

Title (en)  
REFRIGERATOR AND MULTIPATH AIR SUPPLY DEVICE FOR REFRIGERATOR

Title (de)  
KÜHLSCHRANK UND MEHRPFADIGE LUFTZUFÜHRVORRICHTUNG FÜR KÜHLSCHRANK

Title (fr)  
RÉFRIGÉRATEUR ET DISPOSITIF D'ALIMENTATION EN AIR PAR CIRCUITS MULTIPLES DESTINÉ AU RÉFRIGÉRATEUR

Publication  
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Application  
**EP 16893225 A 20160815**

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• CN 2016095265 W 20160815

Abstract (en)  
[origin: CN105758093A] The invention relates to a refrigerator and a branched air conveying device used for the refrigerator. The branched air conveying device used for the refrigerator comprises a shell body, an adjusting part, an air supplying device and a flow splitting device, wherein the shell body is provided with an air inlet and a plurality of air outlets; the adjusting part is used for completely shielding, partially shielding or completely exposing each air outlet in a controlled manner, so that an air outlet area of each of the plurality of air outlets is adjusted; the air supplying device is arranged in the shell body and is used for promoting airflow to flow through one or more of the plurality of air outlets to flow out of the shell body; and the flow splitting device is arranged in the shell body and is used for leading the airflow flowing out of the air supplying device so that the airflow which flows out of the air supplying device flows to each air outlet according to a pre-set ratio. Furthermore, the invention further provides the refrigerator with the branched air conveying device. With the adoption of the refrigerator and the branched air conveying device used for the refrigerator, provided by the invention, the air conveying ratio of different positions of more storage rooms or one storage room can be accurately realized, and the air conveying amount of the branched air conveying device is improved.

Abstract (de)  
The prevent invention relates to a refrigerator and a branching air supply device thereof. The branching air supply device comprises: a housing provided with an air inlet and a plurality of air outlets; a regulating component configured to completely shield, partially shield or completely expose each air outlet in a controllable manner to adjust respective air discharging areas of the plurality of air outlets; an air feeding device arranged in the housing and configured to prompt the air flow to flow into the housing from the air inlet and to flow out of the housing via one or more air outlets of the plurality of the air outlets; and an air distributing device arranged in the housing and configured to guide air flowing out of the air feeding device and to enable the air flowing out of the air feeding device to flow to each air outlet with a predetermined ratio. The refrigerator and the branching air supply device thereof provided by the invention can accurately realize an air supply ratio of a plurality of storage compartments or different places of one storage compartment, and the air supply amount of the branching air supply device is increased.

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Cited by  
CN113834262A; US11644229B2; US11994333B2

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