

Title (en)

BRIGHTNESS ADJUSTMENT METHOD FOR BACKLIGHT MODULE AND RELATED DEVICE

Title (de)

HELLIGKEITSANPASSUNGSVERFAHREN FÜR EIN HINTERGRUNDBELEUCHTUNGSMODUL UND ZUGEHÖRIGE VORRICHTUNG

Title (fr)

PROCÉDÉ DE RÉGLAGE DE LUMINOSITÉ POUR MODULE DE RÉTROÉCLAIRAGE ET DISPOSITIF ASSOCIÉ

Publication

EP 4310826 A1 20240124 (EN)

Application

EP 22791075 A 20220420

Priority

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- CN 2022087986 W 20220420

Abstract (en)

This application provides a method for adjusting brightness of a backlight module and a related apparatus. The brightness adjustment method includes: obtaining a brightness gray-scale value of a light emitting area corresponding to each channel; determining, based on the brightness gray-scale value corresponding to each channel and a preset threshold, a dimming mode corresponding to each channel; and determining, based on a correspondence between an operating current and a brightness gray-scale value of the channel in different dimming modes, an amplitude and a duty cycle of the operating current output by each channel. According to the brightness adjustment method in embodiments of this application, the current adjustment mode is used in a low gray scale, the duty cycle of the operating current remains unchanged, and brightness of the backlight module is adjusted by changing the amplitude of the operating current. In this way, impact of rise time and fall time of the operating current on a pulse waveform can be reduced, impact of a parasitic capacitance of a wiring can be reduced, and brightness linearity of the backlight module can be improved.

IPC 8 full level

G09G 3/34 (2006.01)

CPC (source: CN EP)

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Designated contracting state (EPC)

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