

Title (en)
REFRIGERATION CIRCUIT WITH HEAT RECOVERY MODULE

Title (de)
KÄLTEKREISLAUF MIT WÄRMERÜCKGEWINNUNGSMODUL

Title (fr)
CIRCUIT DE RÉFRIGÉRATION AVEC MODULE DE RÉCUPÉRATION DE CHALEUR

Publication
EP 3086057 B1 20180613 (EN)

Application
EP 16165542 A 20130919

Priority

- EP 16165542 A 20130919
- EP 13763104 A 20130919
- EP 2013069510 W 20130919

Abstract (en)
[origin: WO2015039688A1] A refrigeration circuit (1) configured for circulating a refrigerant and comprises in the direction of flow of the refrigerant: at least one compressor (2a, 2b, 2c, 2d); at least one heat recovery heat exchanger (4); at least one gas cooler/condenser (10); at least one evaporator associated expansion device (18); at least one receiver (14); and at least one evaporator (20). The refrigeration circuit (1) further comprises a gas/liquid separator (8) having a refrigerant inlet line (7) fluidly connected to an outlet-side of the at least one heat recovery heat exchanger (4); an gaseous phase outlet line (9) fluidly connected to an inlet side of the at least one gas cooler/condenser (10); and an liquid phase outlet line (13) fluidly connected to the receiver (14).

IPC 8 full level
F25B 43/00 (2006.01); **F25B 49/02** (2006.01)

CPC (source: EP RU US)
F25B 41/39 (2021.01 - EP); **F25B 43/00** (2013.01 - EP RU US); **F25B 49/027** (2013.01 - RU US); **F25B 41/39** (2021.01 - US); **F25B 2339/047** (2013.01 - EP US); **F25B 2400/06** (2013.01 - EP US); **F25B 2400/13** (2013.01 - EP US); **F25B 2400/16** (2013.01 - EP US); **F25B 2400/23** (2013.01 - EP US); **F25B 2600/05** (2013.01 - EP US); **F25B 2600/2519** (2013.01 - EP US); **F25B 2700/04** (2013.01 - EP US)

Cited by
CN111637667A

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

DOCDB simple family (publication)
WO 2015039688 A1 20150326; CN 105556220 A 20160504; CN 105556220 B 20190122; DK 3047218 T3 20210705; DK 3086057 T3 20180917; EP 3047218 A1 20160727; EP 3047218 B1 20210428; EP 3086057 A1 20161026; EP 3086057 B1 20180613; RU 2016115092 A 20171024; RU 2659679 C2 20180703; US 2016231040 A1 20160811

DOCDB simple family (application)
EP 2013069510 W 20130919; CN 201380079723 A 20130919; DK 13763104 T 20130919; DK 16165542 T 20130919; EP 13763104 A 20130919; EP 16165542 A 20130919; RU 2016115092 A 20130919; US 201315022777 A 20130919