

Title (en)  
Flashlight

Title (de)  
Taschenlampe

Title (fr)  
Lampe de poche

Publication  
**EP 1331436 A3 20060607 (DE)**

Application  
**EP 03001721 A 20030127**

Priority  
DE 20201267 U 20020129

Abstract (en)  
[origin: US2003174497A1] A flashlight having at least one shaft piece for enclosing at least one battery as the voltage supply, and having at least one flashlight head (2) enclosing a plurality of white LED's (14) as illuminants. The flashlight head is connected to the shaft piece (3), and has an electrical connector coupled to the illuminants, and a connector piece (17) for connection to the battery. The connector piece (17) corresponds substantially with a flashlight bulb socket, wherein the connector piece (17) having a coaxial ring electrode (21), disposed radially on the outer side and connected with the ground pole, and a pin electrode (20) disposed concentrically on the inner side for connection with the battery of the flashlight.

IPC 8 full level  
**F21L 4/02** (2006.01); **F21L 4/08** (2006.01); **F21V 5/00** (2018.01); **F21V 23/06** (2006.01)

CPC (source: EP US)  
**F21L 4/027** (2013.01 - EP US); **F21L 4/085** (2013.01 - EP US); **F21V 5/006** (2013.01 - EP US); **F21V 23/06** (2013.01 - EP US); **F21Y 2115/10** (2016.07 - EP US)

Citation (search report)  
• [Y] EP 1136746 A1 20010926 - LEONE ANTONIO [IT]  
• [Y] DE 3430540 A1 19860306 - BARLIAN REINHOLD [DE]  
• [A] US 6190020 B1 20010220 - HARTLEY FRED JACK [US]  
• [A] DE 20106835 U1 20010705 - VOGEL MEINOLPH [DE]  
• [A] US 6168288 B1 20010102 - ST CLAIRE CHRISTIAN P [US]  
• [A] DE 2506698 A1 19760826 - WITTE WALDEMAR  
• [A] EP 0135409 A1 19850327 - BLACK & DECKER INC [US]  
• [A] US 6196702 B1 20010306 - KRIETZMAN MARK HOWARD [US]

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

DOCDB simple family (publication)  
**US 2003174497 A1 20030918; US 6805461 B2 20041019**; AT E394632 T1 20080515; DE 20201267 U1 20020516; DE 50309757 D1 20080619; EP 1331436 A2 20030730; EP 1331436 A3 20060607; EP 1331436 B1 20080507; ES 2306818 T3 20081116; HK 1059300 A1 20040625

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**US 35311403 A 20030128**; AT 03001721 T 20030127; DE 20201267 U 20020129; DE 50309757 T 20030127; EP 03001721 A 20030127; ES 03001721 T 20030127; HK 04100673 A 20040130