

Title (en)

HIGH VOLTAGE GENERATION CIRCUIT AND METHOD

Title (de)

HOCHSPANNUNGSERZEUGUNGSSCHALTUNG UND -VERFAHREN

Title (fr)

CIRCUIT ET PROCÉDÉ DE GÉNÉRATION DE HAUTE TENSION

Publication

**EP 3656045 A4 20210414 (EN)**

Application

**EP 18834510 A 20180709**

Priority

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- US 2018041242 W 20180709

Abstract (en)

[origin: WO2019018148A1] A high voltage generation circuit is disclosed, which includes a battery for providing a first direct current voltage, a first inductance connected in series with the battery, a power switch and a voltage multiplier. The power switch is configured for converting the first direct current voltage to a pulse voltage. The voltage multiplier is configured for multiplying the pulse voltage to a second direct current voltage. The second direct current voltage is higher than the first direct current voltage. The voltage multiplier includes super capacitors which are connected in series. A high voltage generation method is also disclosed.

IPC 8 full level

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CPC (source: CN EP)

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Citation (search report)

- [A] US 2013155742 A1 20130620 - LEE MING-WEI [TW], et al
- [A] DE 19548986 A1 19970703 - SIEMENS AG [DE]
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- [A] WO 2017014300 A1 20170126 - JAPAN CAPACITOR IND CO LTD [JP], et al
- [XI] "Energy Storage in the Emerging Era of Smart Grids", 22 September 2011, INTECH, ISBN: 978-953-30-7269-2, article MASATOSHI UNO: "Supercapacitor-Based Electrical Energy Storage System", XP055565845, DOI: 10.5772/18667
- See also references of WO 2019018148A1

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DOCDB simple family (publication)

**WO 2019018148 A1 20190124**; AR 112511 A1 20191106; CA 3070394 A1 20190124; CA 3070394 C 20221213; CN 109286310 A 20190129; CN 109286310 B 20210312; EP 3656045 A1 20200527; EP 3656045 A4 20210414

DOCDB simple family (application)

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