Title (en)

METHOD FOR DETERMINING A TEMPERATURE

Title (de)

VERFAHREN ZUR TEMPERATURBESTIMMUNG

Title (fr)

PROCEDE DE DETERMINATION DE TEMPERATURE

Publication

EP 3136822 B1 20200429 (DE)

Application

EP 16184674 A 20160818

Priority

DE 102015216455 A 20150827

Abstract (en)

[origin: US2017064776A1] In order to determine the temperature of boiling water in an induction hob including a plurality of induction heating coils which can be individually driven and which, in a common heating mode, form a cooking point for a cooking vessel containing water, a cooking vessel containing water is positioned over at least two induction heating coils. The induction heating coils are operated in the heating mode in order to bring the water in the cooking vessel to boil and each induction heating coil heats that region of the cooking vessel base which is arranged above it. During the heating mode, the oscillation response at each induction heating coil is used to detect whether the temperature of the region of the cooking vessel base above this induction heating coil increases. The induction heating coils are operated in the heating mode at least until one induction heating coil detects that the temperature gradient of the cooking vessel base above the induction heating coil has reached zero. The induction heating coil is then determined to be a measuring coil and is operated in the measuring mode with a low measuring power and no longer in the heating mode. In the event that the time profile of the temperature gradient of the induction heating coil reaches zero, the water in the cooking vessel is determined to be boiling.

IPC 8 full level

H05B 6/06 (2006.01)

CPC (source: CN EP US)

H05B 6/06 (2013.01 - CN); **H05B 6/065** (2013.01 - EP US); **H05B 6/12** (2013.01 - CN); H05B 2213/03 (2013.01 - EP US); H05B 2213/07 (2013.01 - EP US)

Citation (examination)

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DOCDB simple family (publication)

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