

(19) (KR)
(12) (A)

(51) 。 Int. Cl. ⁷ G02F 1/13357	(11) (43)	10-2005-0001725 2005 01 07
(21)	10-2003-0042006	
(22)	2003 06 26	
(71)	416	
(72)	103 801	
(74)		
:		
(54)	,	

가 . ,
가 . ,
가 . ,
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- 1 1 .
- 2 1 A .
- 3 1 B-B .
- 4 2 .
- 5a 3 .

5b	5a	B	.
6	5		.
7	6	C-C	.
8	6	D-D	.
9		4	.
10	9		.
11		4	.
12		6	.

, (Liquid Crystal, LC)

(Liquid Crystal Display device, LCD)

가 가 가
TV (liquid crystal television receiver)

(pixel voltage) (pixel electrode) (common electrode)
(reference voltage) 가 1
(Thin Film Transistor, TFT)가

(Cold Cathode Fluorescent Lamp, CCFL)가

가 , , , .

< 1> 가 .

[1]

	4.0mA	4.5mA	5.0mA	5.5mA	6.0mA	6.45mA
()	90	93.5	97.6	102	106.9	111.2
()	81.6	84.7	88.5	92.3	96.5	100.2

< 1> , 가 , 가 .
(holder) 가 .
가 6.45mA , 111.2 , 100.2 .
240 6.45mA .
(Light Guide Panel, LGP) 100
100
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가 1 , 가 가
가
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가 1 1 1 ,
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1
 1 3 1 B-B
 1 3 (light source assembly;100) (light source unit;110), (h
 older;120) (reflection cover;130)
 (110) (body;112), (fluorescent layer;114) (discharge voltage tran
 sferring port;116)
 (112) (112) (tubular shape)
 (112) 가 (non-visible ray) 가 (118) (118
 a)
 가 (118) (Hg) 가 (118) (Ar), (Ne), (Kr), (Xe)
 가 가 가 가 (118) (Hg)
 가
 (112) 가 가 (visible ray) (114)
 (114) 가 가 (non-visible ray) 가
 (114) 가 (114)
 가 가 가 가
 가 가 가
 (116) (112) (116) 가
 (discharge voltage) (112) (116) (112)
 (112) 가 (electron) (114) 가 (112)
 가 (118) 가
 (112)
 (116) (112) (112)
 (116) (112) (112)
 6) (112) 1 (112a) 1 (116a) (112) 1 (112a) (11
 2 (112b) 2 (116b)
 (120) (110) (120) (110) 1 (112a) 2 (110)
 (112b) (122)
 (130) (136) (139)
 (136) (110) 가 (136) 1 (131), 2 (136) (132)
 3 가 (133) 1 (131) (110)
 2 (132) 1 (131) 2 (132) (110) 3 (133) 2
 (132) 1 (131)
 1 (131)
 (139) (130) (120) (120) (139)
 (110) (120) (130) (120)

, (139) (130) 1 (131) . , (139) 1 (131)
(120) (139) (110)

(110) , (100) (130) (120) (139) ,
(120) , (120) (139)

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4 2
1 , 1

4 , (138) (130) 3 (133) . 3 (133)
(138) (120) (138) 3 (133) (120) (120) 가
3 (133) (120) (138) (120)

(110) , (100) (130) (120) (138) (138) ,
(120) , (120) (138)

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5a 3
6 5 . 7 6 C-C . 5b 5a B
D-D . 8 6

5a 8 , (200) (100), (250) 1 (280)

(100) (110), (120) (130) .

(110) (112), (114) (116) .

