

Title (en)

REFRIGERATION SYSTEMS AND METHODS

Title (de)

KÜHLSYSTEM UND -VERFAHREN

Title (fr)

SYSTÈMES ET PROCÉDÉS DE RÉFRIGÉRATION

Publication

**EP 3642540 A4 20210512 (EN)**

Application

**EP 18819796 A 20180621**

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- US 201762522851 P 20170621
- US 201762522860 P 20170621
- US 2018038854 W 20180621

Abstract (en)

[origin: WO2018237208A1] Disclosed are distributed refrigeration systems, comprising: a plurality of first refrigeration circuits, with each first refrigeration circuit being provided in a respective refrigeration unit; a second refrigeration circuit, the second refrigeration circuit comprising a second circuit heat exchanger; and a third refrigeration circuit, wherein each first circuit heat exchanger is arranged to transfer heat energy between its respective first refrigeration circuit and the second refrigeration circuit; and a third circuit heat exchanger arranged to transfer heat energy between the second refrigeration circuit and the third refrigeration circuit.

IPC 8 full level

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**C09K 2205/126** (2013.01 - EP KR); **F25B 2400/06** (2013.01 - EP KR); **F25B 2400/121** (2013.01 - KR)

Citation (search report)

- [I] US 2016137895 A1 20160519 - KONTOMARIS KONSTANTINOS [US], et al
- [A] US 2017029679 A1 20170202 - VAN HORN BRETT L [US], et al
- See also references of WO 2018237208A1

Designated contracting state (EPC)

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DOCDB simple family (publication)

**WO 2018237208 A1 20181227**; **WO 2018237208 A8 20200507**; BR 112019027375 A2 20200707; CA 3068021 A1 20181227;  
CN 111033149 A 20200417; CN 115493308 A 20221220; EP 3642540 A1 20200429; EP 3642540 A4 20210512; JP 2020525747 A 20200827;  
JP 2023116735 A 20230822; KR 102636893 B1 20240216; KR 20200021932 A 20200302; KR 20230035461 A 20230313;  
KR 20240024340 A 20240223; MX 2019015339 A 20200219

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CN 202210891171 A 20180621; EP 18819796 A 20180621; JP 2019570834 A 20180621; JP 2023099886 A 20230619;  
KR 20197037300 A 20180621; KR 20237007320 A 20180621; KR 20247004714 A 20180621; MX 2019015339 A 20180621