

Title (en)
MODULAR LED-BASED LIGHTING APPARATUS FOR SOCKET ENGAGEMENT, LIGHTING FIXTURES INCORPORATING SAME, AND METHODS OF ASSEMBLING, INSTALLING AND REMOVING SAME

Title (de)
MODULARE BELEUCHTUNGSVORRICHTUNG AUF LED-BASIS FÜR BUCHSENEINGRIFF, DIESE ENTHALTENDE LEUCHTEN UND VERFAHREN ZUM MONTIEREN, INSTALLIEREN UND ENTFERNEN DERSELBEN

Title (fr)
APPAREIL D'ECLAIRAGE A DEL MODULAIRE POUR PRISE DE DOUILLE, DISPOSITIFS D'ECLAIRAGE LE RENFERMANT, ET SES PROCEDES DE MONTAGE, D'INSTALLATION ET D'ENLEVEMENT

Publication
EP 1893912 A4 20110504 (EN)

Application
EP 06771039 A 20060523

Priority
• US 2006020042 W 20060523
• US 68358705 P 20050523
• US 72987005 P 20051024
• US 75682106 P 20060106
• US 74535306 P 20060421

Abstract (en)
[origin: WO2006127785A2] Modular lighting fixtures that allow convenient installation and removal of LED-based light-generating modules and controller modules. In one example, a modular lighting fixture includes a housing configured to be recessed into or disposed behind an architectural surface such as ceiling, wall, or soffit, in new or existing construction scenarios. The fixture housing includes a socket configured to facilitate one or more of a mechanical, electrical and thermal coupling of the light-generating module to the fixture housing. The ability to easily engage and disengage the LED-based light-generating module with the socket, without removing the fixture housing itself, allows for straightforward replacement of the light-generating module upon failure, or exchange with another module having different light-generating characteristics. Modular lighting controllers for such fixtures also may be easily installed in or removed from the fixture housing via the same access route by which the light-generating module is installed and removed.

IPC 8 full level
F21S 8/00 (2006.01); **F21S 8/04** (2006.01); **F21S 8/06** (2006.01); **F21V 11/00** (2006.01); **F21V 17/06** (2006.01); **F21V 23/04** (2006.01); **F21V 29/00** (2006.01); **H05B 37/02** (2006.01)

CPC (source: EP KR US)
F21S 8/00 (2013.01 - KR); **F21S 8/04** (2013.01 - EP US); **F21V 11/00** (2013.01 - KR); **F21V 23/0442** (2013.01 - EP); **F21V 23/0457** (2013.01 - EP); **F21V 29/00** (2013.01 - KR); **F21V 29/507** (2015.01 - EP US); **F21V 29/67** (2015.01 - EP US); **F21V 29/76** (2015.01 - EP US); **F21V 29/773** (2015.01 - EP US); **F21V 29/83** (2015.01 - EP); **F21Y 2115/10** (2016.07 - EP US); **H05B 45/325** (2020.01 - EP US); **H05B 45/33** (2020.01 - EP US); **H05B 45/395** (2020.01 - EP US)

Citation (search report)
• [X] US 2002175641 A1 20021128 - ANDERSEN BO LUNDAGER [US]
• [I] US 2002043938 A1 20020418 - LYS IHOR A [US]
• [A] US 6552495 B1 20030422 - CHANG CHIN [US]
• [A] US 2004223331 A1 20041111 - KAO TE-SHU [TW]
• See references of WO 2006127785A2

Cited by
CN112914348A

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)
WO 2006127785 A2 20061130; **WO 2006127785 A3 20061228**; AU 2006249979 A1 20061130; AU 2006249979 B2 20110825; CA 2609531 A1 20061130; CA 2609531 C 20140902; EP 1893912 A2 20080305; EP 1893912 A4 20110504; EP 1893912 B1 20201216; ES 2855400 T3 20210923; JP 2008543000 A 20081127; JP 2012094545 A 20120517; JP 5785503 B2 20150930; JP 5850597 B2 20160203; KR 101343562 B1 20131223; KR 20080039847 A 20080507

DOCDB simple family (application)
US 2006020042 W 20060523; AU 2006249979 A 20060523; CA 2609531 A 20060523; EP 06771039 A 20060523; ES 06771039 T 20060523; JP 2008513654 A 20060523; JP 2012020810 A 20120202; KR 20077029980 A 20071221