Title (en)

METHOD AND DEVICE FOR IMPROVING THE QUALITY OF VOLTAGE OF A SECONDARY SUPPLY UNIT

Title (de)

VERFAHREN UND VORRICHTUNG ZUR VERBESSERUNG DER SPANNUNGSQUALITÄT EINES UNTERLAGERTEN NETZTEILES

Title (fr)

PROCEDE ET DISPOSITIF POUR AMELIORER LA QUALITE DE LA TENSION D'UNE PARTIE DE RESEAU SOUS-JACENTE

Publication

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Application

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Priority

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Abstract (en)

[origin: DE19737590C1] The invention relates to a method and a device for improving the quality of voltage of a secondary supply unit (16) by means of a compensation device (2) with a pulsed converter (4). Said pulsed converter is serial-linked into a transmission line (12) by means of a coupling transformer (10). According to the invention, positive- and negative-sequence deviations (uD,1+/-) are determined and are used to produce a basic transmission ratio space vector (üb). This space vector (b) is then used to generate control signals (S nu) for the pulsed converter (4), using the intermediate circuit voltage (Vdc) of said pulsed converter (4), so that a compensator voltage (uK) can be serial-linked into the transmission line (12). The invention hereby provides a means of generating a supply voltage (uN) of an ideal supply system (14) from a distorted supply voltage (uN) for a secondary supply unit (16).

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