

Title (en)  
DRIVING CIRCUIT FOR AN LED

Title (de)  
TREIBERSCHALTUNG FÜR EINE LED

Title (fr)  
CIRCUIT DE PILOTAGE POUR UN DEL

Publication  
**EP 2425681 B1 20170719 (DE)**

Application  
**EP 10725007 A 20100402**

Priority  
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• AT 17692009 A 20091109

Abstract (en)  
[origin: WO2010112238A1] The invention relates to a drive circuit for an LED, comprising a connection for a supply voltage, a rectifier and a filter circuit, a buffer element, an inductor, and a switch, wherein the inductor becomes magnetized when the switch is closed, and the inductor becomes demagnetized when the switch is open, and, at least during the phase of demagnetization, the current feeds the LED through said inductor, wherein a current detector is contained between the rectifier and the buffer element, wherein at the output of the rectifier a bypass circuit is present, which is deactivated when the current detector allows the current to flow.

IPC 8 full level  
**H05B 44/00** (2022.01)

CPC (source: EP US)  
**H05B 45/3725** (2020.01 - EP US); **H05B 45/382** (2020.01 - EP US)

Citation (examination)  
• WO 2005115058 A1 20051201 - POLYBRITE INTERNATIONAL INC [US], et al  
• RAND D ET AL: "Issues, Models and Solutions for Triac Modulated Phase Dimming of LED Lamps", POWER ELECTRONICS SPECIALISTS CONFERENCE, 2007. PESC 2007. IEEE, IEEE, PISCATAWAY, NJ, USA, 17 June 2007 (2007-06-17), pages 1398 - 1404, XP031218489, ISBN: 978-1-4244-0654-8

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