Title (en)
Nonlinear optical assembly of an alert light

Title (de)
Nichtlineare optische Anordnung einer Warnleuchte

Title (fr)
Ensemble optique non linéaire d'avertissement lumineux

Publication
EP 3034934 A1 20160622 (EN)

Application
EP 14198115 A 20141216

Priority
EP 14198115 A 20141216

Abstract (en)
An optical assembly (1) of alert light has two nonlinear optical halves (10A, 10B) obtained by symmetrically dividing the optical assembly (1) along an optical reference plane. Each optical half (10A, 10B) has a base (11), which takes a nonlinear and curved form with one side thereof corresponding to the optical reference plane and having a junction surface (112). A light entrance portion (12) and a light exit portion (13) are on two opposite sides of the optical reference plane. The two optical halves (10A, 10B) are assembled to form the nonlinear optical assembly (1) with the junction surfaces (112) therebetween. The nonlinear optical assembly (1) reduces molding and manufacturing requirements. Given the light exit portions (13) of the optical halves (10A, 10B), each light entrance portion (12) corresponds to multiple bulged portions for the nonlinear optical assembly (1) to provide uniform lighting effect.

IPC 8 full level
F21V 5/04 (2006.01); **F21V 5/00** (2015.01); F21Y 103/30 (2016.01); F21Y 105/12 (2016.01); F21Y 115/10 (2016.01)

CPC (source: EP US)
F21V 5/007 (2013.01 - EP US); **F21V 5/046** (2013.01 - EP US); F21Y 2103/30 (2016.07 - EP); F21Y 2105/12 (2016.07 - EP US); F21Y 2115/10 (2016.07 - EP US)

Citation (search report)
- [XI] US 2005024744 A1 20050203 - FALICOFF WAQIDI [US], et al
- [XI] GB 672705 A 19520528 - HOLOPHANE LTD, et al
- [A] US 2009016069 A1 20090115 - MCDERMOTT KEVIN [US]
- [A] EP 1761726 A1 20070314 - KOLB KLAUS [DE]

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)
EP 3034934 A1 20160622; **EP 3034934 B1 20170719**

DOCDB simple family (application)
EP 14198115 A 20141216