(112) 가 가 (118) (118a)

(114) (112) , (114) 가 가 가
(114) , ,

(116) (112) (116) 가
(112) (116) (112) 가
(112) (electron) (114) 가 가 (112) , (112) 가 (118) 가
112) (112)

(120) (110) (120) (110) , (110)
(120)

(130) (136) (136) (110)
 가 (136) 1 (131), 2 (132) 3 가 (133) 1 (131) (110)
 (110) 3 (133) 2 (132) 1 (131) 2 (131) (132)
 , 3 (133) 1 (131) (110)
 (250) (110) 가 (250)
 (110) 가
 , (250) (252) (252) (110) 가
 (252a), 가 (252b) 가
 (252c)
 (250) (252) (254,256) (254,256)
 (256) (254)
 1 (280) 가 1 (280) (110) (285) (288)
 (285) 1 (282) 1 (284) 1 (284) (282)
 (100) (250) 1 (284) (828) (284) (282)
 (250) (100)
 (288) (285) (250) (100) (120)
 (288) (250)가 (120)
 (288) (288) (285) 1 (284) 1 (284)
 (132) 3 (133) (100) (136) (288) (136) 2
 (250) (120) (120) (250) (252a) (133) (288) (120)
 (120) (250) (288)
 , 1 (280) (120) (250) (288)
 (110) (120) (250) (250) (250)
 (250) (250)

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 9 4 10 9 3
 3
 9 10 (289) 1 (280) 1 (282) (289)
 1 (280) 1 (282)
 (250) (289) (120) (250) (289)가 (120)
 (280) 1 (282) 1 (282) (289) 1 (250)
 (289) (100)가 1 (280)
 (289) (250) (120), (100) 1 (131) 2
 (132) (120), 1 (131) 2

(132) (289) (120)

5

11 4 3 3 2

11 , 2 (290) 1 (280) , 1 (280) 1 (280)

가 , 1 (280) (100)가 2 (290)

1 (280) (288) (280) (292) 2 (294) 1

2 (292) 1 (280) 1 (282) , 2 (292) 2 (294) 2 (294) 1

(280)가 (288)가 1 (280) 2 (290) 1

(280)가 가

6

12 6 3 3

12 , (600) (200), (300), (400) (500)

0) (300) (200) 1 (280) (300)

(400) (400) (400) (200)

(400) (200) (110) 가

(400) TFT (410), (430) (420)

TFT (410) 가 ,

(420) TFT (410) ,

(430) TFT (410) (420)

0) , 1 (400) (500) , (500) (400) (200)

(280) (400) (200)

(57)

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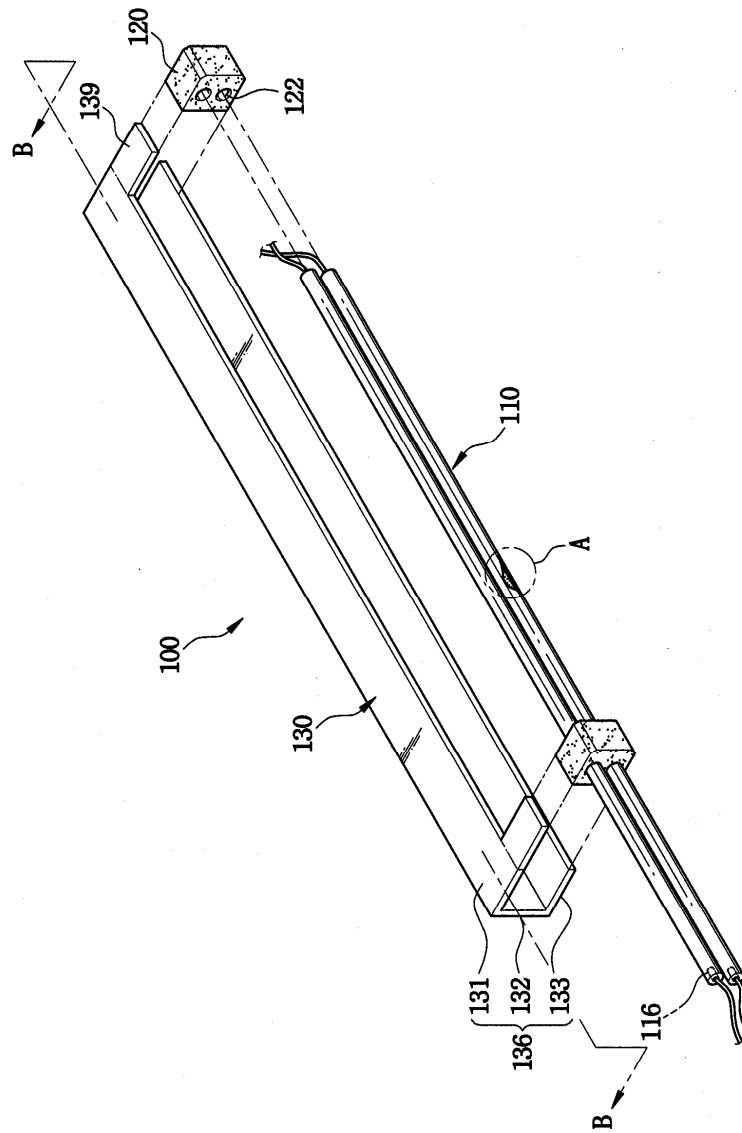
18.

