

Title (en)

Voltage supply for Leds in lighting applications

Title (de)

Spannungsversorgung von LED's für Beleuchtungszwecke

Title (fr)

Alimentation en tension pour Leds dans le domaine de l' éclairage

Publication

**EP 1185147 B1 20031217 (DE)**

Application

**EP 01106716 A 20010316**

Priority

DE 10013216 A 20000317

Abstract (en)

[origin: DE10013216A1] The voltage supply has a constant current source with a transistor with control and output connections. A LED or LED arrangement is connected in series with an output connection. A control loop detects the voltage drop between the transistor output connections and/or between the output connection connected to the LED and the control connection and sets the supply voltage so the voltage drop corresponds to a value above the saturation voltage. The voltage supply has a constant current source (2) to which a supply voltage is applied and that contains a transistor (3) with a control connection and two output connections, whereby the light emitting diode (5) or LED arrangement is connected in series with a transistor output connection. A control loop (6) detects the voltage drop between the transistor output connections and/or between the output connection connected to the LED and the control connection and sets the supply voltage so that the voltage drop corresponds to a value above the transistor saturation voltage. Independent claims are also included for the following: an arrangement of light emitting diodes and a method of supplying voltage to a constant current source for at least one light emitting diode.

IPC 1-7

**H05B 33/08**

IPC 8 full level

**H05B 44/00** (2022.01)

CPC (source: EP US)

**H05B 45/20** (2020.01 - EP US); **H05B 45/37** (2020.01 - EP US)

Cited by

EP1503430A4; US7898188B2; US8421526B2; US7852016B2; WO2006097329A1

Designated contracting state (EPC)

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**EP 1185147 A1 20020306; EP 1185147 B1 20031217**; AT E256962 T1 20040115; DE 10013216 A1 20010920; DE 50101176 D1 20040129

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