

Title (en)  
REFRIGERATOR AND WORKING METHOD THEREOF

Title (de)  
KÜHLSCHRANK UND BETRIEBSVERFAHREN DAFÜR

Title (fr)  
RÉFRIGÉRATEUR ET SON PROCÉDÉ DE FONCTIONNEMENT

Publication  
**EP 2833089 A4 20151118 (EN)**

Application  
**EP 13767595 A 20130326**

Priority  
• JP 2012069008 A 20120326  
• CN 2013073215 W 20130326

Abstract (en)  
[origin: EP2833089A1] A refrigerator and a operating method thereof. Warm air is prevented from flowing into a storage chamber during defrosting or when cooling starts, heat transfer from a cooling chamber to the storage chamber is prevented, and the temperature rise in the storage chamber is constrained to a low level. A separator (40) is used to divide a part of an air supply passage (16), to form a space portion (14) in communication with a cooling chamber (13) through an air supply opening portion (13a). A first opening portion (19) freely opened and closed is disposed in a separating area between the space portion (14) and the divided air supply passage (16), and a second opening portion (20) freely opened and closed is disposed in a separating area between the space portion (14) and an air return passage (29) or the cooling chamber (13). In this manner, heat transfer from the cooling chamber (13) to storage chambers (4) to (6) can be decreased. In addition, by setting the first opening portion (19) in a closed state and setting the second opening portion (20) in an open state, a condenser (32) performs cooling and an air blower (30) supplies air. In this manner, the space portion (14) used as an air circulation path makes air in the space portion (14) and the cooling chamber (13) circulate and cooled, so as to adjust the temperature thereof.

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Citation (search report)  
• [XY] JP H10232079 A 19980902 - FUJITSU GENERAL LTD  
• [Y] WO 2005052474 A2 20050609 - LG ELECTRONICS INC [KR], et al  
• [Y] KR 20110128715 A 20111130 - HITACHI APPLIANCES INC [JP]  
• See references of WO 2013143449A1

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