

Title (en)

CIRCUIT ARRANGEMENT AND METHOD FOR OPERATING AT LEAST ONE LED

Title (de)

SCHALTUNGSAORDNUNG UND VERFAHREN ZUM BETREIBEN MINDESTENS EINER LED

Title (fr)

DISPOSITIF DE COMMUTATION ET PROCÉDÉ DE COMMANDE D'AU MOINS UNE DEL

Publication

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Application

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Abstract (en)

[origin: CA2630901A1] Circuit arrangement and method for operating at least one LED. The present invention relates to a circuit arrangement for operating at least one LED, comprising: a first and a second mains connection (J) for connecting a mains voltage; a first rectifier (FR), whose rectifier input is coupled to the mains connections (J) and at whose rectifier output the rectified mains voltage can be provided; an electronic pump switch (UNI), which is coupled to the rectifier output, as a result of which a pump node (N1) is defined; a main energy store (STO), which is coupled to that side of the electronic pump switch (UNI) which faces away from the rectifier output; an inverter (INV), which is coupled to the main energy store (STO) in order to be supplied with energy from it, wherein the inverter (INV) is designed to provide an inverted voltage at its inverter output which has an inverter frequency; a pump network (PN), via which the inverter output is coupled to the pump node (N1); a matching network (MN), via which the inverter output is coupled to the connection terminals (J) for the at least one LED, wherein the matching network (MN) has a resonant circuit having a natural frequency. Moreover, the invention relates to a corresponding operating method for operating at least one LED.

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