

Title (en)
HEAT EXCHANGER

Title (de)
WÄRMEÜBERTRAGER

Title (fr)
ÉCHANGEUR DE CHALEUR

Publication
EP 3317603 A1 20180509 (DE)

Application
EP 16726609 A 20160603

Priority
• DE 102015212433 A 20150702
• EP 2016062643 W 20160603

Abstract (en)
[origin: WO2017001147A1] The invention relates to a heat exchanger (1) having a first section (3), through which a first medium can flow, and a second section (5), through which a second medium can flow, wherein during operation a heat exchange takes place between the first and the second medium, wherein the first section (3) has an inlet chamber (7) and first pipes (9) connected to the inlet chamber, and an outlet chamber (13) and second pipes (15) connected to the outlet chamber (13), wherein the first pipes (9) are each closed at the ends (9a) facing away from the inlet chamber (7) and wherein each second pipe (15) is at least partly arranged inside one of the first pipes (9), and the end (15a) of the second pipe (15) that faces away from the outlet chamber (13) is open to the interior of the respective first pipe (9), wherein the second section (5) has an inlet means (19) and an outlet means (21), wherein the inlet means (19) opens into a heat exchanger chamber (27) and the heat exchanger chamber (27) at least partly surrounds first pipes (9) of the first section (3) and wherein the heat exchanger chamber (27) is connected to the outlet means (21). According to the invention the inlet means (19) have a shut-off device (41) for shutting off the fluid flow of the second medium into the heat exchanger chamber (27), and a bypass device (37) connects the inlet means (29) and the outlet means (21) to lead the fluid flow of the second medium at least partly past the heat exchanger chamber (27), wherein the shut-off device (41) is arranged downstream of the bypass device (37) in the flow direction of the second medium.

IPC 8 full level
F28D 7/12 (2006.01); **F28F 9/02** (2006.01); **F28F 27/02** (2006.01)

CPC (source: EP RU US)
F28D 7/12 (2013.01 - EP RU US); **F28F 9/0229** (2013.01 - EP US); **F28F 9/22** (2013.01 - RU); **F28F 27/02** (2013.01 - EP RU US);
F28F 2250/06 (2013.01 - EP US)

Citation (search report)
See references of WO 2017001147A1

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 2017001147 A1 20170105; CN 107850405 A 20180327; CN 107850405 B 20190430; DE 102015212433 A1 20170105;
DK 3317603 T3 20190408; EP 3317603 A1 20180509; EP 3317603 B1 20190102; ES 2714927 T3 20190530; JP 2018519495 A 20180719;
JP 6813516 B2 20210113; RU 2018103948 A 20190802; RU 2018103948 A3 20190802; RU 2700215 C2 20190913; US 10281224 B2 20190507;
US 2018187988 A1 20180705

DOCDB simple family (application)
EP 2016062643 W 20160603; CN 201680039411 A 20160603; DE 102015212433 A 20150702; DK 16726609 T 20160603;
EP 16726609 A 20160603; ES 16726609 T 20160603; JP 2017568422 A 20160603; RU 2018103948 A 20160603;
US 201615739830 A 20160603