

Title (en)  
LIGHTING ELEMENT HAVING A REFLECTING FRESNEL STRUCTURE

Title (de)  
BELEUCHTUNGSELEMENT MIT REFLEKTIERENDER FRESNEL-STRUKTUR

Title (fr)  
ÉLÉMENT D'ÉCLAIRAGE AVEC STRUCTURE DE FRESNEL RÉFLÉCHISSANTE

Publication  
**EP 2108089 B1 20160323 (DE)**

Application  
**EP 08700855 A 20080109**

Priority  
• DE 2008000039 W 20080109  
• DE 102007002438 A 20070110

Abstract (en)  
[origin: WO2008083677A1] The invention relates to lighting elements having a reflecting Fresnel structure (3), by means of which light of a light source (1) is directed to a reflecting element provided with a Fresnel structure, and is reflected there for the illumination of a surface (4). The object of the invention is to create a possibility that allows a homogenous lighting of surfaces to be illuminated in a universal form by means of lighting elements utilizing reflecting elements. A lighting element according to the invention is characterized in that a faceted Fresnel structure, having flank angles of active surfaces of the Fresnel structure that deviate from one another, is configured on the reflecting element in a region about the optical axis of the light source. Thus, at least part of the reflected light is directed toward the outer edge of the surface to be illuminated, and/or a non-structured region is configured on the outer edge of the element to be reflected about a region that is equipped with a Fresnel structure, wherein the non-structured region reflects light in the region of the outer edge of the surface to be illuminated.

IPC 8 full level  
**F21V 7/00** (2006.01); **F21V 7/04** (2006.01)

CPC (source: EP)  
**F21V 7/0008** (2013.01); **F21V 7/05** (2013.01); **F21V 7/09** (2013.01); **F21V 13/04** (2013.01)

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

DOCDB simple family (publication)  
**DE 102007002438 A1 20080717**; EP 2108089 A1 20091014; EP 2108089 B1 20160323; WO 2008083677 A1 20080717

DOCDB simple family (application)  
**DE 102007002438 A 20070110**; DE 2008000039 W 20080109; EP 08700855 A 20080109