, 1
- 15

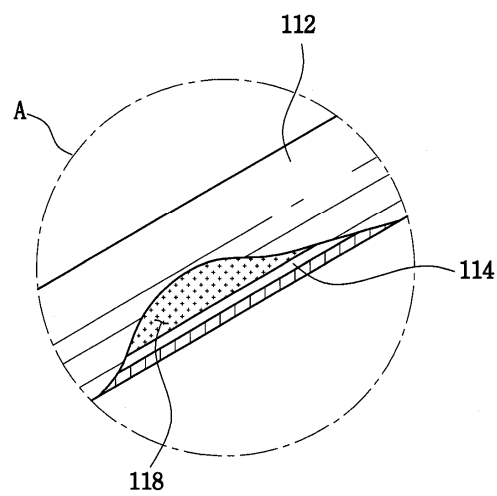
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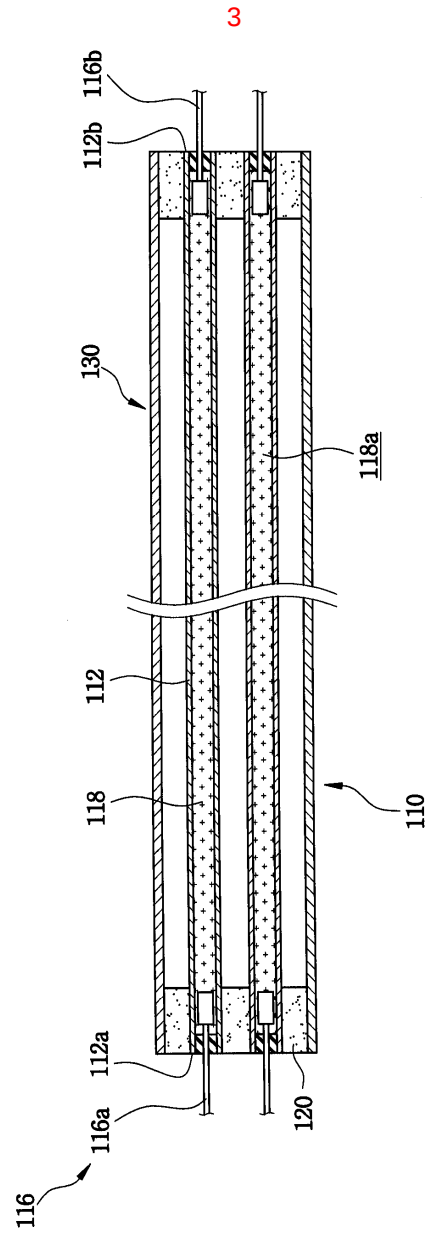
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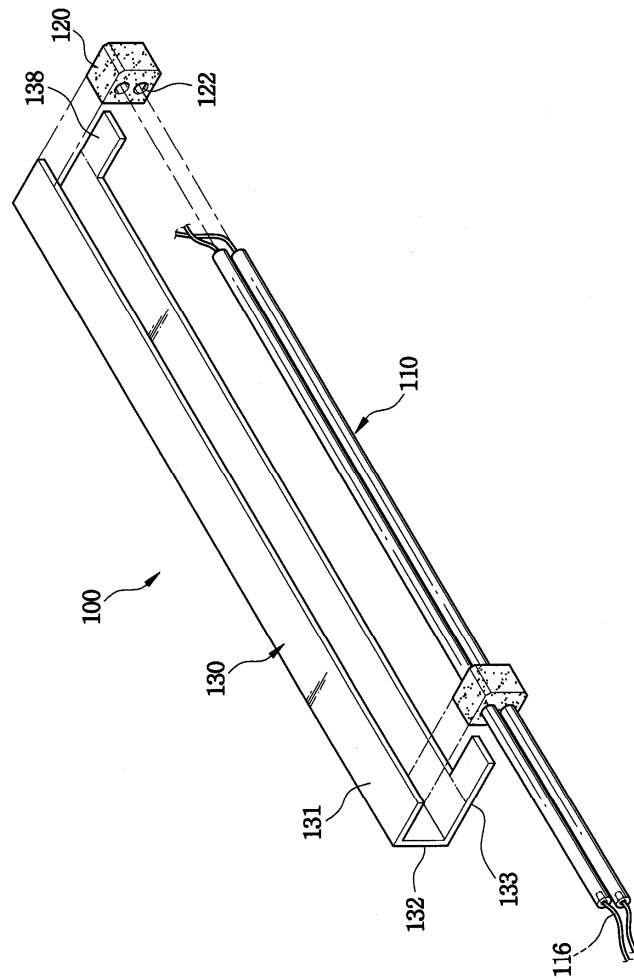


