Title (en)
METHOD FOR CONTROLLING A COOKING PROCESS

Title (de)
VERFAHREN ZUR REGELUNG EINES GARPROZESSES

Title (fr)
PROCÉDÉ DE RÉGULATION D'UN PROCESSUS DE CUISSON

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Application
EP 14719295 A 20140422

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Abstract (en)
[origin: WO2014173897A1] The invention relates to a method for controlling a cooking process using an item of cookware with induction properties on a burner (2), wherein a coil (3) is provided as part of an LC resonant circuit (4) in the region of the burner (2) and the natural frequency of the LC resonant circuit (4) is repeatedly or continuously measured, said method having the following steps: A) alternately heating the burner (2) with at least two different target outputs, wherein, during this process, the temperature at the bottom of the item of cookware is repeatedly or continuously measured by means of a temperature sensor (14) and the frequency of the LC resonant circuit (4) is repeatedly or continuously measured; B) determining a parameter function or vector function from the measured temporal temperature curve of the temperature sensor (14) and from the frequency of the LC resonant circuit (4) as a function of time and depending on the at least two target outputs; and C) carrying out the cooking process depending on the parameter function or vector function determined in method step B) and the frequency of the LC resonant circuit (4) and/ or the temporal change in the frequency of the LC resonant circuit (4). The invention also relates to a cooking appliance (1) having at least one burner (2), in particular at least one induction cooking zone, a temperature sensor, a power divider, an LC resonant circuit (4) having a coil (3) that is arranged in, around or in the vicinity of the burner (2) and a control unit (5) that is connected to the temperature sensor and a device for measuring the frequency of the LC resonant circuit (4) and is programmed for carrying out such a method, the control unit (5) having access to a memory for storing the computationally determined parameter function or vector function.

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