

Title (en)  
Electrical circuit and connection method

Title (de)  
Elektrische Schaltungsanordnung und Verbindungsverfahren

Title (fr)  
Circuit électrique et méthode de connexion

Publication  
**EP 1643183 A1 20060405 (EN)**

Application  
**EP 05256128 A 20050930**

Priority  
GB 0421772 A 20040930

Abstract (en)  
An electrical circuit is disclosed in which a constant current is passed through a plurality of sockets connected in series. Selected ones of a corresponding plurality of plugs are insertable into and removable from the sockets. The plugs are connected to LED light sources, and the sockets are arranged to form a short circuit when plugs are removed therefrom, thereby to allow remaining LEDs to be powered. The circuit may form part of a coloured lighting system.

IPC 8 full level  
**F21S 4/00** (2006.01); **H01R 24/02** (2006.01); **H01R 24/58** (2011.01)

CPC (source: EP US)  
**F21S 4/20** (2016.01 - EP); **H01R 24/58** (2013.01 - EP US); **F21V 23/06** (2013.01 - EP); **F21Y 2113/13** (2016.08 - EP US); **F21Y 2115/10** (2016.08 - EP US); **H01R 2103/00** (2013.01 - EP)

Citation (search report)

- [XY] WO 02089222 A1 20021107 - MORIYAMA SANGYO KK [JP], et al
- [Y] GB 283727 A 19280119 - IGRANIC ELECTRIC CO LTD, et al
- [Y] EP 1357330 A2 20031029 - LIN YUAN [AU]
- [A] US 5310355 A 19940510 - DANNATT IRMGARD [US]
- [PX] US 2004252501 A1 20041216 - MORIYAMA HIDEO [JP], et al

Cited by  
EP2511588A3

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)  
**EP 1643183 A1 20060405**; GB 0421772 D0 20041103

DOCDB simple family (application)  
**EP 05256128 A 20050930**; GB 0421772 A 20040930