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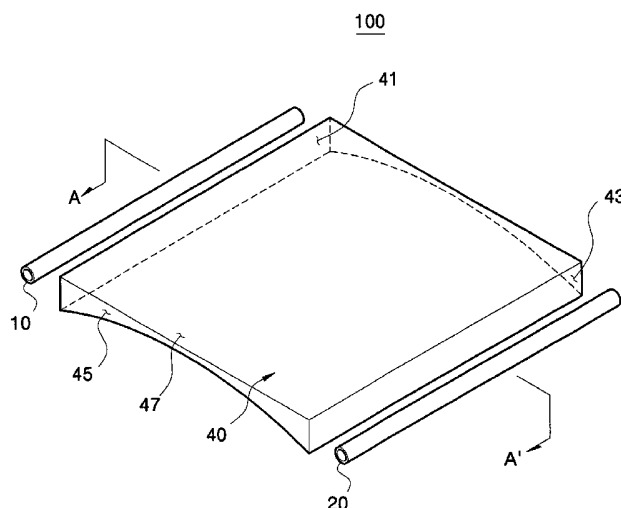
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(54) Title: BACK LIGHT ASSEMBLY AND LIQUID CRYSTAL DISPLAY APPARATUS HAVING THE SAME



(57) Abstract: The backlight assembly (100) includes a light source and a light guide plate (40). The light source includes a plurality of light generating parts (10, 20) that generate a first light. The light guide plate (40) includes side surfaces (41, 43), a light exiting surface (47) and a light reflecting surface (45). The light exiting surface (47) has a plurality of luminance-compensating patterns (47a). The light reflecting surface (45) faces the light exiting surface (47). The first light enters into the light guide plate (40) via the light incident surface (41, 43) to form a second light. The second light is reflected on the light reflecting surface (45) toward the light exiting surface (47) to form a third light. The third light exits from the light guide plate (40) via the light exiting surface (47). The luminance-compensating patterns (47a) uniformize a luminance of the third light. A thickness of the light guide plate (40) decreases in a direction from the light incident surface (41, 43) to a center of the light guide plate (40).



For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

INTERNATIONAL SEARCH REPORT

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According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC⁷: G02F, G02B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

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

EPODOC, WPI, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5123077 A (ENDO et al.) 16 June 1992 (16.06.92) <i>fig. 1,2,4-6; column 3, line 39 - column 7, line 59.</i>	1,2,5,8,12
Y		7,9,13
A		3,4
X	EP 0663600 A1 (NITTO J. K. KABUSHIKI) 19 July 1995 (19.07.95) <i>fig. 1-3,7,8; column 4, line 46 - column 9, line 15.</i>	1-3
Y		9
A		5-8,12,13
Y	EP 0607453 A1 (SEIKO EPSON COR.) 27 July 1994 (27.07.94) <i>abstract; fig. 19.</i>	7
A		1,12

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

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 5450292 A (YOKOYAMA et al.) 12 September 1995 (12.09.95) <i>fig. 9, 10A-C, 11A, B, 12A-C, 14, 16, 18, 19; column 3, line 62 - column 4, line 10; column 4, line 67 - column 6, line 46.</i>	1-5,7,8,10, 11,13
A		12
Y	EP 0500960 A1 (MITSUBISHI RAYON CO.) 2 September 1992 (02.09.92) <i>page 4, line 56 - page 6, line 5; page 6, lines 48-50; fig. 3-5,7,9,11.</i>	1-5,7,8,10,11
A		12

INTERNATIONAL SEARCH REPORT

Information on patent family members

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