Title (en)

Induction cooking apparatus with improved characteristics

Title (de)

Induktionskochvorrichtung mit verbesserten Merkmalen

Title (fr)

Dispositif de cuisson à induction possédant des caractéristiques améliorées

Publication

EP 1255421 A2 20021106 (EN)

Application

EP 02007362 A 20020408

Priority

IT MI20010910 A 20010503

Abstract (en)

An induction cooking apparatus (1), comprising an inductor element (10) driven by an inverter (7), which is in turn controlled by a control circuit (6), resonance capacitors (11) being connected in parallel to the inductor element (10); the apparatus further comprises a real-time control unit (5) suitable to detect the resonance current of a resonance circuit constituted by the inductor element (10) and by the resonance capacitors (11), and the phase current of the power supply line, in order to send, at each half-cycle of the fundamental wave, a driving signal for the control circuit in order to ensure a perfect resonance condition. <IMAGE>

IPC 1-7

H05B 6/06

IPC 8 full level

H05B 6/04 (2006.01); **H05B 6/06** (2006.01)

CPC (source: EP)

H05B 6/04 (2013.01); **H05B 6/062** (2013.01)

Citation (applicant)

IT 1000910 A

Cited by

CN103828483A; EP2059091A3; CN107920686A; EP3328249A4; EP2571331A1; CN103797894A; AU2012307521B2; US9572202B2; US9781775B2; WO2012125520A1; WO2013037791A1; WO2017019687A1; US8921747B2

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