

Title (en)  
TWO-WAY TO MULTI-WAY LIGHT EMITTING DIODE CONTROL CIRCUITS AND METHODS FOR CONTROLLING LEDs

Title (de)  
ZWEIWEG-MEHRWEG-LEUCHTDIODENSTEUERSCHALTUNGEN UND VERFAHREN ZUR STEUERUNG VON LEUCHTDIODEN

Title (fr)  
CIRCUITS DE COMMANDE DE DIODE ÉLECTROLUMINESCENTE DEUX VOIES À MULTIPLES VOIES ET PROCÉDÉS DE COMMANDE DE DEL

Publication  
**EP 3945752 A1 20220202 (EN)**

Application  
**EP 20188490 A 20200730**

Priority  
EP 20188490 A 20200730

Abstract (en)  
Two-way to multi-way light emitting diodes (LED) control circuits and methods are provided for controlling LEDs. A two-way circuit comprises an integrated circuit having a first input-output (I/O) pin and a second I/O pin, two lines, two LEDs namely, a first LED and a second LED. A three-way circuit comprises an integrated circuit having three I/O pins (i.e. a first I/O pin, a second I/O pin, a third I/O pin), three lines and six LEDs. A three-way circuit comprises an integrated circuit having four I/O pins (i.e. a first I/O pin, a second I/O pin, a third I/O pin, a fourth I/O pin), four lines and twelve LEDs.

IPC 8 full level  
**H05B 45/42** (2020.01)

CPC (source: EP)  
**H05B 45/42** (2020.01)

Citation (search report)

- [I] DE 202020001098 U1 20200417 - SHENZHEN YIFENGYUAN TECH COMPANY LTD [CN]
- [I] US 10728994 B1 20200728 - YANG PING [CN]
- [A] US 10631386 B1 20200421 - MCRAE MICHAEL M [US]

Cited by  
DE102022122221B4

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BA ME

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