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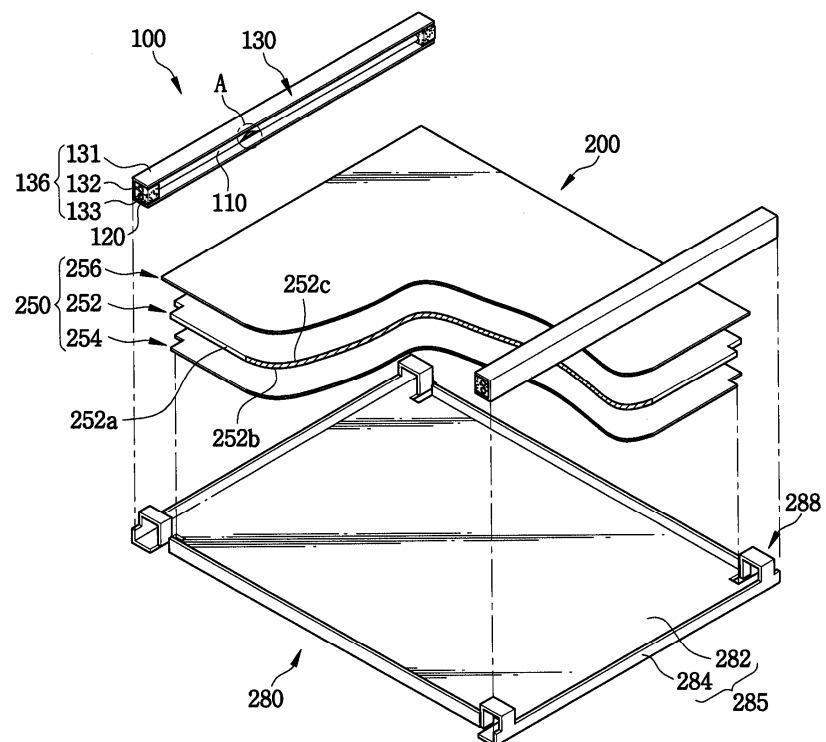


