

Title (en)
ASSEMBLY FOR SWITCHING A RESISTOR

Title (de)
ANORDNUNG ZUM SCHALTEN EINES WIDERSTANDS

Title (fr)
SYSTÈME POUR COMMUTER UNE RÉSISTANCE

Publication
EP 3449688 B1 20200304 (DE)

Application
EP 17722409 A 20170428

Priority
• DE 102016108005 A 20160429
• EP 2017060297 W 20170428

Abstract (en)
[origin: WO2017186958A1] The invention relates to an assembly, comprising a heat-releasing first resistor (R1 to R4), a control device for switching the first resistor (R1 to R4), and a component, in particular a grounded component, that lies at a potential not directly related to a control voltage, in particular a housing or a chassis component (10), wherein the first resistor (R1 to R4) is arranged in close spatial proximity to the component, in particular housing (10), and has a first and a second connection, wherein the control device comprises a first switching device (M1) and a second switching device (M2), wherein the first switching device (M1), the first resistor (R1 to R4), and the second switching device (M2) are connected in series in the stated order and therefore form a series circuit, wherein a compensation device (20) is provided and is configured in such a way that, in the ON state of the first resistor (R1 to R4), a voltage is present between the first and the second connections, such that the first connection is at a first potential and the second connection is at a second potential, wherein, in the OFF state, the resistor (R1 to R4) is held at an intermediate potential, which lies between the first and the second potentials, in particular at, at least approximately, half of the supply voltage and/or wherein the control device is configured to control the first resistor with pulse-width modulation, wherein the first and the second switching devices are switched synchronously.

IPC 8 full level
H05B 1/02 (2006.01)

CPC (source: EP KR US)
H05B 1/0202 (2013.01 - KR US); **H05B 1/0236** (2013.01 - EP KR US); **H05B 2203/035** (2013.01 - KR US)

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

DOCDB simple family (publication)
WO 2017186958 A1 20171102; CN 109076645 A 20181221; CN 109076645 B 20210423; DE 102016108005 A1 20171102; EP 3449688 A1 20190306; EP 3449688 B1 20200304; JP 2019516224 A 20190613; JP 6820495 B2 20210127; KR 102145678 B1 20200818; KR 20180124124 A 20181120; US 11665782 B2 20230530; US 2021227631 A1 20210722

DOCDB simple family (application)
EP 2017060297 W 20170428; CN 201780026512 A 20170428; DE 102016108005 A 20160429; EP 17722409 A 20170428; JP 2018555223 A 20170428; KR 20187030978 A 20170428; US 201716095829 A 20170428