

Title (en)  
A HIGH-VOLTAGE NON-ISOLATED LED LAMP LOW LIGHT ELIMINATION DEVICE AND LED LAMP

Title (de)  
NICHTISOLIERTE HOCHSPANNUNGS-LED-LAMPE MIT VORRICHTUNG ZUR ELIMINIERUNG VON GERINGEM LICHT UND LED-LAMPE

Title (fr)  
DISPOSITIF D'ÉLIMINATION DE LUMIÈRE BASSE DE LAMPE À DEL NON ISOLÉE HAUTE TENSION ET LAMPE À DEL

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Application  
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Abstract (en)  
The invention discloses a high-voltage non-isolated LED lamp low light elimination device and an LED lamp. The high-voltage non-isolated LED lamp low light elimination device includes: a voltage conversion module , a dimming control module and a low light elimination module , wherein the voltage conversion module and The dimming control module is connected to convert high-voltage alternating current into direct current for power supply; the dimming control module is used to receive external control signals to control the on and off of the LED lamp; the low light elimination module , including a relay unit, is connected to the LED lamp between the positive electrode and the voltage conversion module , when the dimming control module controls the LED lamp to turn off, it also controls the relay unit to disconnect. The voltage to ground on the lamp board is close to zero, and the LED chip will not emit light. This solves the problem of high -voltage LED lamps "ghost light" phenomenon when turning off the lights and is low cost and effective .

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Citation (search report)  
• [XYI] WO 2021052475 A1 20210325 - SUZHOU OPPLÉ LIGHTING CO LTD [CN], et al  
• [XYI] US 2020163186 A1 20200521 - POOJARY VASU [NL], et al  
• [YA] US 2022240356 A1 20220728 - LEE BONGJIN [KR], et al  
• [Y] GB 2544165 A 20170510 - TIMEGUARD LTD [GB]

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