

Title (en)

CIRCUIT ARRANGEMENT AND METHOD FOR SUPPLYING ELECTRIC POWER

Title (de)

SCHALTUNGSANORDNUNG UND VERFAHREN ZUR ELEKTRISCHEN VERSORGUNG

Title (fr)

ENSEMBLE CIRCUIT ET PROCÉDÉ D'ALIMENTATION ÉLECTRIQUE

Publication

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Application

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Abstract (en)

[origin: WO2023021156A1] The invention relates to a circuit arrangement (4) for supplying electric power to a primary consumer (M) by way of a first operating AC voltage (uP1), having a control device (8) and at least one first inverter (9) that has a first primary supply terminal (P1) and a second primary supply terminal (P2) between which the first operating AC voltage (uP1) is present. The first inverter (9) has a configurable first inverter module (10) and a configurable second inverter module (11) that is connected, at output, in series with the first inverter module (10), which inverter modules jointly provide the first operating AC voltage (uP1) and are able to be connected, at input, to in each case at least one DC voltage source (5) and are each connected to the control device (8) and configured to set amplitudes, phases and/or frequencies at output for providing the first operating AC voltage (uP1) in accordance with the specifications of the control device (8). Provision is made for the first inverter (9) to have a first secondary supply terminal (S1) that is arranged between the first inverter module (10) and the second inverter module (11), wherein the control device (8) is designed to configure the inverter modules (10, 11) of the first inverter (9) so as to give rise to a first secondary voltage (uS11, uS12) between the first secondary supply terminal (S1) and one of the primary supply terminals (P1, P2) of the first inverter (9) in order to supply power to an auxiliary consumer (3). A supply voltage (uDC1) is able to be generated by a rectifier (13) from the secondary voltages (uS11, uS12).

IPC 8 full level

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