

Title (en)
INDUCTION-HEATING COOKER AND CONTROL METHOD THEREFOR

Title (de)
INDUKTIONSERWÄRMUNGSKOCHER UND STEUERUNGSVERFAHREN DAFÜR

Title (fr)
CUISINIÈRE À CHAUFFAGE PAR INDUCTION ET SON PROCÉDÉ DE COMMANDE

Publication
EP 3331321 B1 20210714 (EN)

Application
EP 16832795 A 20160722

Priority

- JP 2015151378 A 20150731
- JP 2016071527 W 20160722

Abstract (en)
[origin: EP3331321A1] The induction-heating cooker (1) includes a drive unit (40) which supplies high-frequency current to an electromagnetic coil (100) for generating a magnetic field, and a detection unit (60) which detects load characteristics of a load placed on the electromagnetic coil (100) on the basis of electric characteristics regarding the drive unit (40). If the load is determined to be a heating target on the basis of a result of detection by the detection unit (60), the maximum output power value of the output range of the drive unit (40) is set in a first range and the electromagnetic coil (100) is operated as an induction heating coil. If the load is determined to be a power receiving subject, the maximum output power value of the output range of the drive unit (40) is set in a second range and the electromagnetic coil (100) is controlled as a power feed coil so as to supply power to the power receiving subject by electromagnetic induction. Thus, an appropriate amount of power can be efficiently supplied in accordance with the target load both when a heating target is inductively heated and when power is supplied to a power receiving subject.

IPC 8 full level
H05B 6/12 (2006.01); **H05B 6/06** (2006.01)

CPC (source: EP)
H05B 6/062 (2013.01); **H05B 2213/05** (2013.01)

Citation (examination)
EP 2645814 A1 20131002 - MITSUBISHI ELECTRIC CORP [JP], et al

Cited by
US2020281048A1; US11968765B2; EP3654733A1; US11175429B2

Designated contracting state (EPC)
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EP 3331321 A1 20180606; EP 3331321 A4 20190320; EP 3331321 B1 20210714; CN 107852784 A 20180327; CN 107852784 B 20201110; ES 2883583 T3 20211209; JP 6173623 B2 20170802; JP WO2017022516 A1 20170803; WO 2017022516 A1 20170209

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