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(22)2002 07 26

(71)

416

(72)

474-301

11675523-1405

4 810-22 1210

201-2102-306

(74)

:

(54)

가 .

가 가 .

, 가 .

2

,

2	1	-	.
3	1		.
4	2	.	
5	2	.	.
6	3	.	
7	6	.	
8	4	.	
9	8	.	
10	4	.	.
11	TFT	.	

(wrinkle)

(Liquid Crystal Display device, LCD) (Liquid Crystal)

(Cold Cathode Fluorescent Lamp, CCFL)가

(optical sheet)

heet), 가 가 (prism sheet) (diffusion s
(Light Guide Panel, LGP)

(pixel) , 가

,
 , 가 가 , 가
 (wrinkle)
 ,
 가 , 가 , 가
 ,
 , 1 가 가
 3 가 가
 ,
 1 1 , 1 1 , 2 , 1
 3 2 1 , 2 , 1 가 1
 2 가 , 가
 , 2 1 , 1 1 , 2 , 1
 2 , 2 , 1 1 가 1 3
 2 , 2 , 1 , 가 가
 가 , 2 3
 , 가
 ,
 ,
 ,
 < 1 >
 1 1
 1 , (100)
 (100)

(100)

1

(100)

가

가

1

.

(100)

(100)

.

.

1

(100)

(110),

(120)

(130)

(110)

(100)

,

(120)

(110)

(edge)

가

(110)

.

,

(120)

(110) 4

,

(120)

(125)

(125) (boss)

(110)가

.

,

(100)

가

.

(110)가

,

(100)

(wrinkle)

.

(110)

(100)

.

,

(100)

(120)

(125)

.

,

(100)가

,

가

(100)

(100)가

,

(100)

(100)

가

.

(100)

(130)

(100)

.

2

1

-

.

2

,

(130) 3

,

가

.

(130)

(134),

(134)

1

(134a)

1

(132)

(134)

1

(134a)

2

(134b)

2

(136)

.

(134)

(134)

가

가

,

가

.

1

(132)

(120)

,

2

(136)

(120)

.

,

1

(132)

2

(136)

.

,

2

(136)

(120)

1

(132)

,

(130)

(120)

(100)가

,

(slide) 가 .

(125) (125) (130) 1 (120)

3 1 .

3 , (100)가 (100) (110)
(120)

, (100) (130) 1 (132) 2 (136)
(100) (130)

, (130) (134) 1 (132) 2 (136) (100)
(134) (100)가

, (134) (100)가 (100)

, (134) (100)가 (100)

130) (134) (

< 2 >

4 2 .

, 1 2 (100) (130)

4 , (137) 가 가

5 2 .

5 , (100) 가 (110)
(120)

, (100) (137) (100)
(137)

(137) (110)가 (110)

, (137) (110)가 (110)

137) (

2 (137) 1 (130)

, 2 (137) (134) 1 (132)
(136) (130)

2 (136) 1 (137) (134) (130)

< 3 >

6 3 . 7 6

6 7 , (700) 1 (200), (300), (400),
(100), 2 (500)

1 (200) (210) (210) (230)
 (220) (220) 221, 223, 225 227 .

(220) 2 (223, 227) 2 (223a, 227a)
 (223a, 227a) (230) (223, 227) .

(223a, 227a) (223b, 227b)가 .

1 (200) (300) (400)가 .

(400) 1 (410), (420) .

(410) 1 . ,

410 .

(410) , , 1

(420) (410) 1

(410) (420) (410)

(300) (400) 1

2 .

, (300) 4 (330), (330) (310) (320)

(300) (410) 1 , 2 .

(310)

300) (300) 1 가 2 (310) (

(330) (400)가 .

, (300) (310) 2 (310) (310)

(310)

2 .

(100) (300) (310) (300) (310)

2 .

(100) 1 , 3 .

(100) 1 (160) 2 (170) .

(160) (300) (310) 2

2 1 3 .

(170) (160) 3 2 3

(300) (310) .

(160) (170) (100) (110),

(120) (130) .

(120) (125) , (120) 1

(200) .

b,227b) , (120) 1 (200) (223a, 227a) (223

(130) (120) (130) 2

(134) 1 (134a) (134), 2 (134b) 1 (134a) 2 (136) 1 (132)

(130) (100) 가 가 .

2 , (130) (134) (134)

가 , 가 .

