

Title (en)

Focusing device for the light beam in illumination elements with damp chamber

Title (de)

Fokussiervorrichtung für den Lichtstrahl in Beleuchtungselementen mit Feuchtigkeitskammer

Title (fr)

Dispositif de mise au point pour faisceau lumineux d'éléments d'éclairage dotés d'une chambre humide

Publication

**EP 2161491 A2 20100310 (EN)**

Application

**EP 09380149 A 20090904**

Priority

ES 200801834 U 20080908

Abstract (en)

Focusing device for the light beam in illumination elements with damp chamber, of the type of illumination element, such as torches, which consists of a chamber with a fluid, such as ambient air or water, in such a way that the torch body (1) incorporates externally with respect to the light emitter (2) a hollow tubular body (4), axially displaceable, said hollow tubular body (4) holding a plano-convex lens (3) and is connected to the ambient air or water chamber (6), the tubular body (4) including an axial slot (8) in which fits a projection (9) of the torch body (1) so that said axial displacement of the plano-convex focusing lens (5), mounted in the tubular body (4), provides a variable beam that can be adjusted to the needs of the user.

IPC 8 full level

**B63C 11/02** (2006.01); **F21L 4/02** (2006.01); **F21V 14/06** (2006.01)

CPC (source: EP US)

**F21L 4/027** (2013.01 - EP); **F21V 14/065** (2013.01 - EP US); **F21Y 2115/10** (2016.07 - EP US)

Cited by

CN103742868A; CN103883944A; CN103883943A; CN107514549A; EP2418421A1; AU2011201398B2; US9140417B2; WO2014131265A1

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 MK MT NL NO PL PT RO SE SI SK SM TR

Designated extension state (EPC)

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DOCDB simple family (publication)

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