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**Yuan et al.**

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(54) **OPTICAL WAVEGUIDE ASSEMBLY AND LIGHT ENGINE INCLUDING SAME**

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*G02B 6/0046* (2013.01); *G02F 1/1335*  
(2013.01)

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(58) **Field of Classification Search**  
USPC ..... 385/27; 362/247  
See application file for complete search history.

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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 202 days.

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**Related U.S. Application Data**

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*F21V 8/00* (2006.01)  
*G02F 1/1335* (2006.01)

(57) **ABSTRACT**

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CPC ..... *G02B 6/0016* (2013.01); *G02B 6/0021* (2013.01); *G02B 6/0038* (2013.01); *G02B*

An optical waveguide assembly includes a plurality of separate body sections each having a coupling cavity for receiving an LED element and a light extraction feature spaced from the coupling cavity, and a mounting structure surrounding the plurality of body sections that maintains the plurality of body sections in assembled relationship. The waveguide assembly may be incorporated into a light engine.

**42 Claims, 14 Drawing Sheets**