1 (132) 2 (120) , 2 (136) (120)

(500) .

, 4 (137) 가 가 .

, 2 (500) 1 (200) (400), (300), (100)가

가 .

, 2 (500) 가 가 .

, 2 (500)가 1 (200) 2 (500) 2 ,

(100) (130) 2 (136) 2 (500) . 7 ,

(130) 2 (136) 2 (500) .

< 4 >

8 4 . 9 8 .

8 9 , (1000) (700), (800)

(900) .

4 1 3

, .

10 4 . 11 TFT

10 11 , (800) TFT (810), (820) (83

0) .

TFT (810) 1 (811), (812) (813) .

(812) 1 (811) .

(812) (812a), (812b), (812c) (812d)

(812a) (812b) (812e) . (812b) (812a)

(812e) (812a) .

(812) (812a) 11 (814)

, (812c) 11 (816) .

, (813) (812) (812d) (813)

(Indium Tin Oxide, ITO) (Indium Zinc Oxide, IZO)

10 , (820) 2 (821), (823) (825) .
 2 (821) (823)가 (823) T
 FT (810) (813) (825) (823)가
 2 (821) .
 (810) (800) TFT (810) (820) TFT
 (820) (830) .
 9 , (900) (800)가 2 (500) ,
 (800) 가 , 1 (200) .

가
 가
 가

(57)

1. 1 ;
 1 1 , 1 2
 1 ;
 2 3 , 2 ;
 1 2 ;
 가 2 가 .
2. 1 , .
3. 1 , .
4. 1 , 2 1 2 .
5. 1 , 2 1 2 .

6.

1 , 가 .

7.

6 , .

8.

6 , .

9.

1 ;

1 1 ; , 1 2

2 1 3 가 1 , 2 ;

1 , 2 ;

가 2 ; 가

2 , 2 3 가

.

10.

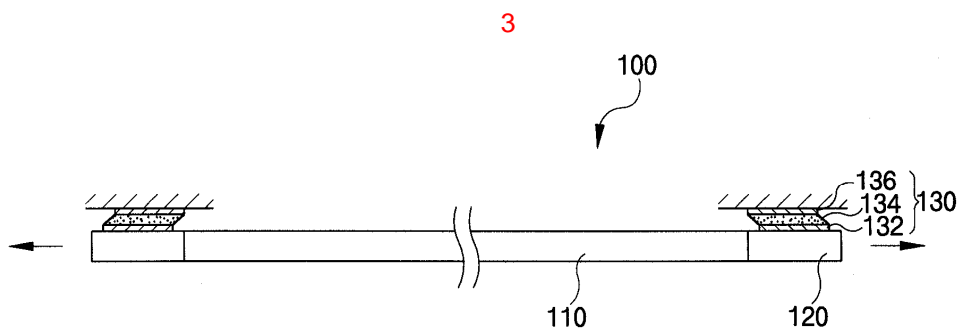
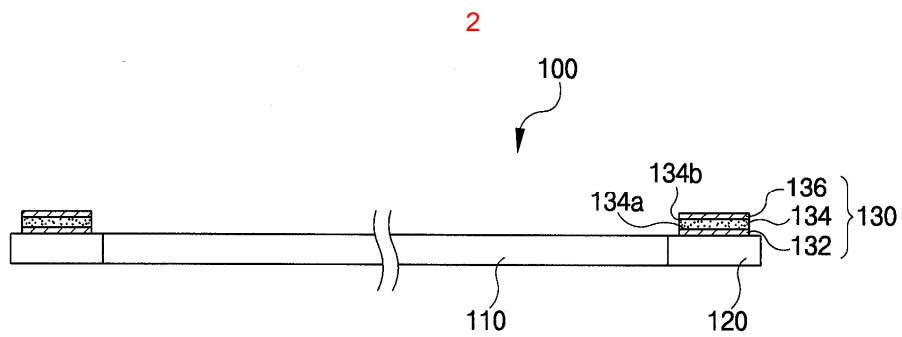
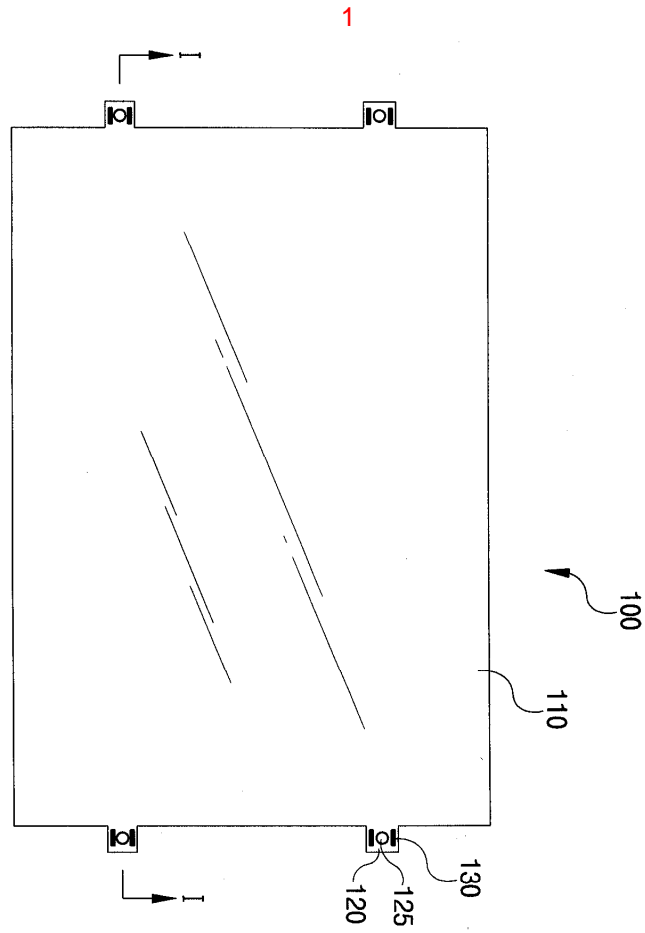
9 , .

