

Title (en)
Induction heating device

Title (de)
Induktionsheizvorrichtung

Title (fr)
Dispositif de chauffage à induction

Publication
EP 2506667 A2 20121003 (DE)

Application
EP 12158709 A 20120309

Priority
ES 201130479 A 20110329

Abstract (en)
The device (12a) has induction heating units (20a, 22a, 24a, 26a, 28a) in circular disk form and attached to a heating frequency unit (60a) i.e. electrical unit. A control unit (64a) i.e. electronic unit, operates two of the induction heating units in sections in operation mode. Two induction heating units form a common heating area (39a) and exhibit a common contact (94a). A resonance unit (50a) is directly connected with the common contact in operating condition. Switching elements (74a, 76a) e.g. relay, are arranged between the frequency unit and one of the heating units. The common contact is a contact point and directly connected to the induction units in any operating condition different from operating condition with defects. The heating area is an effective area of magnetic alternating fields. An independent claim is also included for a method for operating an induction heating device.

Abstract (de)
Die Erfindung geht aus von einer Induktionsheizvorrichtung, insbesondere einer Induktionskochfeldvorrichtung, mit zumindest einer Heizfrequenzeinheit (60a; 60b; 60c; 60d, 61d) und zumindest drei Induktionsheizeinheiten (20a, 22a, 24a, 26a, 28a; 20b, 22b, 24b, 26b, 28b; 20c, 22c, 24c, 26c; 20d, 22d, 24d, 26d), die der Heizfrequenzeinheit (60a; 60b; 60c; 60d, 61 d) zugeordnet sind. Um eine flexible Heizleistungszuordnung zu ermöglichen, wird vorgeschlagen, dass die Induktionsheizvorrichtung zumindest eine Steuereinheit (64a; 64b; 64c; 64d) aufweist, die zumindest dazu vorgesehen ist, in zumindest einem Betriebsmodus wenigstens zwei der Induktionsheizeinheiten (20a, 22a, 24a, 26a, 28a; 20b, 22b, 24b, 26b, 28b; 20c, 22c, 24c, 26c; 20d, 22d, 24d, 26d) abschnittsweise zu betreiben.

IPC 8 full level
H05B 6/06 (2006.01)

CPC (source: EP)
H05B 6/065 (2013.01)

Cited by
EP2744300A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
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