

Title (en)

CIRCUIT ARRANGEMENT AND METHOD FOR OPERATING AT LEAST ONE LED

Title (de)

SCHALTUNGSANORDNUNG UND VERFAHREN ZUM BETREIBEN MINDESTENS EINER LED

Title (fr)

AGENCEMENT DE COMMUTATION ET PROCÉDÉ DE FONCTIONNEMENT D'AU MOINS UNE DIODE ÉLECTROLUMINESCENTE

Publication

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Application

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Abstract (en)

[origin: WO2010003448A1] The present invention relates to a circuit arrangement for operating at least one LED, having an operational amplifier (12) with a non-inverting input and an inverting input as well as an output; a desired value predefining apparatus (10) which is coupled to the non-inverting input of the operational amplifier (12); a first connection and a second connection for the at least one LED, wherein the first connection is coupled to a connection for a DC supply voltage (V+); a transistor (T1) which is coupled in series with the first and second connections for the at least one LED and can be operated in an analogue manner, wherein the transistor (T1) has a control electrode, a reference electrode and a working electrode, wherein the control electrode of the transistor is coupled to the output of the operational amplifier (12), wherein the working electrode of the transistor (T1) is coupled to the connection for a DC supply voltage (V+); and a current measuring resistor (RShunt) which is coupled in series between the reference electrode of the transistor (T1) and a reference potential, wherein the voltage dropped across the current measuring resistor is coupled to the inverting input of the operational amplifier (12); wherein at least one load (RV1) is coupled in parallel with the first and second connections for the at least one LED. The invention also relates to a corresponding method for operating at least one LED.

IPC 8 full level

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