

Title (en)  
REFRIGERATION CYCLE

Title (de)  
KÜHLKREISLAUF

Title (fr)  
CYCLE FRIGORIFIQUE

Publication  
**EP 2314955 A4 20111102 (EN)**

Application  
**EP 09770011 A 20090609**

Priority  
• JP 2009060488 W 20090609  
• JP 2008168961 A 20080627

Abstract (en)  
[origin: EP2314955A1] Provided is a refrigeration cycle wherein a compressor, a condenser, a depressurizing/expanding means and an evaporator are provided. The refrigeration cycle uses R1234 as a refrigerant, and has an oil separating means, which forcibly separates the refrigerant and oil one from the other, in a two-phase separation region wherein the refrigerant and the oil exist in a separated state without being dissolved with each other. The refrigerant and the oil can be forcibly separated suitably at a suitable position even when the refrigerant is changed to the new refrigerant R1234yf, and the refrigeration cycle can be operated at a high efficiency as a whole.

IPC 8 full level  
**F25B 1/00** (2006.01); **F25B 43/02** (2006.01)

CPC (source: EP US)  
**F25B 43/02** (2013.01 - EP US); **F25B 2400/02** (2013.01 - EP US); **F25B 2400/121** (2013.01 - EP US)

Citation (search report)  
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• [A] US 2006260340 A1 20061123 - BHATIA KANWAL [US], et al  
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Designated contracting state (EPC)  
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