

Title (en)
A SWITCHED CONVERTER

Title (de)
SCHALTWANDLER

Title (fr)
CONVERTISSEUR COMMUTÉ

Publication
EP 3908084 A1 20211110 (EN)

Application
EP 20173164 A 20200506

Priority
EP 20173164 A 20200506

Abstract (en)
The invention relates to a switched converter, supplied with a DC voltage originating from an AC voltage, preferably mains voltage. The switched converter comprises output terminals for supplying an LED load, a feed-back loop controller configured to generate an output signal setting a switching frequency of at least one switch of the converter for controlling a load current on a nominal value, based on a signal indicating the load current and supplied to the feedback loop controller and a feed-forward control, FFC, block, wherein a response time of the FFC block is faster than a response time of the feed-back loop controller. The FFC block is configured to analyze in time increments said load current sensing signal and/or the DC signal as to a ripple present in said signals and to add a ripple compensation signal to said output signal of the feed-back loop controller.

IPC 8 full level
H05B 45/39 (2020.01)

CPC (source: EP)
H05B 45/39 (2020.01)

Citation (search report)

- [I] US 2013169172 A1 20130704 - KESTERSON JOHN WILLIAM [US], et al
- [I] WO 2008112820 A2 20080918 - CIRRUS LOGIC INC [US]
- [I] US 2018092179 A1 20180329 - GUO YUE [CN], et al
- [I] US 2008012502 A1 20080117 - LYS IHOR A [US]
- [A] US 2008051942 A1 20080228 - SMITH JAMES F [US], et al

Cited by
EP4358647A1

Designated contracting state (EPC)
AL 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 RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 3908084 A1 20211110; EP 4129010 A1 20230208; WO 2021223998 A1 20211111

DOCDB simple family (application)
EP 20173164 A 20200506; EP 2021060151 W 20210420; EP 21718610 A 20210420