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(54) Title: **LIGHTGUIDES HAVING LIGHT EXTRACTION STRUCTURES PROVIDING REGIONAL CONTROL OF LIGHT OUTPUT**

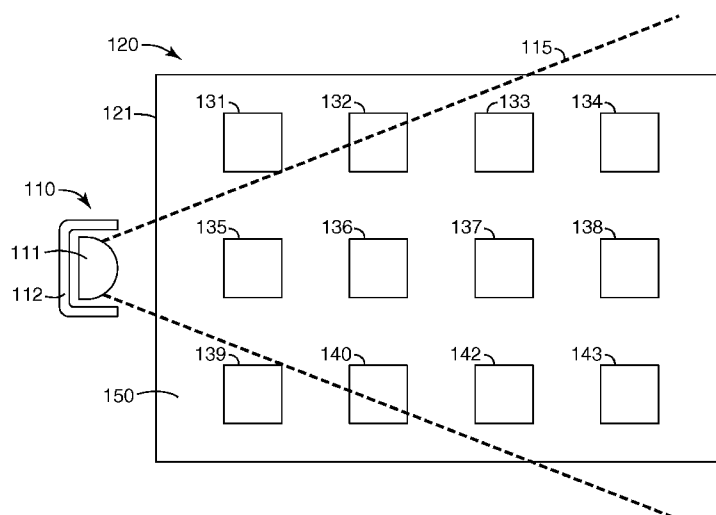


Figure 1A

(57) **Abstract:** Lightguides, devices incorporating lightguides, and processes for making lightguides are described. A lightguide includes light extractors arranged in a pattern on a surface of the lightguide. The pattern of light extractors is arranged to enhance uniformity of light output across a surface of the lightguide and to provide enhanced defect hiding. The efficiency of the light extractors is controlled by a shape factor. The areal density of the light extractors across the surface of the lightguide may be substantially constant or may decrease along the direction of propagation of light from the light source.

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