

Title (en)  
REFRIGERATION CYCLE DEVICE

Title (de)  
KÄLTEKREISLAUFVORRICHTUNG

Title (fr)  
DISPOSITIF À CYCLE FRIGORIFIQUE

Publication  
**EP 3904787 A1 20211103 (EN)**

Application  
**EP 19906431 A 20190524**

Priority  
• JP 2018240670 A 20181225  
• JP 2019020680 W 20190524

Abstract (en)  
A channel switching device (2) included in a refrigeration cycle device includes a first communication channel (21) that connects between an inflow port (2a) and a first inflow/outflow port (2c), a second communication channel (22) that connects between the first inflow/outflow port (2c) and an outflow port (2b), a third communication channel (23) that connects between the outflow port (2b) and the second inflow/outflow port (2d), a fourth communication channel (24) that connects between the second inflow/outflow channel (2d) and inflow port (2a), and first to fourth electromagnetic on-off valves (SV1 to SV4) disposed in the first to fourth communication channels (21 to 24) respectively to open/close the first to fourth communication channels (21 to 24) respectively.

IPC 8 full level  
**F25B 13/00** (2006.01); **F25B 49/02** (2006.01)

CPC (source: EP US)  
**F25B 13/00** (2013.01 - EP); **F25B 41/20** (2021.01 - EP US); **F25B 41/26** (2021.01 - EP US); **F25B 49/02** (2013.01 - EP); **F25B 2313/02791** (2013.01 - EP); **F25B 2313/0312** (2013.01 - EP); **F25B 2313/0313** (2013.01 - EP); **F25B 2313/0314** (2013.01 - EP); **F25B 2313/0315** (2013.01 - EP); **F25B 2700/133** (2013.01 - EP); **F25B 2700/135** (2013.01 - EP); **F25B 2700/1931** (2013.01 - EP); **F25B 2700/1933** (2013.01 - EP); **F25B 2700/195** (2013.01 - EP); **F25B 2700/197** (2013.01 - EP)

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 3904787 A1 20211103**; **EP 3904787 A4 20220126**; JP 6984046 B2 20211217; JP WO2020136938 A1 20210909; WO 2020136938 A1 20200702

DOCDB simple family (application)  
**EP 19906431 A 20190524**; JP 2019020680 W 20190524; JP 2020562313 A 20190524