

Title (en)  
BLEEDER CIRCUIT AND LED DRIVING CIRCUIT APPLYING THE SAME

Title (de)  
BLEEDERSCHALTUNG UND LED-ANSTEUERSCHALTUNG, DIE DIESEBLE ANWENDET

Title (fr)  
CIRCUIT DE FUITE ET CIRCUIT DE COMMANDE DE DEL L'UTILISANT

Publication  
**EP 3644691 A1 20200429 (EN)**

Application  
**EP 19202845 A 20191011**

Priority  
CN 201811241347 A 20181024

Abstract (en)  
A bleeder circuit and an LED driving circuit applying the same. A bleeder circuit is controlled to generate a bleeder current at a moment of a dimmer being switched on, such that the dimmer can be switched on quickly. In a case that a driving current in a control circuit is sufficient to keep the dimmer on, the bleeder circuit stops generating the bleeder current. Thereby, the bleeder current can be maintained for a certain period, reducing a power loss of the bleeder circuit and improving system efficiency.

IPC 8 full level  
**H05B 44/00** (2022.01); **H05B 45/3575** (2020.01)

CPC (source: CN EP)  
**H05B 45/10** (2020.01 - CN); **H05B 45/3575** (2020.01 - EP)

Citation (search report)

- [XY] US 2018139816 A1 20180517 - LIU GUOQIANG [CN], et al
- [X] EP 2373124 A1 20111005 - ROHM CO LTD [JP]
- [X] EP 2963999 A2 20160106 - POWER INTEGRATIONS INC [US]
- [Y] US 2018295685 A1 20181011 - WANG JIANXIN [CN], et al

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**EP 3644691 A1 20200429**; CN 109275230 A 20190125; CN 109275230 B 20201229

DOCDB simple family (application)  
**EP 19202845 A 20191011**; CN 201811241347 A 20181024