

Title (en)

Temperature control apparatus for use in a carbonator of a refrigerator

Title (de)

Kühlschrank ausgestattet mit einer Einheit zur Herstellung von kohlensäurehaltigem Wasser

Title (fr)

Réfrigérateur équipé avec unité de fabrication d'eau chargée de gaz carbonique

Publication

**EP 1580503 B1 20080903 (EN)**

Application

**EP 05006582 A 20050324**

Priority

- KR 20040020706 A 20040326
- KR 20040020708 A 20040326
- KR 20040020711 A 20040326

Abstract (en)

[origin: EP1580503A1] A temperature control apparatus for use in a carbonator (11) of a refrigerator includes a cover (30) overlaying the carbonator (11) in a recessed portion (20) of a refrigerator door (10); a temperature sensor (29) installed in the carbonator (11); a pair of valve devices (126a,126b) installed at an outlet opening (125) of an outlet path and an inlet opening (124) of an inlet path, respectively; and a controller (55). The temperature sensor (29) transmits a signal to the controller (55) when the temperature of the carbonator (11) is equal to or less than a predetermined value. Then the controls the pair of the valve devices (126a,126b) to open the outlet opening (125) and the inlet opening (124), so that warm air outside the refrigerator is introduced into the recessed portion (20) through the inlet path and the inlet opening (124) while air in the recessed portion (20) is discharged to the outside of the refrigerator through the outlet opening (125) and the outlet path.

IPC 8 full level

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CPC (source: EP)

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Cited by

NL2017940B1; WO2016024730A1; US10473385B2; US11413587B2; US11938453B2; WO2018106106A1

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