

Title (en)

TWO PIECE FOCUSING OPTIC FOR FLASHLIGHT

Title (de)

ZWEITEILIGE FOKUSSIERENDE OPTIK FÜR EINE TASCHENLAMPE

Title (fr)

OPTIQUE DE FOCALISATION EN DEUX PARTIES POUR LAMPE TORCHE

Publication

**EP 2935985 A1 20151028 (EN)**

Application

**EP 13861806 A 20131107**

Priority

- US 201213710820 A 20121211
- US 2013068946 W 20131107

Abstract (en)

[origin: WO2014092891A1] The present disclosure relates to a focusing optic for shaping a beam of light from a light source, such as a light emitting diode (LED), for example in a flashlight or other lighting unit. In various embodiments, the focusing optic includes a central focusing element configured to direct a light beam from an LED in a desired direction; a side wall extending from the central focusing element, wherein the side wall is configured to form a rear void for receiving the LED; and an annular ring portion extending from the side wall and surrounding the central focusing element, wherein the annular ring portion is adapted to reflect light in a desired direction. In some embodiments, the side wall and annular ring portion together define a thickness dimension that varies less than 20% over the lens body.

IPC 8 full level

**F21V 5/04** (2006.01); **F21V 17/02** (2006.01); **F21V 29/00** (2015.01)

CPC (source: EP US)

**F21L 4/027** (2013.01 - EP US); **F21V 5/006** (2013.01 - EP US); **F21V 5/04** (2013.01 - EP US); **F21V 14/025** (2013.01 - EP); **F21V 14/065** (2013.01 - EP); **F21V 29/70** (2015.01 - EP); **F21Y 2115/10** (2016.07 - EP US)

Citation (search report)

See references of WO 2014092891A1

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)

**WO 2014092891 A1 20140619**; EP 2935985 A1 20151028

DOCDB simple family (application)

**US 2013068946 W 20131107**; EP 13861806 A 20131107