

Title (en)
HEAT EXCHANGER

Title (de)
WÄRMETAUSCHER

Title (fr)
ECHANGEUR DE CHALEUR

Publication
EP 2245406 B1 20150715 (EN)

Application
EP 09702022 A 20090114

Priority
• US 2009030978 W 20090114
• US 2088208 P 20080114

Abstract (en)
[origin: US2009178779A1] A heat exchanger having an arrangement of heat transfer surfaces and a pair of vertical steam/water separators structurally interconnected to one another to provide an integral support structure for the heat exchanger. The structural interconnection includes upper and lower structural members extending between the pair of vertical steam/water separators. The upper and lower structural members include headers, and an arrangement of heating surface which extends between and is fluidically connected to the headers. A structural support framework surrounds the heat exchanger for bottom support thereof, the framework providing structural support and rigidity for the heat exchanger and a means by which the heat exchanger can be picked up and lifted for placement at a desired location.

IPC 8 full level
F28F 9/00 (2006.01); **F22B 21/20** (2006.01); **F22B 29/02** (2006.01); **F22B 37/20** (2006.01); **F22B 37/24** (2006.01); **F28D 1/04** (2006.01); **F28D 1/053** (2006.01)

CPC (source: EP ES US)
F22B 21/20 (2013.01 - EP ES US); **F22B 29/023** (2013.01 - EP US); **F22B 37/20** (2013.01 - EP ES US); **F22B 37/242** (2013.01 - EP ES US); **F28D 1/0417** (2013.01 - EP US); **F28D 1/0426** (2013.01 - EP US); **F28D 1/05316** (2013.01 - EP ES US); **F28F 9/001** (2013.01 - EP ES US)

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 MK MT NL NO PL PT RO SE SI SK TR

DOCDB simple family (publication)
US 2009178779 A1 20090716; AU 2009205434 A1 20090723; AU 2009205434 B2 20130620; BR PI0907256 A2 20190924; CA 2712027 A1 20090723; CN 101910776 A 20101208; CN 101910776 B 20131204; EP 2245406 A1 20101103; EP 2245406 A4 20111130; EP 2245406 B1 20150715; ES 2376814 A1 20120320; ES 2376814 B2 20130611; IL 206741 A0 20101230; IL 206741 A 20130324; MA 32011 B1 20110103; MX 2010007654 A 20100809; MX 336768 B 20160129; NZ 586755 A 20130222; PT 2009091816 Y 20120119; RO 128317 A2 20130430; WO 2009091816 A1 20090723; ZA 201004604 B 20110330

DOCDB simple family (application)
US 35371609 A 20090114; AU 2009205434 A 20090114; BR PI0907256 A 20090114; CA 2712027 A 20090114; CN 200980102568 A 20090114; EP 09702022 A 20090114; ES 201090047 A 20090114; IL 20674110 A 20100630; MA 33009 A 20100709; MX 2010007654 A 20090114; NZ 58675509 A 20090114; PT 2009030978 U 20090114; RO 201000607 A 20090114; US 2009030978 W 20090114; ZA 201004604 A 20100630