

Title (en)
LUMINAIRE WITH A COMPOUND PARABOLIC REFLECTOR

Title (de)
LEUCHTE MIT EINEM VERBUND-PARABOLREFLEKTOR

Title (fr)
LUMINAIRE AVEC RÉFLECTEUR PARABOLIQUE COMPOSITE

Publication
EP 2147247 A4 20110330 (EN)

Application
EP 07795212 A 20070523

Priority
US 2007012256 W 20070523

Abstract (en)
[origin: WO2008150254A1] Luminaires (10) for illuminating a target zone (13) having target zone subregions in front of and to the sides of the luminaire. The luminaire includes a housing (17), a lamp holder (13) in the housing positioned to support an electric lamp (19) in a generally vertical orientation, and a compound parabolic reflector (11) in the housing partially surrounding a lamp light-emitting segment (47) location having plural regions (51, 53, 55). Preferred forms of the compound parabolic reflector include segmented center (59) and side portions (61, 63). The preferred segmented center portion has a first plurality of two-dimensional parabolic segments (73, 75, 77) each of which has a focal point (79, 81, 83) in a different one of the plural light-emitting segment location regions. The preferred segmented side portions are each provided with a second plurality of two-dimensional parabolic segments (101-131) having focal points (138) along the light-emitting segment location. The parabolic segments are effective to direct a preponderance of light toward the target zone subregions.

IPC 8 full level
F21V 7/04 (2006.01); **F21V 7/09** (2006.01); **F21W 131/103** (2006.01); **F21W 131/105** (2006.01)

CPC (source: EP)
F21S 8/086 (2013.01); **F21V 7/04** (2013.01); **F21V 7/09** (2013.01); **F21W 2131/103** (2013.01); **F21W 2131/105** (2013.01)

Citation (search report)

- [XA] GB 478261 A 19380117 - HERBERT BIGGLESTON, et al
- [A] DE 679203 C 19390731 - ZEISS IKON A G GOERZ WERK
- [A] FR 2452665 A1 19801024 - GTE PROD CORP [US]
- [A] US 4358816 A 19821109 - SOILEAU TRASIMOND A
- [A] US 6338564 B1 20020115 - JORDAN DAVID L [US], et al
- See references of WO 2008150254A1

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

DOCDB simple family (publication)
WO 2008150254 A1 20081211; AU 2007354673 A1 20081211; AU 2007354673 B2 20130502; CA 2688071 A1 20081211;
CA 2688071 C 20140422; EP 2147247 A1 20100127; EP 2147247 A4 20110330; EP 2147247 B1 20121107; ES 2394370 T3 20130131

DOCDB simple family (application)
US 2007012256 W 20070523; AU 2007354673 A 20070523; CA 2688071 A 20070523; EP 07795212 A 20070523; ES 07795212 T 20070523