

Title (en)

ELECTRICAL CONNECTOR ASSEMBLY FOR A LIGHTING UNIT

Title (de)

ELEKTRISCHE STECKVERBINDERANORDNUNG FÜR EINE BELEUCHTUNGSEINHEIT

Title (fr)

ENSEMBLE DE CONNECTEUR ÉLECTRIQUE POUR UNITÉ D'ÉCLAIRAGE

Publication

EP 3648256 A1 20200506 (EN)

Application

EP 19203361 A 20191015

Priority

GB 201817947 A 20181102

Abstract (en)

An electrical connector assembly (1) arranged for electrically connecting together at least one supply side electrical power cable (302) and a device electrical power cable (202). The electrical connector assembly (1) includes: a first connector (3) arranged for electrical attachment to one of the first and device power cables (302,202), said first connector (3) including a set of first electrical connectors (7); and a second connector (5) arranged for electrical attachment to the other of the first and device power cable s (302,202), said second connector (5) including a set of second electrical connectors (55); the sets of first and second electrical connectors (7,55) are arranged for mating engagement to form an electrical connection between the first and device power cables (302,202) and for disengagement to break the electrical connection; wherein the set of first electrical connectors (7) is moulded into a plastics support member (13), thereby embedding at least part of each first electrical connector (7) within the plastic support member (13). A lighting unit (200) and lighting system (100) that include electrical connector assembly, and a method for manufacturing the first connector (3), are also disclosed.

IPC 8 full level

H01R 9/24 (2006.01); **H01R 13/405** (2006.01); **F21V 23/06** (2006.01); **H01R 4/48** (2006.01)

CPC (source: EP GB US)

H01R 4/484 (2023.08 - EP GB US); **H01R 9/2491** (2013.01 - EP GB); **H01R 13/405** (2013.01 - EP GB); **H01R 13/502** (2013.01 - GB); **H01R 43/24** (2013.01 - EP); **F21V 23/06** (2013.01 - EP GB); **H01R 4/4821** (2023.08 - EP GB US); **H01R 4/483** (2023.08 - EP GB US); **H01R 4/4837** (2023.08 - EP GB US); **H01R 4/485** (2023.08 - EP GB US); **H01R 24/22** (2013.01 - EP GB)

Citation (search report)

- [X] US 2018269602 A1 20180920 - OTTO DAVID [ZA]
- [I] CN 108468989 A 20180831 - HUANG SHIMING

Cited by

WO2022083515A1

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)

GB 201817947 D0 20181219; **GB 2576385 A 20200219**; **GB 2576385 A9 20200701**; **GB 2576385 B 20200930**; EP 3648256 A1 20200506; EP 3648256 B1 20210721; ES 2882294 T3 20211201

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