

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

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

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)

EP 1255421 A2 20021106; EP 1255421 A3 20030924; IT MI20010910 A0 20010503; IT MI20010910 A1 20021103

DOCDB simple family (application)

EP 02007362 A 20020408; IT MI20010910 A 20010503