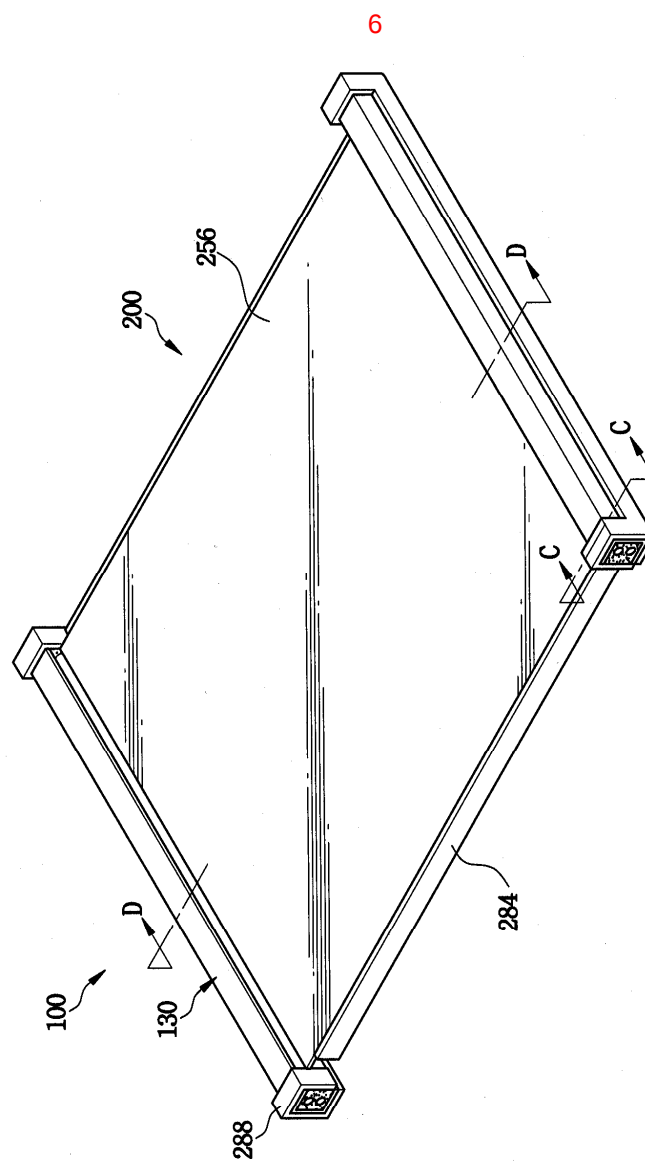
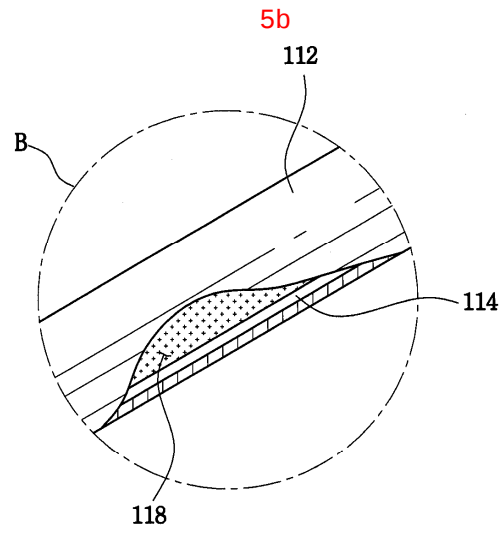


