Title (en)

CONDENSER

Title (de)

KONDENSATOR

Title (fr)

CONDENSEUR

Publication

EP 2909563 A1 20150826 (DE)

Application

EP 13756157 A 20130902

Priority

- DE 102012217090 A 20120921
- EP 2013068092 W 20130902

Abstract (en)

[origin: WO2014044520A1] The invention relates to a condenser (1, 60, 70) in stacked-plate design. The condenser comprises a first flow channel (25, 64, 73, 79) for a refrigerant and a second flow channel (26, 31, 42, 52, 67) for a coolant. A plurality of plate elements is provided, which form channels adjacent to each other between the plate elements when the plate elements are stacked on top of each other. A first subset of the channels is associated with the first flow channel (25, 64, 73, 79) and a second subset of the channels is associated with the second flow channel (26, 31, 42, 52, 67). The first flow channel (25, 64, 73, 79) has a first region (3, 80) for desuperheating and condensing the vaporous refrigerant and a second region (4, 81, 62) for subcooling the condensed refrigerant. The condenser also comprises a receiver (2) for storing a refrigerant. A refrigerant transfer from the first region (3, 80) to the second region (4, 81, 62) leads through the receiver (2). The condenser is characterized in that the receiver (2) is in fluid communication with the first region (3, 80) by means of a first connection element, which forms the fluid inlet (12) of the receiver (2), a second connection element being in fluid communication with the second region (4, 81, 62) as a fluid outlet (6) of the receiver (2).

IPC 8 full level

F25B 39/04 (2006.01); **F28D 9/00** (2006.01); **F28D 21/00** (2006.01); **F28F 9/26** (2006.01)

CPC (source: EP US)

F25B 39/00 (2013.01 - US); **F25B 39/04** (2013.01 - EP US); **F28D 9/0056** (2013.01 - EP US); **F28D 9/0075** (2013.01 - EP US); **F28F 9/0253** (2013.01 - EP US); **F28F 9/26** (2013.01 - EP US); F25B 2339/043 (2013.01 - EP US); F25B 2339/044 (2013.01 - EP US); F28D 2021/0084 (2013.01 - EP US)

Citation (search report)

See references of WO 2014044520A1

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

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

WO 2014044520 A1 20140327; CN 104641199 A 20150520; CN 104641199 B 20170301; DE 102012217090 A1 20140327; EP 2909563 A1 20150826; EP 2909563 B1 20180815; KR 20150060779 A 20150603; US 10060658 B2 20180828; US 2016161160 A1 20160609

DOCDB simple family (application)

EP 2013068092 W 20130902; CN 201380047886 A 20130902; DE 102012217090 A 20120921; EP 13756157 A 20130902; KR 20157009850 A 20130902; US 201314429911 A 20130902