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(54) **METHOD FOR GENERATING AN AC VOLTAGE, CIRCUIT ASSEMBLY AND POWER SUPPLY SYSTEM**

(52) **U.S. Cl.**

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(57)

ABSTRACT

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A method for generating an alternating voltage (u_1) by interconnecting a plurality of DC voltage sources (4), comprises at least the following method steps:

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detecting charge differences of the DC voltage sources (4);

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taking the detected charge differences into account during the interconnection of the DC voltage sources (4) to carry out a charge balancing;

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detecting temperature differences (ΔT) between the DC voltage sources (4); and

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taking the detected temperature differences (ΔT) into account during the interconnection of the DC voltage sources (4) to carry out a temperature equalization.

