

Title (en)
TORCH WITH A ROTATIONALLY SYMMETRICAL OPTICAL ATTACHMENT

Title (de)
TASCHENLAMPE MIT ROTATIONSSYMMETRISCHER VORSATZOPTIK

Title (fr)
LAMPE DE POCHE À OPTIQUE ADDITIONNELLE À SYMÉTRIE DE RÉVOLUTION

Publication
EP 2593711 A2 20130522 (DE)

Application
EP 11809298 A 20110712

Priority
• DE 102010027326 A 20100716
• DE 2011001453 W 20110712

Abstract (en)
[origin: WO2012010153A2] The invention relates to a torch comprising an optical attachment which is rotationally symmetrical to an optical axis, which comprises an outer reflector part, an inner converging lens part and a rear surface having a blind hole bore, and an illuminating diode (LED) arranged on disk-shaped holder. According to the invention, in order to provide a torch with an optical attachment, in which the emission characteristic can be adjusted between a moon mode and a focus mode, in which the torch is as easy to use as possible and the desired focusing can be achieved in a fast and reliable manner, the optical adapter can be displaced in a defined manner between two stops in relation to the LED such that an essentially homogenous beam of light is produced when the optical attachment is placed on the holder.

IPC 8 full level
F21L 4/02 (2006.01); **F21V 14/04** (2006.01)

CPC (source: EP US)
F21L 4/00 (2013.01 - US); **F21L 4/027** (2013.01 - EP US); **F21V 5/006** (2013.01 - EP US); **F21V 5/04** (2013.01 - EP US); **F21V 14/045** (2013.01 - EP US); **F21V 7/0091** (2013.01 - EP US); **F21Y 2115/10** (2016.07 - EP US)

Citation (search report)
See references of WO 2012010153A2

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)
DE 102010027326 A1 20120119; DE 102010027326 B4 20200813; AU 2011282009 A1 20130117; AU 2011282009 B2 20150212; CN 103026122 A 20130403; EP 2593711 A2 20130522; EP 2593711 B1 20200212; JP 2013531347 A 20130801; JP 5795063 B2 20151014; US 2013107509 A1 20130502; US 8770783 B2 20140708; WO 2012010153 A2 20120126; WO 2012010153 A3 20120607

DOCDB simple family (application)
DE 102010027326 A 20100716; AU 2011282009 A 20110712; CN 201180034950 A 20110712; DE 2011001453 W 20110712; EP 11809298 A 20110712; JP 2013518954 A 20110712; US 201113700211 A 20110712