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(19) **United States**(12) **Patent Application Publication** (10) **Pub. No.: US 2022/0360074 A1**
(43) **Pub. Date: Nov. 10, 2022**(54) **METHOD AND SYSTEM FOR DC VOLTAGE
SUPPLY OF PULSATING LOADS**(52) **U.S. Cl.**CPC **H02J 1/06** (2013.01); **H02J 7/345**
(2013.01); **H02J 2207/50** (2020.01)(71) Applicant: **SAAB AB**, Linköping (SE)(72) Inventors: **Valter NILSSON**, Hovås (SE);
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(SE); **Ola BÄÄTH**, Göteborg (SE)(21) Appl. No.: **17/621,390**(22) PCT Filed: **Jun. 28, 2019**(86) PCT No.: **PCT/SE2019/050639**

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The invention relates to a method and a system for providing current from a DC power supply to pulsed loads in an array. The array comprises at least two electronic units. Each electronic unit comprises a regulator connected to an energy storage, to a pulsed load and to a charge control unit. The charge control unit is arranged to control the supply of DC current to the pulsed load connected to the electronic unit. The method comprises: selecting a pulse load pattern for the pulsed loads, selecting a charge control sequence by a control system connected to the electronic units and the DC power supply, starting the selected charge control sequence, starting the pulse load pattern, providing DC current from the DC power supply to each electronic unit at different times according to the selected charge control sequence set by the charge control unit.

