

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**

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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.

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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]  
• [A] DE 10221128 A1 20031204 - CONTI TEMIC MICROELECTRONIC [DE]  
• [A] WO 2017014300 A1 20170126 - JAPAN CAPACITOR IND CO LTD [JP], et al  
• [X] "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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**US 2018041242 W 20180709**; AR P180101985 A 20180717; CA 3070394 A 20180709; CN 201710590945 A 20170719; EP 18834510 A 20180709