

Title (en)

A method for controlling a heating-up period of cooking oven

Title (de)

Verfahren zur Steuerung der Aufheizphase eines Backofens

Title (fr)

Procédé de contrôle de la période de chauffage d'un four de cuisson

Publication

**EP 2538142 A1 20121226 (EN)**

Application

**EP 11005092 A 20110622**

Priority

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Abstract (en)

The present invention relates to a method for controlling a heating-up period of an oven. The heating-up period of the oven comprises a number of subsequent duty cycles. Each duty cycle includes a first phase with an upper current (I U ) and an upper power (P U ) and a second phase with a lower current (I L ) and a lower power (P L ). The upper current (I U ) and/or the upper power (P U ) exceeds a maximum allowed current or power, respectively, during the first phase of the duty cycle. The lower current (I L ) and/or the lower power (P L ) goes below the maximum allowed current or power, respectively, during the second phase of the duty cycle. An average current (I A ) and/or an average power (P A ) goes below or equals the maximum allowed current or power, respectively, during the duty cycle. The time (T U ) of the first phase of the duty cycle is shorter than the time (T L ) of the second phase of said duty cycle. Further, the present invention relates to a system for controlling a heating-up period of an oven. Moreover, the present invention relates to a corresponding oven.

IPC 8 full level

**F24C 7/08** (2006.01)

CPC (source: EP)

**F24C 7/08** (2013.01); **F24C 7/087** (2013.01)

Citation (search report)

- [X] EP 0645942 A2 19950329 - GOLD STAR CO [KR]
- [X] GB 2204427 A 19881109 - SHARP KK
- [I] EP 2065648 A1 20090603 - ELECTROLUX HOME PROD CORP [BE]
- [A] EP 1160578 A1 20011205 - LUCENT TECHNOLOGIES INC [US]
- [A] EP 0279514 A1 19880824 - MATSUSHITA ELECTRIC IND CO LTD [JP]
- [A] EP 1213542 A2 20020612 - ELECTROLUX AB [SE]

Cited by

CN113985945A; ES2671882A1

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