

Title (en)  
REFLECTOR FOR LIGHTING SOURCE AND LIGHTING DEVICE COMPRISING THE SAME

Title (de)  
REFLEKTOR FÜR BELEUCHTUNGSQUELLE UND BELEUCHTVORRICHTUNG DAMIT

Title (fr)  
RÉFLECTEUR POUR LA SOURCE LUMINEUSE ET DISPOSITIF D'ÉCLAIRAGE LE COMPRENANT

Publication  
**EP 3312502 B1 20201111 (EN)**

Application  
**EP 17275096 A 20170703**

Priority  
CN 201610906236 A 20161018

Abstract (en)  
[origin: EP3312502A1] The present invention provides a reflector (100, 400) intended for lighting source comprising a reflector body (110) having reflective side walls (130A, 130B, 130C, 130D, 430A, 430B, 430C, 430D), a top opening (120, 420) and a bottom opening (140, 440). An inner surface of the side wall (130A, 130B, 130C, 130D, 430A, 430B, 430C, 430D) is configured to be a light-reflective parabolic surface (432), a parabola of the light-reflective parabolic surface (432) having two end points and a parabola vertex, the parabola vertex being closer to the top opening (120, 420) with respect to the bottom opening (140, 440), a height between a connection line connecting the two end points of the parabola and the parabola vertex being a height H of the parabola. A ratio  $h/L$  of a height h of the side walls (130A, 130B, 130C, 130D, 430A, 430B, 430C, 430D) to a length L of the bottom opening (140, 440) is between 0.4 and 0.7, a ratio  $h/H$  of the height h of the side walls (130A, 130B, 130C, 130D, 430A, 430B, 430C, 430D) to the height H of the parabola is between 0.55 and 0.75, and a ratio  $h/l$  of the height h of the side walls (130A, 130B, 130C, 130D, 430A, 430B, 430C, 430D) to a length l of the top opening (120, 420) is between 0.3 and 0.55. The present invention also provides a lighting device (500) comprising the above reflector (100, 400), which is able to reduce the Unified Glaring Rating (UGR) while maintaining high luminous efficiency.

IPC 8 full level  
**F21V 7/00** (2006.01); **F21V 7/06** (2006.01)

CPC (source: CN EP)  
**F21V 7/0083** (2013.01 - EP); **F21V 7/06** (2013.01 - EP); **F21V 7/09** (2013.01 - EP); **F21V 7/22** (2013.01 - CN); **F21V 17/14** (2013.01 - CN); **F21V 19/002** (2013.01 - CN); **F21V 29/503** (2015.01 - CN); **F21Y 2103/00** (2013.01 - EP); **F21Y 2115/10** (2016.07 - EP)

Cited by  
EP3611428A4; EP3366993A1; AT17250U1

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

DOCDB simple family (publication)  
**EP 3312502 A1 20180425**; **EP 3312502 B1 20201111**; CN 107965680 A 20180427

DOCDB simple family (application)  
**EP 17275096 A 20170703**; CN 201610906236 A 20161018