

Title (en)

RESONANCE CONVERTER AND METHOD FOR DRIVING VARIABLE LOADS

Title (de)

RESONANZKONVERTER UND VERFAHREN ZUM TREIBEN VON VERÄNDERLICHEN LASTEN

Title (fr)

CONVERTISSEUR A RESONANCE ET PROCEDE POUR ALIMENTER DES CHARGES VARIABLES

Publication

**EP 1573891 B1 20071107 (DE)**

Application

**EP 03782433 A 20031217**

Priority

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Abstract (en)

[origin: WO2004055961A2] The invention relates to a resonance converter for driving variable loads, wherein an input signal which is supplied by a switch (103) which is controlled by a control device (109) is initially converted into an output signal by a transformer (105). The dimensions and circuitry of the transformer (105) are such that the transformation ratio between the input signal and output signal ranges from 1.5:1 to 5:1 when nominal power is supplied to the variable load (107). The switching frequency of the switch (103) is controlled on the basis of phase displacement between the switch current and the load current for a modifiable load and/or variable input voltage. The inventive resonance converter enables variable loads to be driven efficiently with the aid of a transformer.

IPC 8 full level

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**WO 2004055961 A2 20040701**; **WO 2004055961 A3 20041209**; CN 100468941 C 20090311; CN 1726633 A 20060125; DE 10259069 A1 20040722; DE 10259069 B4 20070125; DE 50308562 D1 20071220; EP 1573891 A2 20050914; EP 1573891 B1 20071107

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