Title (en)
   DRIVING APPARATUS FOR LED

Title (de)
   LED-BETRIEBSGERÄT

Title (fr)
   APPAREIL DE COMMANDE DE DEL

Publication
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Application
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Abstract (en)
   [origin: WO2012085118A1] In order to improve the efficiency in the operation of LED arrangements connected in series, an LED operating arrangement (1, 2, 3) is proposed, the LED arrangements (LEDi, i = 1...n) each having a first connection and a second connection, and the series circuit of the LED arrangements being connected to a supply voltage (VN), a bypass arrangement (20i, i = a...n-1) being associated with each of a plurality of LED arrangements (LEDi, i = 2...n) in such a way that a bypass connection of each bypass arrangement is connected to a connection of the LED arrangement, and furthermore each bypass arrangement has at least one gate (S, S2) and bypasses the associated LED arrangement (LEDi, i = 2...n) in an operating state. The LED operating arrangement according to the invention is characterized in that a gate (S) of each bypass arrangement (20i, i = a...n-1) is connected to an associated current sensor (100a...n-1), which is designed to detect a current flow through an LED arrangement (LEDi, i = 1...n-1) that is arranged adjacent to the LED arrangement (LEDi, i = 2...n) that is associated with each bypass arrangement (20i, i = a...n-1), wherein each bypass arrangement is furthermore designed as a controllable resistor. The invention further relates to a method for operating a plurality of LED arrangements arranged in series.

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