid, and 500°C to 900°C of maximum operating temperature. A thickness of metal plate is set at 0.3 times or more of an equivalent diameter of a flow path, and a pitch between flow paths along a width direction of the metal plate is set at 0.5 times or more of the equivalent diameter of the flow path.

IPC 8 full level
F28F 3/04 (2006.01); **F28D 9/00** (2006.01); **F28F 3/06** (2006.01); **F28F 3/08** (2006.01); **F28F 21/08** (2006.01)

CPC (source: EP US)
F28D 9/0037 (2013.01 - EP US); **F28F 3/04** (2013.01 - EP US); **F28F 2250/102** (2013.01 - EP US)

Cited by
CN103278035A; EP2518428A3; EP3199903A1; CN106996708A; FR2991443A1; CN104736960A; US9541333B2; US9905319B2; WO2017019142A1; WO2013182584A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
EP 2110635 A1 20091021; **EP 2110635 A4 20131211**; JP 2008128574 A 20080605; US 2010051248 A1 20100304; WO 2008062802 A1 20080529

DOCDB simple family (application)
EP 07832211 A 20071120; JP 2006314864 A 20061121; JP 2007072481 W 20071120; US 51574007 A 20071120