

Title (en)

Spiral pipe heat exchanger with tilted pipe sections

Title (de)

Spiralrohr-Wärmetauscher mit geneigten Rohrabschnitten

Title (fr)

Échangeur de chaleur à tubes spirales avec des sections penchés

Publication

EP 2295913 A3 20111207 (EN)

Application

EP 10173013 A 20100817

Priority

JP 2009191138 A 20090820

Abstract (en)

[origin: EP2295913A2] A spiral heat-transfer pipe (2a-2h) for heat exchange provided in a heat exchanger (1) includes: an upstream heat-transfer pipe section (22) disposed on an upstream side of a flow path of an external fluid flowing outside the spiral heat-transfer pipe (2); and a downstream heat-transfer pipe section (24) disposed on a downstream side of the flow path. Each of the heat-transfer pipe sections (22, 24) is disposed so as to extend in a direction crossing the flow path of the external fluid. Each of an axis (12) of the upstream heat-transfer pipe section (22) and an axis (14) of the downstream heat-transfer pipe section (24) is tilted with respect to a horizontal plane. Also, the axis (12) of the upstream heat-transfer pipe section (22) crosses the axis (14) of the downstream heat-transfer pipe section (24).

IPC 8 full level

F28D 7/02 (2006.01); **F28D 7/16** (2006.01); **F28F 9/013** (2006.01)

CPC (source: EP US)

F28D 7/02 (2013.01 - EP US); **F28D 7/1623** (2013.01 - EP US); **F28F 9/013** (2013.01 - EP US); **F28F 17/005** (2013.01 - EP US); **F28F 2240/00** (2013.01 - EP US)

Citation (search report)

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- [X] EP 0678186 A1 19951025 - LE MER JOSEPH [FR]
- [A] DE 1119883 B 19611221 - BAELEZ GMBH HELMUT [DE]
- [A] US 2008006226 A1 20080110 - TAKEDA NOBUHIRO [JP], et al
- [A] JP 2006242458 A 20060914 - DENSO CORP

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 SE SI SK SM TR

Designated extension state (EPC)

BA ME RS

DOCDB simple family (publication)

EP 2295913 A2 20110316; **EP 2295913 A3 20111207**; **EP 2295913 A8 20120222**; **EP 2295913 B1 20130605**; AU 2010212319 A1 20110310; AU 2010212319 B2 20150625; ES 2417322 T3 20130807; JP 2011043281 A 20110303; JP 5073719 B2 20121114; US 2011042039 A1 20110224

DOCDB simple family (application)

EP 10173013 A 20100817; AU 2010212319 A 20100813; ES 10173013 T 20100817; JP 2009191138 A 20090820; US 85828910 A 20100817