11.

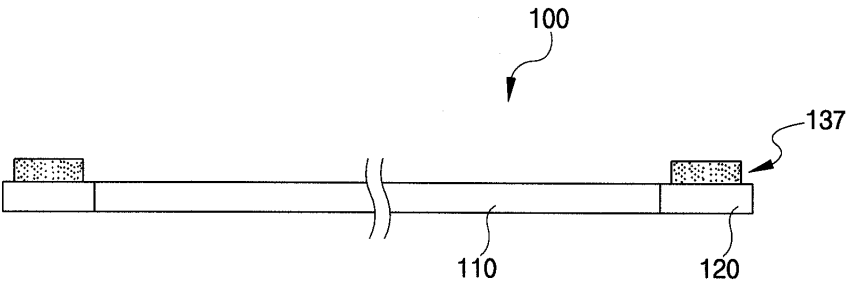
9 , .

12.

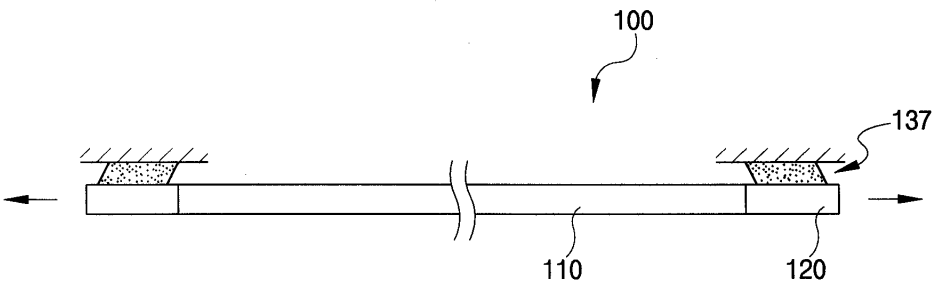
9 , 2 2 2 .

