

Title (en)

CONTROL DEVICE FOR THE VOLTAGE-ABSENT SWITCHING OF A SWITCHING ELEMENT OF A VOLTAGE CONVERTER

Title (de)

STEUERVORRICHTUNG ZUM SPANNUNGSFREIEN SCHALTEN EINES SCHALTELEMENTS EINES SPANNUNGSWANDLERS

Title (fr)

DISPOSITIF DE COMMANDE PERMETTANT LA COMMUTATION SANS TENSION D'UN ÉLÉMENT DE COMMUTATION D'UN TRANSFORMATEUR DE TENSION

Publication

**EP 2425525 A1 20120307 (DE)**

Application

**EP 10714885 A 20100422**

Priority

- EP 2010055360 W 20100422
- DE 102009019016 A 20090427

Abstract (en)

[origin: WO2010124987A1] The invention relates to a control device (28) for the voltage-absent switching of at least one switching element (18-24) of a voltage converter (10). A detection element (30) detects a resonance voltage between the switching element (18-24) and the transformer unit (14). A control unit (34) generates a control signal for the switching element (18-24) as a function of a value of the detected resonance voltage and outputs the control signal to the switching element (18-24). A ZVS path in the control unit switches the switching element at the right time. A bypass path ensures a continuous switching of the switching element if the resonance signal fails to be emitted.

IPC 8 full level

**H02M 3/335** (2006.01)

CPC (source: EP US)

**H02M 3/335** (2013.01 - EP US); **H02M 1/0058** (2021.05 - EP US); **Y02B 70/10** (2013.01 - EP US)

Citation (search report)

See references of WO 2010124987A1

Designated contracting state (EPC)

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 SE SI SK SM TR

DOCDB simple family (publication)

**WO 2010124987 A1 20101104**; EP 2425525 A1 20120307; US 2012044719 A1 20120223

DOCDB simple family (application)

**EP 2010055360 W 20100422**; EP 10714885 A 20100422; US 201013266329 A 20100422