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(71) Applicant (for all designated States except US): **SAM-SUNG ELECTRONICS CO., LTD.** [KR/KR]; 416, Maetan-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do 442-742 (KR).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **LEE, You-Sub** [KR/KR]; Ureuk Apt. #711-904, Sanbon-dong, Gunpo-si, Gyeonggi-do 435-040 (KR). **NOH, Ji-Whan**; Samsung Apt. #21-204, Maetan-dong, Paldal-gu, Suwon-si,

Gyeonggi-do 442-370 (KR). **KIM, Won-Nyun** [KR/KR]; Woosung Apt. #109-1102,, Bangbae-2dong, Seocho-go., Seoul 137-062 (KR).

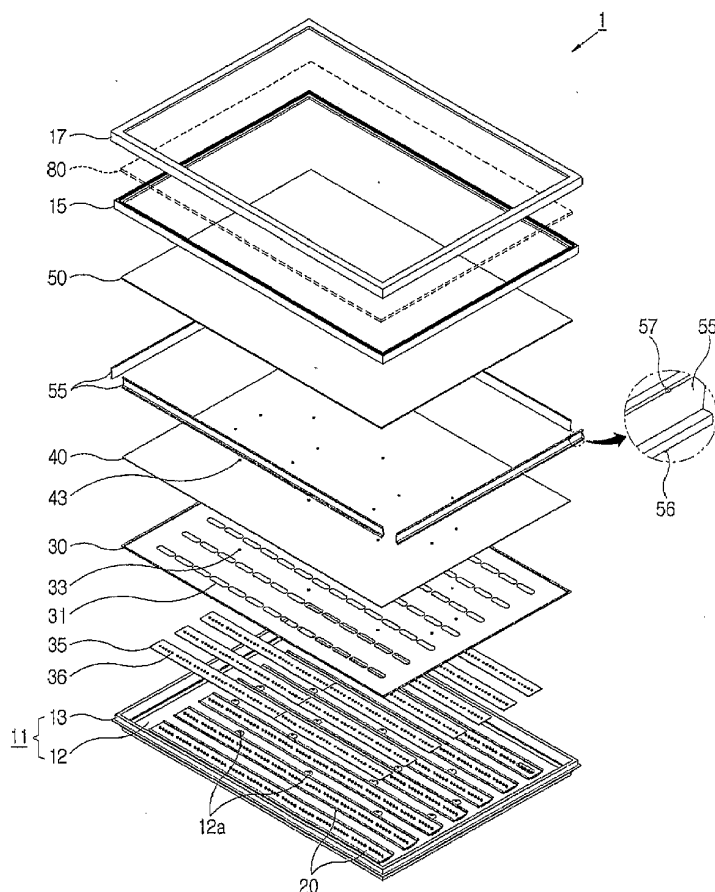
(74) Agents: **HUH, Sung-Won** et al.; Shinwon Bldg. 1F, 823-14, Yoksam-dong, Kangnam-ku, Seoul 135-080 (KR).

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[Continued on next page]

(54) Title: BACKLIGHT UNIT AND LCD DISPLAY APPARATUS HAVING THE SAME



(57) Abstract: A backlight unit including an LED module including a plurality of LEDs emitting light, and an LED substrate supporting and driving the plurality of LEDs, a diffusion sheet placed over the LED module and diffusing light emitted from the LED module, an optical sheet placed over the diffusion sheet, a module supporter placed on a back of the LED module and supporting the LED module, a chassis assembly supporting the module supporter and the diffusion sheet, and a plurality of support pins supporting the diffusion sheet and the optical sheet against the chassis assembly. Thus, backlight unit having an improved structure in assembling efficiency is provided.



FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT,
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BACKLIGHT UNIT AND LCD DISPLAY APPARATUS HAVING THE
SAME

FIELD OF THE INVENTION

5 The present general inventive concept relates to a backlight unit, and more particularly, to a backlight unit employing a light emitting diode (LED) module as a light source.

BACKGROUND ART

10 Generally, a backlight unit is placed in a back of a liquid crystal display (LCD) panel and emits light toward the LCD panel. There has recently been developed a backlight unit employing an LED as a light source.

As the backlight unit employing the LED as the light
15 source, there is an LCD backlight unit disclosed in Korean Utility Model No. 1995-33088. Such a conventional backlight unit comprises a diffusion sheet to scatter and diffuse light, a frame placed in a back and an edge of the diffusion sheet, an LCD driving printed circuit board
20 (PCB) placed behind the frame, and an LED chip coupled to the LCD driving PCB and inserted into a plurality of holes formed on the frame to emit light toward the diffusion sheet.

However, it is inconvenient to process and assemble
25 the frame of the conventional backlight as described

专利名称(译)	背光单元和具有该背光单元的LCD显示装置		
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[标]申请(专利权)人(译)	三星电子株式会社		
申请(专利权)人(译)	SAMSUNG ELECTRONICS CO. , LTD.		
当前申请(专利权)人(译)	SAMSUNG ELECTRONICS CO. , LTD.		
[标]发明人	LEE YOU SUB NOH JI WHAN KIM WON NYUN		
发明人	LEE, YOU-SUB NOH, JI-WHAN KIM, WON-NYUN		
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摘要(译)

一种背光单元，包括LED模块，LED模块包括发光的多个LED，支撑和驱动多个LED的LED基板，放置在LED模块上方并扩散从LED模块发出的光的扩散片，放置在LED模块上方的光学片扩散片，放置在LED模块背面并支撑LED模块的模块支撑件，支撑模块支撑件和扩散片的底盘组件，以及支撑扩散片和光学片抵靠底盘组件的多个支撑销。因此，提供了一种具有改进的组装效率结构的背光单元。

