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United States Patent [19]

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[11]

[54] SURFACE LIGHT SOURCE DEVICE OF SIDE LIGHT TYPE HAVING DIFFUSING ELEMENT WITH IMPROVED DISTRIBUTION PATTERN OF LIGHT					
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Mar. 31, 1995 [JP] Japan 7-097450					
[52]	Int. Cl. ⁶ F21V 8/00 U.S. Cl. 362/31; 362/26 Field of Search 362/31, 26, 27				
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ABSTRACT

A dot pattern of a light guide plate is optimally designed for a surface light source device of side light type. A lamp 1 is disposed at the side of the light guide plate 2 and light introduced from a light incidence surface into the light guide plate 2 is emitted from a luminous surface. The dot pattern is arranged on the rear surface of the light guide plate 2 according to the following principles: (1) there is a (gradient) portion where the rate of area occupation of the dot pattern increases from a region (usually a far region) lowly exposable to light from the lamp 1; and (2) there is no sharp variation in the rate of area occupation of the dot pattern. At a corner of the light guide plate 2, a substantially triangular dot pattern is disposed for compensating any luminance drop due to the location in the vicinity of an electrode portion 1a of the lamp 1.

3 Claims, 9 Drawing Sheets

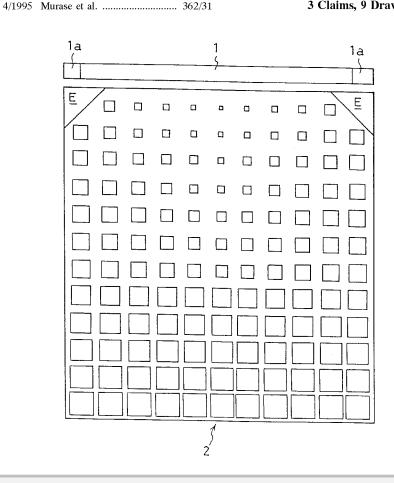




FIG. 1 PRIOR ART

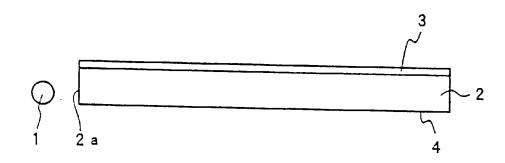




FIG. 3 PRIOR ART

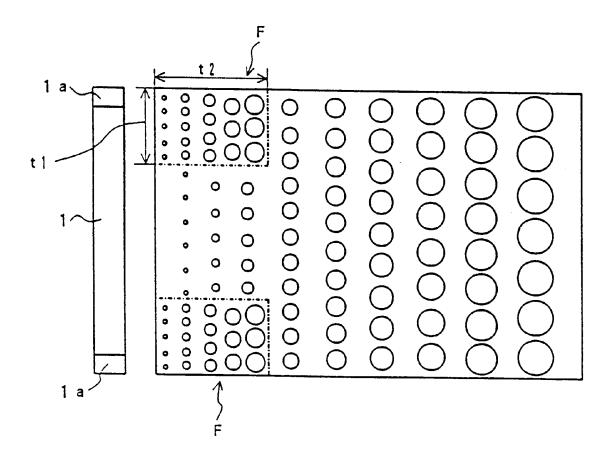
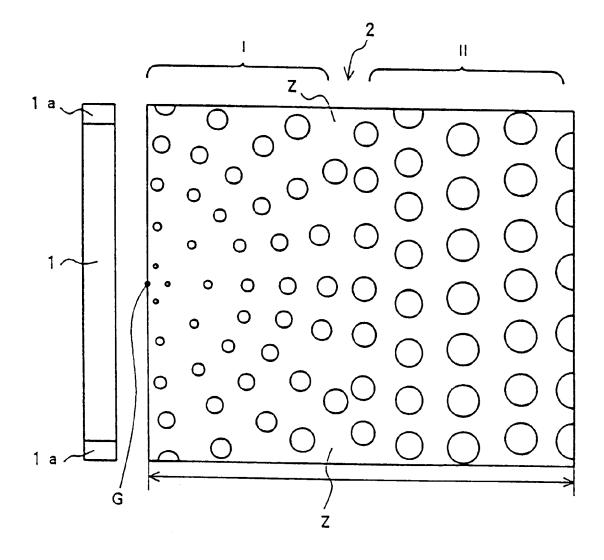
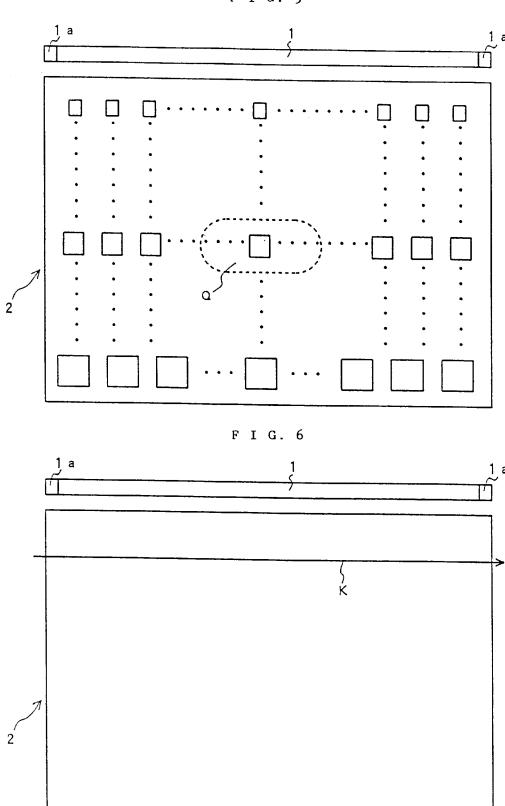


FIG. 4 PRIOR ART



F I G. 5



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