4

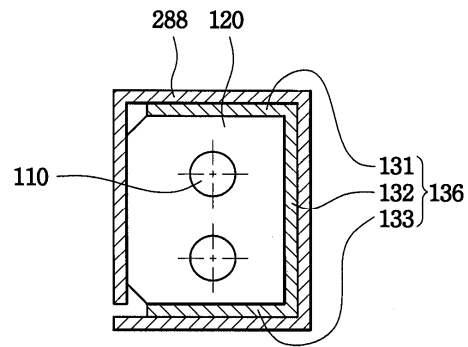


5a

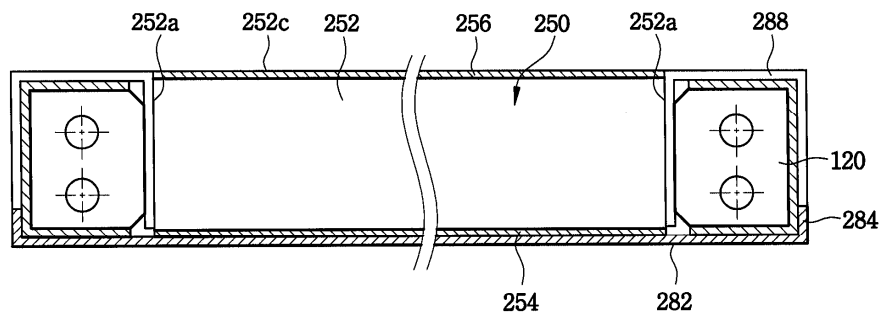




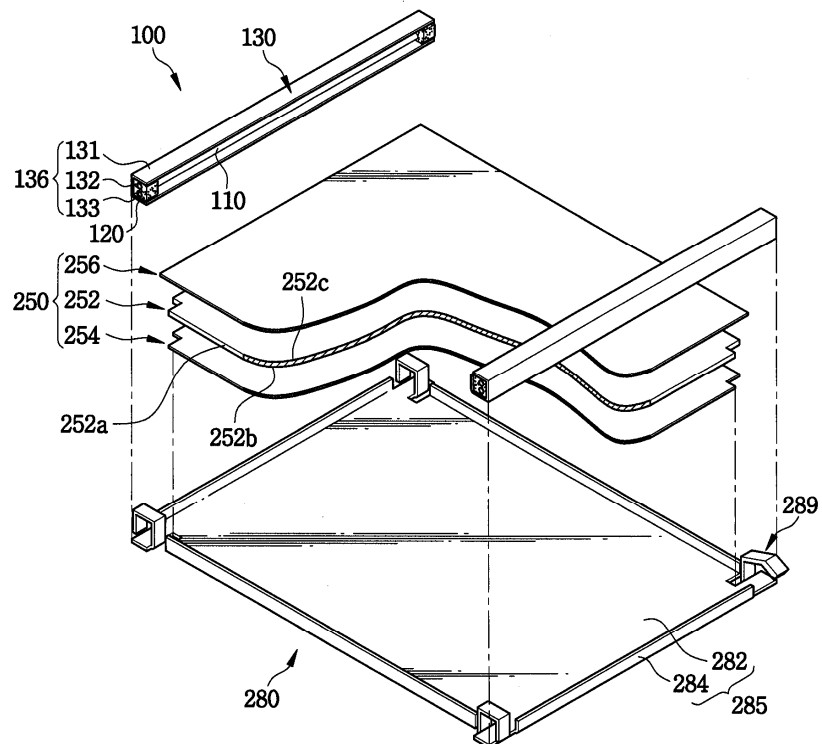
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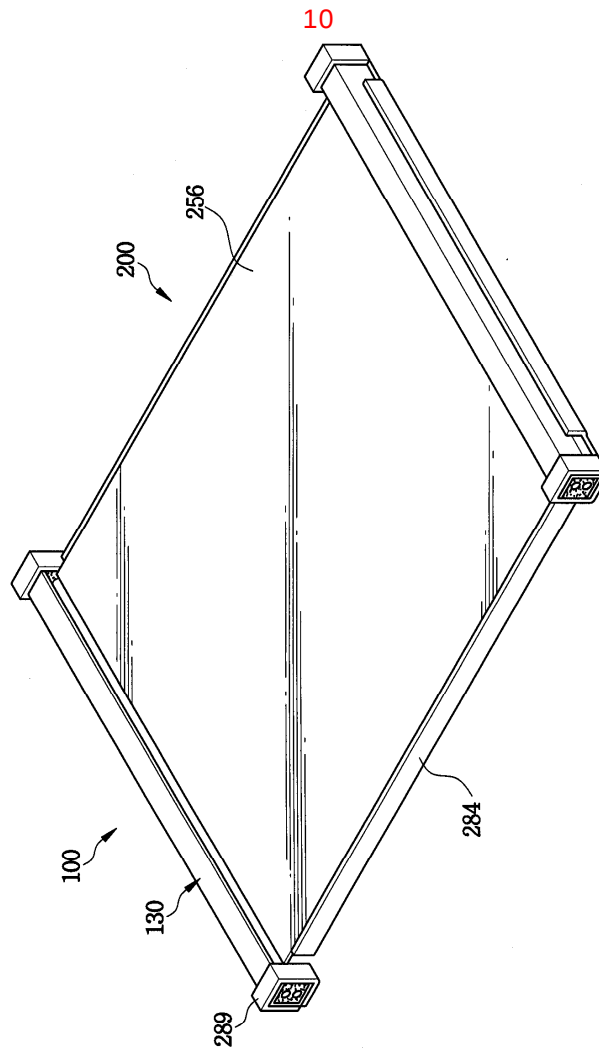


