Title (en)

Method, apparatus and computer program product for controlling a heat source associated with heat inertia

Title (de)

Verfahren, Vorrichtung und Computerprogrammprodukt zur Steuerung einer mit Wärmeträgheit assoziierten Wärmequelle

Title (fr)

Procédé, appareil et produit de programme informatique pour commander une source de chaleur associée à de l'inertie thermique

Publication

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Application

EP 13198275 A 20131219

Priority

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Abstract (en)

The invention presents a method, apparatus or kitchen hob (300) and a computer program product (370) to improve temperature control of a heat source (310, ..., 330), taking heat inertia of the heat source and a total thermal system of masses associated to a heating process in e.g. a kitchen hob into account. The invention takes care of the heat inertia present in the heat source and a total thermal system of masses associated to a heating process and correspondingly provides a transition phase (255) between a higher temperature level and a lower temperature level, wherein the power supplied to the heat source is controlled differently. In particular, in pulse-width control sub-phases with ascending power phases over time are provided after e.g. preferably a break when transiting from a higher power level to a lower power level. In this manner, temperature overshooting can be avoided, energy can be saved and a consumer using a kitchen hob does not have to frequently adjust the power level, because this is automatically effected according to the present invention.

IPC 8 full level

H05B 1/02 (2006.01)

CPC (source: EP)

H05B 1/0263 (2013.01); **H05B 1/0266** (2013.01)

Citation (applicant)

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Designated contracting state (EPC)

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