

Title (en)  
REFRIGERATION CYCLE DEVICE

Title (de)  
KÄLTEKREISLAUFVORRICHTUNG

Title (fr)  
DISPOSITIF À CYCLE DE RÉFRIGÉRATION

Publication  
**EP 3575711 A4 20200101 (EN)**

Application  
**EP 17894265 A 20171207**

Priority  
• JP 2017011594 A 20170125  
• JP 2017199593 A 20171013  
• JP 2017044010 W 20171207

Abstract (en)  
[origin: EP3575711A1] A refrigeration cycle device (1) has a switching unit (13) disposed on a discharge side of a first compressor (11) to switch a flow of refrigerant discharged from the first compressor to a first passage (21) or a second passage (22). A first connector (25) is provided upstream of a condenser (14), and connects the first passage (21) and the second passage (22) with each other. A second compressor (12) is disposed on a middle of the second passage (22). A third passage (23) is branched at a branch unit (27) downstream of the condenser (14), and a second connector (26) connects a part of the second passage (22) on a suction side of the second compressor (12) and a part of the third passage downstream of an intermediate heat exchanger (16).

IPC 8 full level  
**F25B 1/10** (2006.01); **F25B 1/00** (2006.01); **F25B 1/04** (2006.01); **F25B 41/00** (2006.01); **F25B 41/04** (2006.01); **F25B 49/02** (2006.01)

CPC (source: EP US)  
**F25B 1/10** (2013.01 - EP US); **F25B 49/02** (2013.01 - EP); **F25B 1/04** (2013.01 - EP); **F25B 41/42** (2021.01 - EP US); **F25B 2400/0401** (2013.01 - EP); **F25B 2400/075** (2013.01 - EP); **F25B 2400/13** (2013.01 - EP); **F25B 2600/0251** (2013.01 - EP); **F25B 2600/2501** (2013.01 - EP); **F25B 2700/1931** (2013.01 - EP); **F25B 2700/1933** (2013.01 - EP); **F25B 2700/2104** (2013.01 - EP); **F25B 2700/2106** (2013.01 - EP)

Citation (search report)  
• [IA] DE 102010026648 A1 20120112 - GEA GRASSO GMBH [DE]  
• [IA] WO 2012145156 A1 20121026 - CARRIER CORP [US], et al  
• See references of WO 2018139066A1

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)  
**EP 3575711 A1 20191204**; **EP 3575711 A4 20200101**; CN 110199161 A 20190903; JP 2018119777 A 20180802

DOCDB simple family (application)  
**EP 17894265 A 20171207**; CN 201780084431 A 20171207; JP 2017199593 A 20171013