



US009812043B2

(12) **United States Patent**
Auyeung et al.

(10) **Patent No.:** **US 9,812,043 B2**
(45) **Date of Patent:** **Nov. 7, 2017**

(54) **LIGHT ASSEMBLY FOR PROVIDING SUBSTANTIALLY UNIFORM ILLUMINATION**

(58) **Field of Classification Search**
CPC . F21V 5/08; F21V 5/048; F21V 5/007; F21V 5/008; F21V 5/04; F21V 5/046;
(Continued)

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(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

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(21) Appl. No.: **14/630,500**

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(22) Filed: **Feb. 24, 2015**

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(65) **Prior Publication Data**

US 2015/0167923 A1 Jun. 18, 2015

Related U.S. Application Data

(63) Continuation of application No. 13/836,517, filed on Mar. 15, 2013, now Pat. No. 8,974,077.
(Continued)

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(51) **Int. Cl.**
F21S 4/00 (2016.01)
G09F 13/22 (2006.01)
(Continued)

(57) **ABSTRACT**

A lighting assembly can be used for illuminating a predetermined area. The assembly includes a number of LEDs directed toward the predetermined area and a number of lenses. Each lens is disposed over only one associated LED and is configured to direct light from that LED toward the predetermined area, such that the light from each lens is directed across the entire predetermined area. The light intensity from each lens is substantially uniform across the entire predetermined area.

(52) **U.S. Cl.**
CPC **G09F 13/22** (2013.01); **F21K 9/60** (2016.08); **F21S 6/006** (2013.01); **F21V 5/007** (2013.01);
(Continued)

26 Claims, 13 Drawing Sheets

