

Title (en)

Method and device for determining the instant power output by induction means associated with a container to be heated

Title (de)

Verfahren und Vorrichtung zur Bestimmung der sofort gelieferten Leistung von Induktionsmitteln, die mit einem Heizbehälter verbunden sind

Title (fr)

Procédé et dispositif de détermination de la puissance instantanée délivrée par des moyens d'induction associés à un récipient à chauffer

Publication

EP 2341758 B1 20120905 (FR)

Application

EP 10196434 A 20101222

Priority

FR 0959688 A 20091231

Abstract (en)

[origin: EP2341758A1] The method involves measuring peak current (It) circulating in an insulated gate bipolar transistor (IGBT) switch. Peak current (Id) circulating in a free wheel diode (D) is measured. Instantaneous power delivered by an induction unit associated with the container to be heated is determined by a bijective function associating the instantaneous power with a quadruple of values of the peak currents, cyclic ratio (delta) of the switch and control period (T). The peak current of the switch is equal to the current circulating in the switch at the end of a conduction period of the switch. An independent claim is also included for a device for determining instantaneous power delivered by an induction unit associated with a container to be heated, comprising a measurement unit.

IPC 8 full level

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