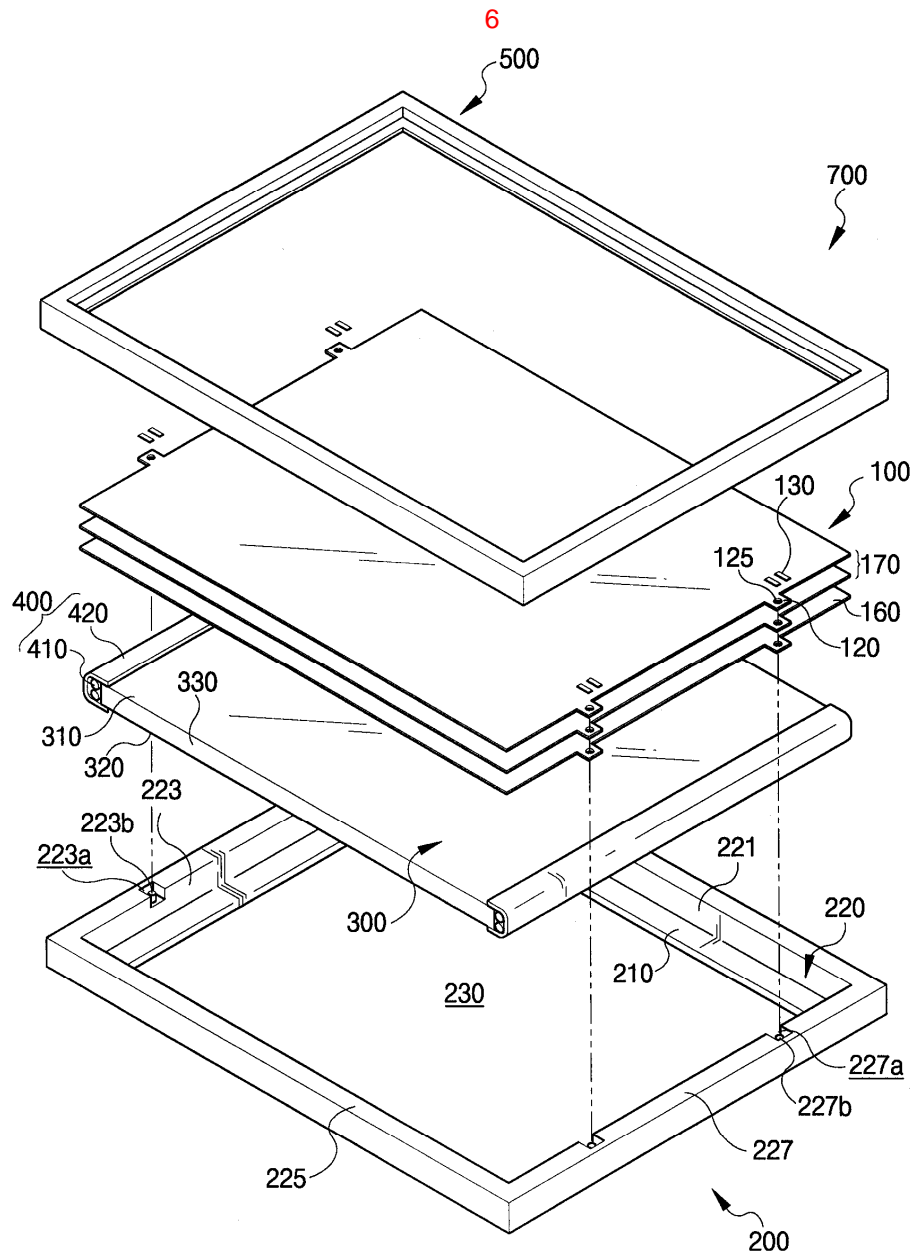


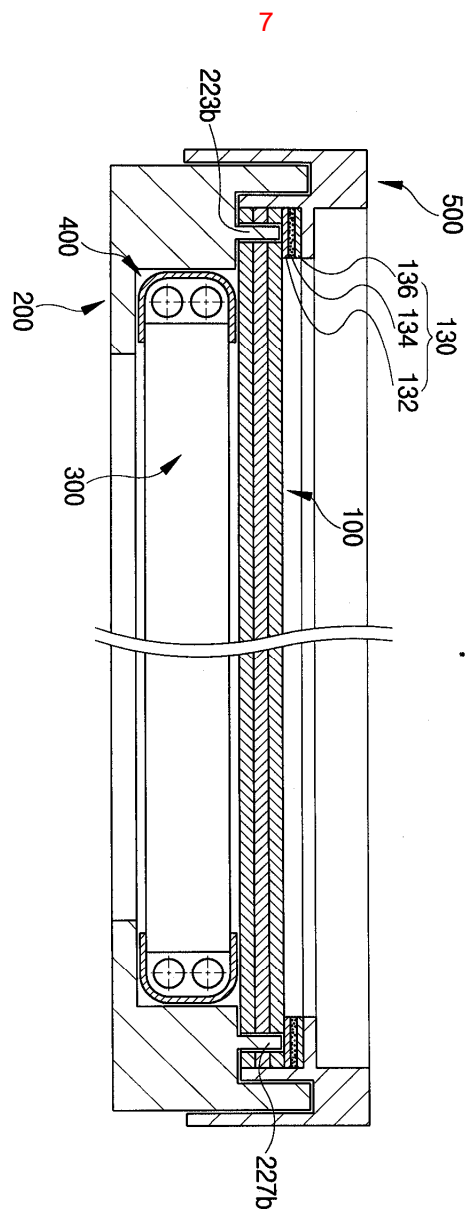
