

## Title (en)

Method and device for controlling or regulating power of low ohmic heating resistors

## Title (de)

Verfahren und Anordnung zum Steuern oder Regeln der Leistung von niederohmigen Heizwiderständen

## Title (fr)

Procédé et dispositif pour commander ou régler la puissance de résistances de chauffage à basse résistance

## Publication

**EP 1126591 A3 20030205 (DE)**

## Application

**EP 01100929 A 20010117**

## Priority

DE 10002736 A 20000122

## Abstract (en)

[origin: EP1126591A2] The power regulation method uses an IGBT-module (10) and a choke coil (L) in series with the heating resistance (R), a capacitor (C) across the mains voltage rectifier (11) and a regulation device (16) supplied with the operating current and voltage for the current circuit of the heating resistance via a sensor device (14), for providing a control frequency for the IGBT-module. The output of the sensor device is supplied via a current limiter (18) to a driver (20) for controlling the IGBT-module. Also included are Independent claims for the following: (a) a power regulation device for a low-ohmic heating resistance; (b) an application of a power regulation device for metal, molybdenum silicide and silicon carbide heating resistance elements; (c) an application of a power regulation device for low-ohmic heating resistances for workpiece warming, paint drying, soldering, or a food cooking or clothes pressing appliance.

## IPC 1-7

**H02M 7/217**; **H02M 1/00**

## IPC 8 full level

**G05F 1/66** (2006.01)

## CPC (source: EP)

**G05F 1/66** (2013.01)

## Citation (search report)

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## Designated contracting state (EPC)

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## DOCDB simple family (publication)

**EP 1126591 A2 20010822**; **EP 1126591 A3 20030205**; **EP 1126591 B1 20051207**; AT E312429 T1 20051215; DE 10102124 A1 20010726; DE 50108270 D1 20060112; ES 2253286 T3 20060601; SI 1126591 T1 20060630

## DOCDB simple family (application)

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