

Title (en)  
VOLTAGE CONVERTER HAVING OVERVOLTAGE PROTECTION

Title (de)  
SPANNUNGSWANDLER MIT ÜBERSPANNUNGSSCHUTZ

Title (fr)  
CONVERTISSEUR DE TENSION AYANT UNE PROTECTION CONTRE LES SURTENSIONS

Publication  
**EP 4183037 A1 20230524 (DE)**

Application  
**EP 21745971 A 20210715**

Priority  
• AT 506192020 A 20200716  
• EP 2021069783 W 20210715

Abstract (en)  
[origin: WO2022013367A1] In order to provide improved overvoltage protection for a voltage converter (2) for converting an input voltage (ue, Ue) into an output DC voltage (Ua), a first shut-off unit (11) is provided which is designed such that, when a first voltage threshold (Ux1) is reached or exceeded by the output DC voltage (Ua), it switches off at least one part of the voltage converter (2) in order to reduce the output DC voltage (Ua). A second shut-off unit (12) is also provided, which is designed to check whether an average value of the output DC voltage has reached or exceeded an average value threshold (Uxm), and when the average value threshold (Uxm) is reached or exceeded, it switches off at least one part of the voltage converter (2) in order to reduce the output DC voltage (Ua).

IPC 8 full level  
**H02M 3/156** (2006.01); **G06F 1/30** (2006.01); **H02M 1/00** (2006.01); **H02M 1/32** (2007.01); **H02M 3/157** (2006.01); **H02P 25/06** (2016.01)

CPC (source: EP US)  
**G06F 1/305** (2013.01 - EP); **H02H 3/05** (2013.01 - US); **H02H 3/202** (2013.01 - US); **H02M 1/0012** (2021.05 - EP); **H02M 1/0019** (2021.05 - EP); **H02M 1/32** (2013.01 - EP); **H02M 3/156** (2013.01 - EP); **H02M 3/157** (2013.01 - EP); **H02H 7/1203** (2013.01 - US)

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Designated extension state (EPC)  
BA ME

Designated validation state (EPC)  
KH MA MD TN

DOCDB simple family (publication)  
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