

Title (en)  
Non-azeotropic mixed refrigerant cycle and refrigerator equipped therewith

Title (de)  
Nicht-azeotroper Mischkühlzyklus und Kühlschrank damit

Title (fr)  
Cycle de frigorigène mixte non azéotrope et réfrigérateur ainsi équipé

Publication  
**EP 2592366 A2 20130515 (EN)**

Application  
**EP 12190551 A 20121030**

Priority  
KR 20110115819 A 20111108

Abstract (en)  
A non-azeotropic mixed refrigerant cycle and a refrigerator equipped with the same are disclosed. The non-azeotropic mixed refrigerant cycle includes a first refrigerant tube (P1) to guide a refrigerant from a condenser (2) to a first evaporator (4), a second refrigerant tube (P2) to guide the refrigerant from the first evaporator to a second evaporator (5), a third refrigerant tube (P3) to guide the refrigerant from the second evaporator to a compressor (1). A downstream portion of the first refrigerant tube is arranged within the second refrigerant tube, to form a first heat exchanger (7) having a double tube structure. An upstream portion of the first refrigerant tube is arranged within the third refrigerant tube, to form a second heat exchanger (8) having a double tube structure.

IPC 8 full level  
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CPC (source: EP KR US)  
**F25B 1/00** (2013.01 - KR); **F25B 5/04** (2013.01 - EP KR US); **F25B 9/006** (2013.01 - EP US); **F25B 40/00** (2013.01 - EP US); **F25B 2500/18** (2013.01 - EP US)

Cited by  
EP2857778A1; EP3073210A1

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BA ME

DOCDB simple family (publication)  
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