

Title (en)

CONTROL INTEGRATED CIRCUIT AND METHOD FOR CONTROLLING A CURRENT SOURCE CONFIGURED TO PROVIDE CURRENT TO LIGHTING MEANS, OPERATING DEVICE FOR LIGHTING MEANS, AND LUMINAIRE

Title (de)

INTEGRIERTE STEUERSCHALTUNG UND VERFAHREN ZUR STEUERUNG EINER STROMQUELLE, DIE ZUR BEREITSTELLUNG VON STROM AN LEUCHTMITTEL KONFIGURIERT IST, BEDIENUNGSVORRICHTUNG FÜR LEUCHTMITTEL UND LEUCHE

Title (fr)

CIRCUIT INTÉGRÉ DE COMMANDE ET PROCÉDÉ DE COMMANDE D'UNE SOURCE DE COURANT CONÇUE POUR FOURNIR DU COURANT À DES MOYENS D'ÉCLAIRAGE, DISPOSITIF DE COMMANDE POUR MOYENS D'ÉCLAIRAGE ET LUMINAIRE

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Application

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Priority

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Abstract (en)

The invention relates to control IC for controlling a current source configured to provide a current to lighting means optional at least one light emitting diode (LED). The control IC comprises a controller for controlling the current, a modulator for generating, based on an output of the controller, a periodically changing signal, wherein an amplitude of the signal periodically changes with a first frequency around an amplitude of the output of the controller, and a generator for generating, based on the periodically changing signal, a control signal for controlling the current source. The generator is configured to update the control signal according to a pulse signal having a second frequency greater than the first frequency. The generator is configured to provide the pulse signal to the modulator. The modulator is configured to update, based on the pulse signal, the amplitude of the signal so that the amplitude of the signal periodically changes in steps, with the first frequency, around the amplitude of the output of the controller.

IPC 8 full level

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CPC (source: EP)

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Citation (search report)

- [I] US 2014111110 A1 20140424 - QI XIN [US], et al
- [A] US 2015194097 A1 20150709 - MARIANO GIANLUCA [IT], et al
- [A] LINEAR TECHNOLOGY: "LT3761 Datasheet - 60VIN LED Controller with Internal PWM Generator", 17 August 2012 (2012-08-17), pages 1 - 28, XP055942340, Retrieved from the Internet <URL:https://web.archive.org/web/20130512083951if_/http://cds.linear.com:80/docs/en/datasheet/3761t.pdf> [retrieved on 20220713]

Designated contracting state (EPC)

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