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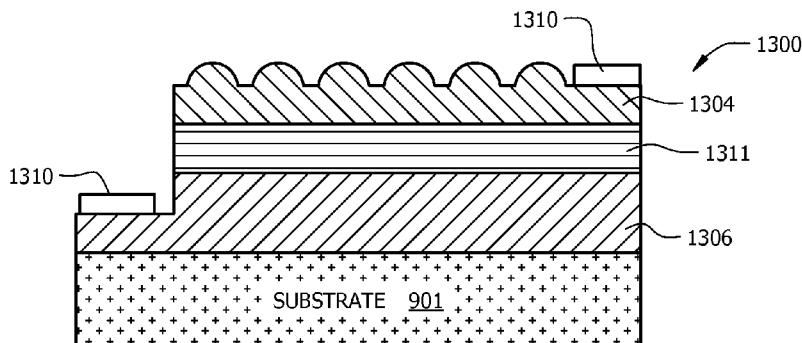


FIG. 13

(57) Abstract: A solid state light source includes a substrate having a top surface and a bottom surface, and at least one optically active layer on the top surface of the substrate. At least one of the top surface, the bottom surface, the optically active layer or an emission surface on the optically active layer includes a patterned surface that includes a plurality of tilted surface features that have a high elevation portion and a low elevation portion that define a height (h), and wherein the plurality of tilted surface features define a minimum lateral dimension (r). The plurality of tilted surface features provide at least one surface portion that has a surface tilt angle from 3 to 85 degrees. The patterned surface has a surface roughness < 10 nm rms, and h/r is > 0.05.



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A. CLASSIFICATION OF SUBJECT MATTER***H01L 33/22(2010.01)i, H01L 33/20(2010.01)i***

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B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

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Korean utility models and applications for utility models

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Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

eKOMPASS(KIPO internal) & Keywords: cmf or cmp ,tilt ,led

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
E	US 2010-0260977 A1 (SINGH RAJIV K. et al.) 14 October 2010 See all the document	1-26
A	KR 10-0932615 B1 (Siltron Inc.) 17 December 2009 See all the document	1-26
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A	KR 10-1998-0012602 A (SAMSUNG ELECTRONICS Ltd.) 30 April 1998 See all the document	1-26

 Further documents are listed in the continuation of Box C. See patent family annex.

* Special categories of cited documents:

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