

Title (en)

METHOD AND CIRCUIT FOR BALANCING VOLTAGES IN A DC NETWORK

Title (de)

VERFAHREN UND SCHALTUNG ZUM SYMMETRIEREN VON SPANNUNGEN IN EINEM DC-NETZ

Title (fr)

PROCÉDÉ ET CIRCUIT D'ÉQUILIBRAGE DE TENSIONS DANS UN RÉSEAU CC

Publication

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Application

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Abstract (en)

[origin: WO2022101426A1] The invention relates to a method for balancing voltages on a first and a second DC conductor (DC+, DC-) in a DC network (14) by means of a balancing unit (20, 30, 40, 50, 60) comprising: a first semiconductor switch (T1, T3, T5, T7, T9) and a second semiconductor switch (T2, T4, T6, T8, T12) which are connected in series between the first and the second DC conductor (DC+, DC-); and a connection to an earth potential (PE), said connection being located between the first semiconductor switch (T1, T3, T5, T7, T9) and the second semiconductor switch (T2, T4, T6, T8, T12). In the event of an imbalance in the voltages of the first DC conductor (DC+) with respect to the earth potential (PE) and of the second DC conductor (DC-) with respect to the earth potential (PE), an equalising current (IA) is generated between at least one of the DC conductors (DC+, DC-) and the earth potential (PE) by means of at least one of the semiconductor switches (T1, T2, T3, T4, T5, T6, T7, T8, T9, T12), the equalising current (IA) reducing the imbalance in the voltages of the first and second DC conductors (DC+, DC-) with respect to the earth potential (PE), the voltages of the DC conductors (DC+, DC-) being in particular balanced with respect to the earth potential (PE). The invention also relates to a balancing unit.

IPC 8 full level

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