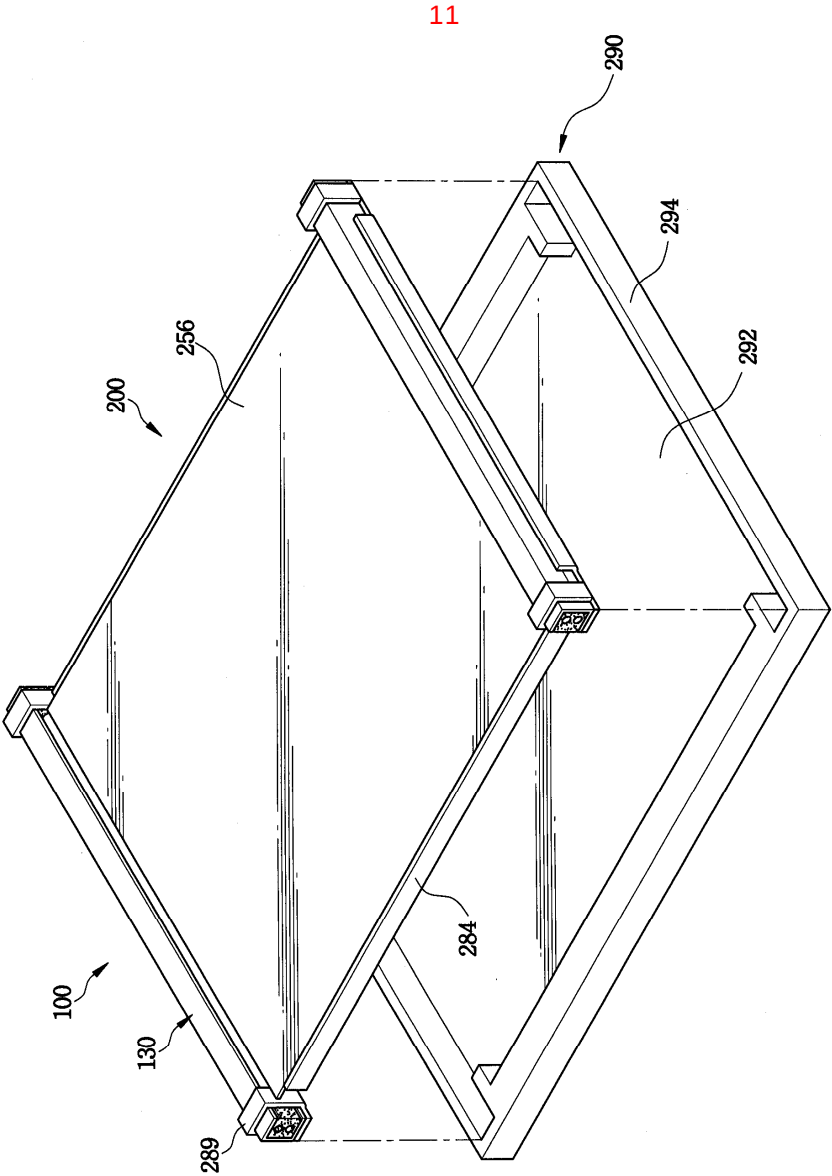
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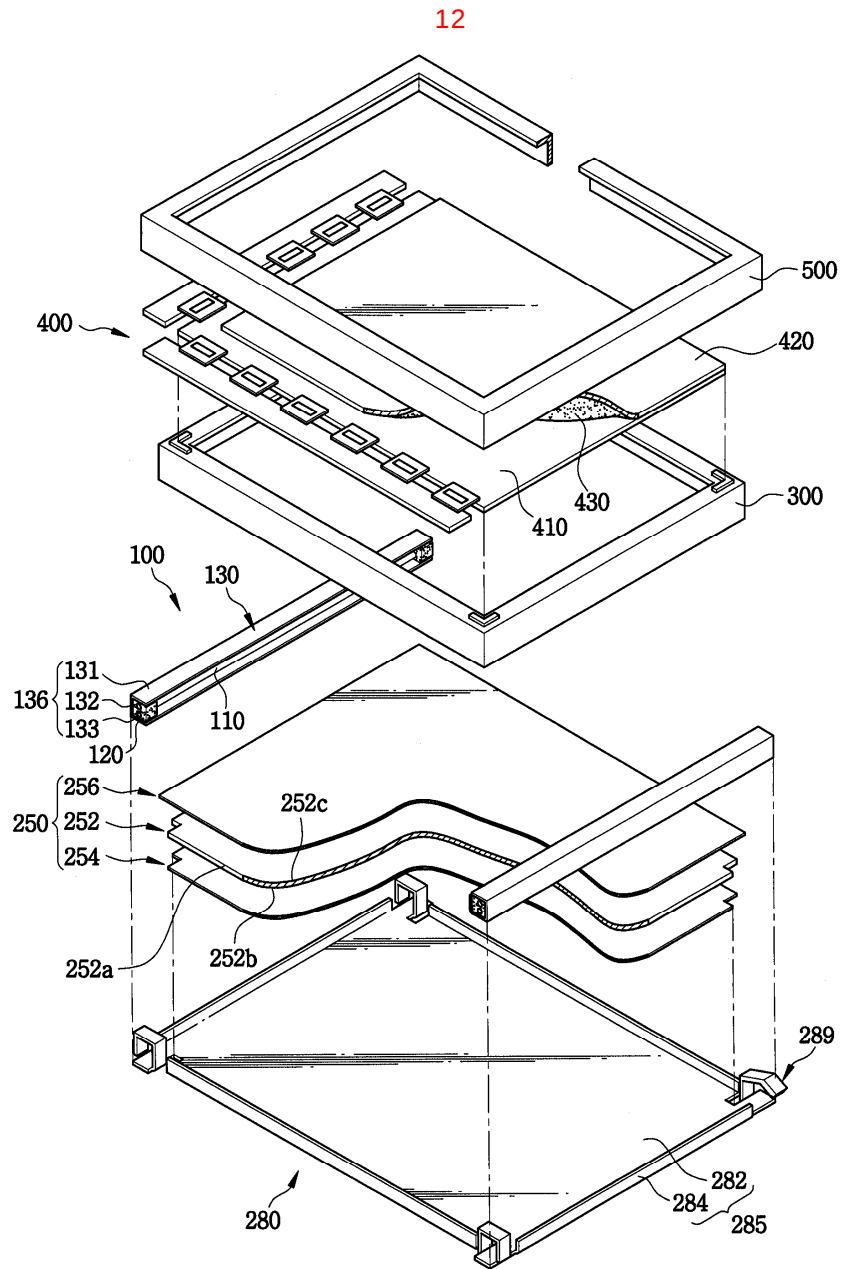


