

Title (en)

LED DIMMING CIRCUIT, DIMMING APPARATUS AND DIMMING METHOD FOR REDUCING HARMONIC DISTORTION

Title (de)

LED-DIMMERSCHALTUNG, DIMMVORRICHTUNG UND DIMMVERFAHREN ZUR REDUZIERUNG DER HARMONISCHEN VERZERRUNG

Title (fr)

CIRCUIT DE GRADATION DE DEL, APPAREIL DE GRADATION ET PROCÉDÉ DE GRADATION PERMETTANT DE RÉDUIRE UNE DISTORSION HARMONIQUE

Publication

EP 3790360 A4 20210602 (EN)

Application

EP 19793821 A 20190306

Priority

- CN 201810401233 A 20180428
- CN 2019077115 W 20190306

Abstract (en)

[origin: EP3790360A1] Disclosed in the present invention are an LED dimming circuit, dimming apparatus and dimming method for reducing harmonic distortion. The LED dimming circuit for reducing harmonic distortion comprises a voltage division module, a multipath selection module, a dimming decoding module, and a constant current source module. After a line voltage is divided by the voltage division module, corresponding amplitudes of voltage signals are output to the multipath selection module by different taps; the dimming decoding module performs decoding according to a received dimming input signal and outputs brightness data to the multipath selection module; the multipath selection module outputs, according to the brightness data, the voltage signals output from the corresponding taps of the voltage division module to the constant current source module; and the constant current source module controls, according to the currently received voltage signals, current passing through an LED light string. The present invention can meet the requirements of both dimming and low harmonic distortion, so that higher harmonics are not introduced while dimming is performed, thereby reducing power grid interference and improving the working stability of a product.

IPC 8 full level

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Citation (search report)

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- See also references of WO 2019205818A1

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