

Title (en)

DEVICE FOR VOLTAGE CONVERSION AND ELECTRICAL SYSTEM HAVING SAID DEVICE

Title (de)

VORRICHTUNG ZUR SPANNUNGSWANDLUNG SOWIE BORDNETZ MIT EINER GENANNTEN VORRICHTUNG

Title (fr)

DISPOSITIF DE CONVERSION DE TENSION AINSI QUE RÉSEAU DE BORD COMPRENANT UN TEL DISPOSITIF

Publication

**EP 2907230 A2 20150819 (DE)**

Application

**EP 13756179 A 20130904**

Priority

- DE 102012218543 A 20121011
- EP 2013068246 W 20130904

Abstract (en)

[origin: WO2014056661A2] The invention relates to a device (V) for voltage conversion having a first, transformerless direct voltage converter unit (GW1) having a first output potential connection (Pa1) and a second transformerless direct voltage converter unit (Gw2) having a second output potential connection (Pa2). The two direct voltage converter units (GW1, GW2) have a common input potential connection (Pe) and a common reference potential connection (Pb). The first direct voltage converter unit (GW1) generates, from the input voltage potential ( $\Phi_e$ ), a first output voltage potential ( $\Phi_{a1}$ ) on the first output potential connection (Pa1), which has a higher voltage potential value relative to the reference voltage potential ( $\Phi_b$ ). The second direct voltage converter unit (GW2) generates, from the input voltage potential ( $\Phi_e$ ), a second output voltage potential ( $\Phi_{a2}$ ) on the second output potential connection (Pa2), which has a lower voltage potential value relative to the reference voltage potential ( $\Phi_b$ ). The device can be cost-effectively produced and provides sufficient safety.

IPC 8 full level

**H02M 3/158** (2006.01)

CPC (source: EP US)

**H02M 3/158** (2013.01 - US); **H02M 3/1584** (2013.01 - EP US); **H02M 1/009** (2021.05 - EP US)

Citation (search report)

See references of WO 2014056661A2

Citation (examination)

US 2012112684 A1 20120510 - XU YANG [CN], et al

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)

**WO 2014056661 A2 20140417**; **WO 2014056661 A3 20140612**; CN 104685773 A 20150603; DE 102012218543 A1 20140417; EP 2907230 A2 20150819; JP 2015532577 A 20151109; US 2015349638 A1 20151203; US 9837900 B2 20171205

DOCDB simple family (application)

**EP 2013068246 W 20130904**; CN 201380053022 A 20130904; DE 102012218543 A 20121011; EP 13756179 A 20130904; JP 2015536033 A 20130904; US 201314435244 A 20130904