



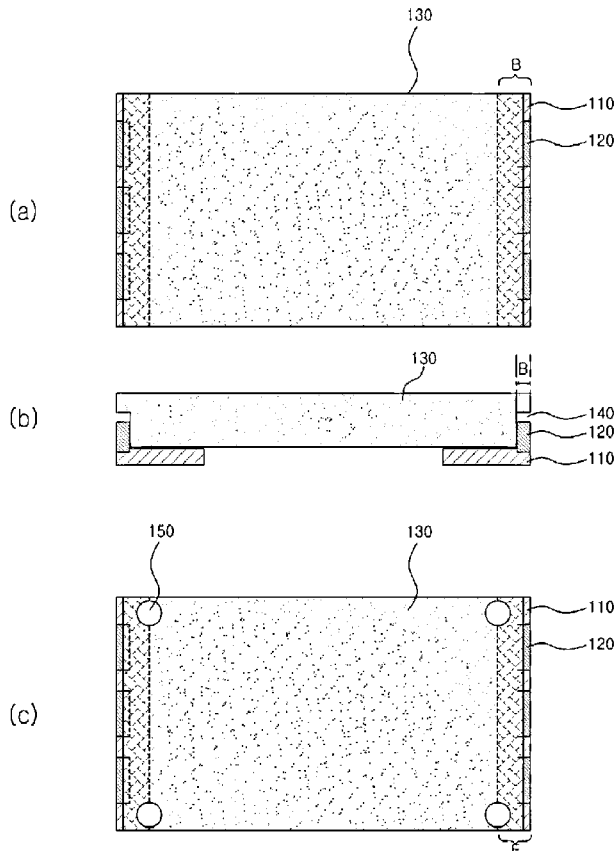
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[Continued on next page]

(54) Title: BACK LIGHT UNIT

[Fig. 2]



(57) Abstract: The present invention relates to a structure of an edge-type back light unit, particularly to a structure comprising a light source receiving part, which receives a light source such as LED formed to the central direction of an optical plate at one side or the other side of the optical plate.

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**(81) Designated States** (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

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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)

G02F 1/13357; H01L 33/00; G02F 1/1335; F21V 8/00

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

Korean utility models and applications for utility models

Japanese utility models and applications for utility models

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

eKOMPASS(KIPO internal) &amp; Keywords: backlight, groove, PCB, LED

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	KR 10-2007-0101517 A (HEESUNG ELECTRONICS CO.) 17 October 2007 See abstract, figures 1,3,4, page 4.	1-9
Y	KR 10-2009-0095366 A (HUMAN LIGHTTECH CO.) 09 September 2009 See abstract, figure 3, pages 4.	1-9
Y	JP 2005-252082 A (NIPPON LEIZ CO LTD) 15 September 2005 See abstract, figure 1, page 6,7.	4
A	JP 09-005742 A (HAYASHI TELEMPU CO LTD et al.) 10 January 1997 See abstract, figure 2, page 4.	1-15
A	KR 10-2005-0094191 A (DOOSAN CO.) 27 September 2005 See abstract, figures 3,5b,5c, claims 1,2,4.	1-15

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

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Date of the actual completion of the international search

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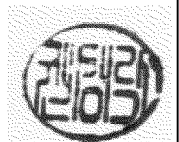
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**INTERNATIONAL SEARCH REPORT**

Information on patent family members

International application No.

**PCT/KR2011/010354**

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
KR 10-2007-0101517 A	17.10.2007	None	
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JP 09-005742 A	10.01.1997	None	
KR 10-2005-0094191 A	27.09.2005	None	