

Title (en)

REFRIGERATION SYSTEM AND METHOD FOR OPERATING A REFRIGERATION SYSTEM

Title (de)

KÜHLSYSTEM UND VERFAHREN FÜR DEN BETRIEB EINES KÜHLSYSTEMS

Title (fr)

SYSTÈME DE RÉFRIGÉRATION ET PROCÉDÉ DE FONCTIONNEMENT D'UN SYSTÈME DE RÉFRIGÉRATION

Publication

EP 2663817 A1 20131120 (EN)

Application

EP 11701483 A 20110114

Priority

EP 2011050484 W 20110114

Abstract (en)

[origin: WO2012095186A1] A refrigeration system (2) comprises a condenser/gas cooler (4), an intermediate expansion device (6) and a refrigerant collecting container (8); a normal refrigeration branch (10) connecting the refrigerant collecting container (8) to the condenser/ gas cooler (4) said normal refrigeration branch (12) comprising a first expansion device (12), a first evaporator (14) and a compressor unit (16) of the normal refrigeration branch (10); a freezing branch (18) connecting the refrigerant collecting container (8) to the the condenser/ gas cooler (4), said freezing branch (18) comprising a second expansion device (20), a second evaporator (22), and a first compressor unit (24) and a second compressor unit (26) of said freezing branch (18), the first and second compressor units (24, 26) of the freezing branch (18) being connected in series. A flash gas line (28) is provided connecting the gas space of the refrigerant collecting container (8) to the line connecting the first compressor unit (24) to the second compressor unit (26) of said freezing branch (18). Refrigerant conduits for connecting said elements and for circulating a refrigerant therethrough are also provided.

IPC 8 full level

F25B 1/10 (2006.01); **F25B 31/00** (2006.01)

CPC (source: EP US)

F25B 1/10 (2013.01 - EP US); **F25B 31/004** (2013.01 - EP US); **F25B 49/02** (2013.01 - US); **F25B 2309/061** (2013.01 - EP US); **F25B 2400/075** (2013.01 - EP US); **F25B 2400/13** (2013.01 - EP US); **F25B 2400/23** (2013.01 - EP US)

Citation (search report)

See references of WO 2012095186A1

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 2012095186 A1 20120719; CN 103282729 A 20130904; CN 103282729 B 20150930; DK 2663817 T3 20190128; EP 2663817 A1 20131120; EP 2663817 B1 20181017; US 2013283833 A1 20131031

DOCDB simple family (application)

EP 2011050484 W 20110114; CN 201180064994 A 20110114; DK 11701483 T 20110114; EP 11701483 A 20110114; US 201113978931 A 20110114