9









专利名称(译)	光源组件，背光组件和具有该光源组件的液晶显示器		
公开(公告)号	KR1020050001725A	公开(公告)日	2005-01-07
申请号	KR1020030042006	申请日	2003-06-26
[标]申请(专利权)人(译)	三星电子株式会社		
申请(专利权)人(译)	三星电子有限公司		
当前申请(专利权)人(译)	三星电子有限公司		
[标]发明人	KIM YONGIL		
发明人	KIM,YONGIL		
IPC分类号	G02F1/13357 F21V8/00 F21Y103/00 F21V29/505		
CPC分类号	G02F1/133615		
代理人(译)	PARK , YOUNG WOO		
其他公开文献	KR100981617B1		
外部链接	Espacenet		

摘要(译)

公开了一种光源组件，用于防止由光产生的愤怒直接传递到光学构件，以及具有该光源的背光组件和液晶显示器。在光产生单元中，辐射单元布置在光学构件和光产生单元的间隔中，使得由光产生的愤怒被直接传递到连接到光产生单元的光学构件。它从光产生单元延伸并形成辐射单元，或者从接收容器延伸，其中接收光产生单元和光学构件。随着辐射单元从光产生单元传递到光学构件的愤怒减少，并且光学构件的形状变化减小。它防止了液晶显示器中产生的显示质量下降。液晶显示器，光产生单元，导光板，辐射单元。

