Title (en)

OPTICAL ZOOM ASSEMBLY FOR A NON-IMAGING ILLUMINATION APPLICATION AND LUMINAIRE USING SAME

Title (de)

OPTISCHE ZOOM-ANORDNUNG FÜR EINE NICHT-BILDGEBENDE BELEUCHTUNGSANWENDUNG UND LEUCHTE DAMIT

Title (fr)

ENSEMBLE ZOOM OPTIQUE POUR APPLICATION D'ÉCLAIRAGE SANS IMAGE ET LUMINAIRE L'UTILISANT

Publication

EP 2591282 A1 20130515 (EN)

Application

EP 11757936 A 20110707

Priority

- US 36280310 P 20100709
- IB 2011053019 W 20110707

Abstract (en)

[origin: WO2012004760A1] An optical zoom assembly (16) for a non- imaging illumination application and luminaire (10) using the same are disclosed. In one embodiment, a light emitting diode chip (40) provides light to an optical conductor (46) having a plurality of transmission paths that enable the mixing of the light. A collector lens (48) is disposed serially and coaxially with the optical conductor to the mixed light received from the optical conductor. A zoom subassembly (50), including one or more optical lenses located serially and coaxially with the central optical axis, is movable coaxially with respect to the collector lens to create a beam of light having a divergence profile controlled by a variable spacing between the one or more optical lenses and the collector lens.

IPC 8 full level

F21V 14/06 (2006.01); **F21V 13/04** (2006.01); **G02B 27/09** (2006.01)

CPC (source: EP US)

F21V 5/008 (2013.01 - EP US); **F21V 14/06** (2013.01 - EP); **G02B 19/0028** (2013.01 - EP); **G02B 19/0066** (2013.01 - EP); **G02B 27/0927** (2013.01 - EP US); **G02B 27/0955** (2013.01 - EP); **G02B 27/0994** (2013.01 - EP); F21W 2131/40 (2013.01 - EP); F21Y 2115/10 (2016.07 - EP US)

Citation (search report)

See references of WO 2012004760A1

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)

WO 2012004760 A1 20120112; CN 102959326 A 20130306; EP 2591282 A1 20130515; TW 201229559 A 20120716

DOCDB simple family (application)

IB 2011053019 W 20110707; CN 201180034028 A 20110707; EP 11757936 A 20110707; TW 100124369 A 20110708