

Title (en)
WORK LIGHT

Title (de)
ARBEITSLICHT

Title (fr)
BALADEUSE

Publication
EP 2021682 A1 20090211 (EN)

Application
EP 07719726 A 20070504

Priority

- CA 2007000802 W 20070504
- US 79748006 P 20060504
- US 81533606 P 20060621
- US 81842606 P 20060703
- US 84364706 P 20060911
- US 85535706 P 20061030

Abstract (en)
[origin: WO2007128126A1] An LED work light has multichip LEDs and a diffusing dome. Each LED may have separate electrical terminals for each chip. The LED work light may have convex lenses forward of each LED. Convex lenses may be hemispherical. Convex lenses may have a nonhemispheric curved surface whose cross section has at least one circular arc and no non-circular arcs. The LED work light has a battery or receives power from an external power source. The LED work light may have a transparent plastic tube as a structural member. A replaceable plastic cover may be added to protect any structural tube or other major transparent part of the LED work light from abrasions. The plastic cover may be tubular. The plastic cover may comprise laminations of plastic that can be removed individually after being abraded. Any external power source may be a wall transformer type and may have current limiting means. The LEDs may be attached to the rear surface of an LED PCB that is fastened to a heatsink in a manner achieving thermal contact between the rear surfaces of the LEDs and the heatsink. A position sensing switch may be used.

IPC 8 full level
F21L 14/00 (2006.01); **F21L 4/00** (2006.01); **F21L 14/02** (2006.01); **F21V 3/04** (2006.01); **F21V 5/04** (2006.01); **F21V 15/00** (2006.01); **F21V 21/08** (2006.01); **F21V 21/096** (2006.01); **F21V 23/00** (2006.01); **F21V 25/12** (2006.01); **F21V 29/00** (2006.01); **H01L 23/36** (2006.01); **F21Y 101/02** (2006.01)

CPC (source: EP US)
F21L 4/00 (2013.01 - EP); **F21L 14/02** (2013.01 - EP US); **F21V 3/062** (2018.01 - EP); **F21V 5/04** (2013.01 - EP US); **F21V 15/00** (2013.01 - EP); **F21V 21/08** (2013.01 - EP); **F21V 21/0965** (2013.01 - EP); **F21V 23/00** (2013.01 - EP); **F21V 25/12** (2013.01 - EP); **F21V 29/70** (2015.01 - EP); **F21Y 2115/10** (2016.07 - EP US); **H01L 2924/0002** (2013.01 - EP)

Cited by
US10753553B2

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 MT NL PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA HR MK RS

DOCDB simple family (publication)
WO 2007128126 A1 20071115; **WO 2007128126 A9 20080214**; CA 2652218 A1 20071115; CA 2652218 C 20131105; EP 2021682 A1 20090211; EP 2021682 A4 20130313; EP 2021682 B1 20140820; EP 2808597 A2 20141203; EP 2808597 A3 20150128; EP 2808597 B1 20171004

DOCDB simple family (application)
CA 2007000802 W 20070504; CA 2652218 A 20070504; EP 07719726 A 20070504; EP 14175384 A 20070504