

Title (en)

SHORT CIRCUIT CONTROL IN THE INDUCTANCE OF A VOLTAGE BOOST CONVERTER

Title (de)

STEUERUNG EINES KURZSCHLUSSES IN EINER INDUKTIVITÄT EINES AUFWAERTSWANDLERS

Title (fr)

GESTION DU COURT-CIRCUIT DANS UNE INDUCTANCE D UN CONVERTISS EUR ELEVATEUR DE TENSION

Publication

EP 1704634 A1 20060927 (FR)

Application

EP 04816609 A 20041230

Priority

- FR 2004050762 W 20041230
- FR 0351231 A 20031230

Abstract (en)

[origin: FR2864720A1] The circuit has a transistor switch (4) with a reverse input logic between an inductor (L) and a connection terminal of a load (3). A gate of the switch is coupled to a supply voltage of the inductor or to a voltage less than a source voltage (6) of the switch at the inductor side. A selection circuit selects the higher voltage between the supply voltages of the inductor and the switch. Independent claims are also included for the following: (A) a process for protecting a voltage-up converter (B) a voltage-up converter including a protection circuit.

IPC 8 full level

H02M 1/00 (2007.01); **H02M 1/32** (2007.01); **H02M 3/156** (2006.01)

CPC (source: EP US)

H02M 1/32 (2013.01 - EP US); **H02M 3/158** (2013.01 - EP US)

Citation (search report)

See references of WO 2005074109A1

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

FR 2864720 A1 20050701; FR 2864720 B1 20060609; EP 1704634 A1 20060927; JP 2007517490 A 20070628; US 2007035974 A1 20070215; US 7835119 B2 20101116; WO 2005074109 A1 20050811

DOCDB simple family (application)

FR 0351231 A 20031230; EP 04816609 A 20041230; FR 2004050762 W 20041230; JP 2006546294 A 20041230; US 48075406 A 20060630