(19) Europäisches Patentamt
European Patent Office
Office européen des brevets

(11) EP 2 400 212 A3

(12) EUROPEAN PATENT APPLICATION

(88) Date of publication A3:
14.08.2013 Bulletin 2013/33

(43) Date of publication A2:
28.12.2011 Bulletin 2011/52

(21) Application number: **10186399.1**

(22) Date of filing: **04.10.2010**

(51) Int Cl.:
F21S 8/08 *(2006.01)* ***F21V 29/00*** *(2006.01)*
F21V 13/04 *(2006.01)* ***F21V 7/00*** *(2006.01)*
F21W 131/103 *(2006.01)* *F21Y 105/00* *(2006.01)*

(84) Designated Contracting States:
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 States:
BA ME

(30) Priority: **28.06.2010 CN 201020251359 U**

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(54) LED lamp forming light distribution mode of approximate parallel optical array by using lenses

(57) A light-emitting diode (LED) lamp forming a light distribution mode of an approximate parallel optical array by using lenses is provided. The LED lamp includes substrates (1) for mounting LEDs (10), reflectors (2), a power source (5), and a top cover (6). Each of the substrates has a condenser lens (11) at a front end of each of the LEDs (10), and the condenser lenses (11) are used for converging beam angles of the LEDs (10). The plurality of LEDs (10) is arranged in a matrix to form an approximate parallel optical array. The reflectors (2) each have a curved surface (21) for performing reflection and light controlling on light rays reflected and controlled by a curved wall. The LED lamp realizes uniform lighting in the whole lighting range through performing lens condensing once and reflection light controlling once, thereby achieving excellent directivity of illumination and uniform brightness, and eliminating the glare phenomenon.

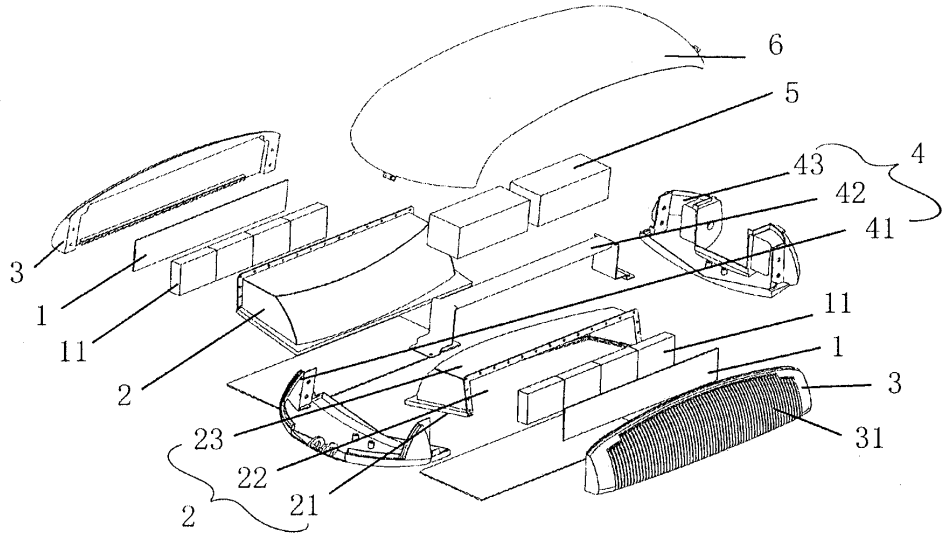

FIG. 2

EP 2 400 212 A3

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EUROPEAN SEARCH REPORT

Application Number
EP 10 18 6399

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Place of search	Date of completion of the search	Examiner
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CATEGORY OF CITED DOCUMENTS

X : particularly relevant if taken alone
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EPO FORM 1503 03.82 (P04C01)

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