

Title (en)

LED (LIGHT EMITTING DIODE) LUMINOUS SOURCE MODULE

Title (de)

AUF LED (LEUCHTDIODE) BASIERENDES LICHTQUELLENMODUL

Title (fr)

MODULE DE SOURCE LUMINEUSE A LED (DIODE ELECTROLUMINESCENTE)

Publication

EP 2656117 A1 20131030 (FR)

Application

EP 11802711 A 20111220

Priority

- FR 1060823 A 20101220
- EP 2011073339 W 20111220

Abstract (en)

[origin: WO2012084899A1] Polymeric optical lens for LED (light-emitting diode) luminous source module, in particular a LED luminous source module comprising this optical lens, and an LED lamp comprising this module. Optical lens for LED (light-emitting diode) luminous source module comprising a polymer chosen from among cellulose and its derivatives, starch and its derivatives, alginates and their derivatives, guar and their derivatives, chitin and its derivatives, pectin and its derivatives.

IPC 8 full level

G02B 1/04 (2006.01); **H01L 25/075** (2006.01); **H01L 33/58** (2010.01)

CPC (source: EP KR US)

C08L 1/02 (2013.01 - EP US); **C08L 3/02** (2013.01 - EP US); **C08L 5/00** (2013.01 - EP US); **C08L 5/04** (2013.01 - EP US); **C08L 5/06** (2013.01 - EP US); **C08L 5/08** (2013.01 - EP US); **G02B 1/04** (2013.01 - EP KR US); **H01L 25/075** (2013.01 - KR); **H01L 33/58** (2013.01 - EP KR US); **H01L 33/56** (2013.01 - EP US)

Citation (search report)

See references of WO 2012084899A1

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)

FR 2969311 A1 20120622; **FR 2969311 B1 20130118**; CN 103492911 A 20140101; EP 2656117 A1 20131030; JP 2014501444 A 20140120; KR 20140048078 A 20140423; US 2013341665 A1 20131226; WO 2012084899 A1 20120628

DOCDB simple family (application)

FR 1060823 A 20101220; CN 201180068017 A 20111220; EP 11802711 A 20111220; EP 2011073339 W 20111220; JP 2013543834 A 20111220; KR 20137019027 A 20111220; US 201113995435 A 20111220