

Title (en)

Power supply device with inverter, in particular for an induction cooker

Title (de)

Vorrichtung zur Stromversorgung über einen Wechselrichter, insbesondere für ein Induktionskochgerät

Title (fr)

Dispositif d'alimentation à onduleur, notamment pour appareil de cuisson à induction

Publication

EP 2605614 A1 20130619 (FR)

Application

EP 12195871 A 20121206

Priority

FR 1161537 A 20111213

Abstract (en)

The device (20) has switching transistors i.e. insulated gate bipolar transistor (IGBT) switches (T1, T2), mounted in parallel and in series with an inductor unit (L1) and another inductor unit. The transistors are mounted in parallel with free wheel diodes (D1, D2). A same switching control signal is addressed to a gate (G) of the transistors. Collectors (C) of the transistors are connected to each other. The transistors are mounted on a printed circuit board, and the collectors are connected with each other by a conducting material track deposited on the printed circuit board. An independent claim is also included for an induction cooking appliance.

Abstract (fr)

Un dispositif d'alimentation à onduleur de moyens inducteurs (L1) intégrés à un circuit résonant, à topologie quasi-résonnante, comprend au moins deux transistors en commutation (T1, T2) montés en parallèle, les transistors en commutation (T1, T2) étant montés en série avec les moyens inducteurs (L1). Utilisation notamment dans un appareil de cuisson à induction.

IPC 8 full level

H05B 6/06 (2006.01)

CPC (source: EP)

H05B 6/062 (2013.01); **H05B 6/065** (2013.01)

Citation (applicant)

WO 2007042315 A1 20070419 - EGO ELEKTRO GERAETEBAU GMBH [DE], et al

Citation (search report)

- [XYI] US 4210792 A 19800701 - FUJITA TAKASHI [JP], et al
- [IY] EP 2200398 A1 20100623 - FAGORBRANDT SAS [FR]
- [AD] WO 2007042315 A1 20070419 - EGO ELEKTRO GERAETEBAU GMBH [DE], et al
- [A] WO 2005043737 A2 20050512 - BSH BOSCH SIEMENS HAUSGERAETE [DE], et al
- [A] WO 2006092179 A1 20060908 - BSH BOSCH SIEMENS HAUSGERAETE [DE], et al

Cited by

EP3419382A1

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)

EP 2605614 A1 20130619; EP 2605614 B1 20171004; ES 2645225 T3 20171204; FR 2984038 A1 20130614; FR 2984038 B1 20180921

DOCDB simple family (application)

EP 12195871 A 20121206; ES 12195871 T 20121206; FR 1161537 A 20111213