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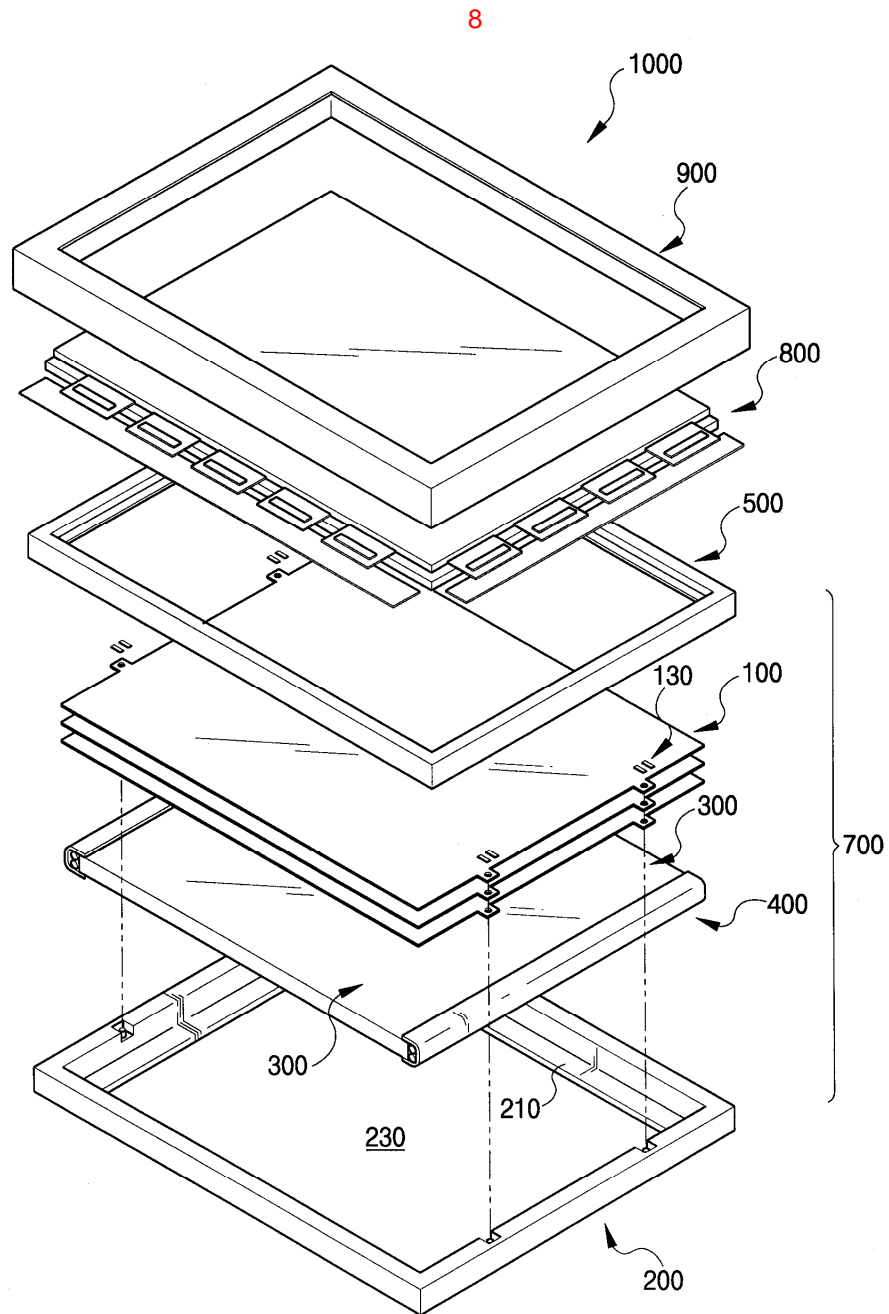


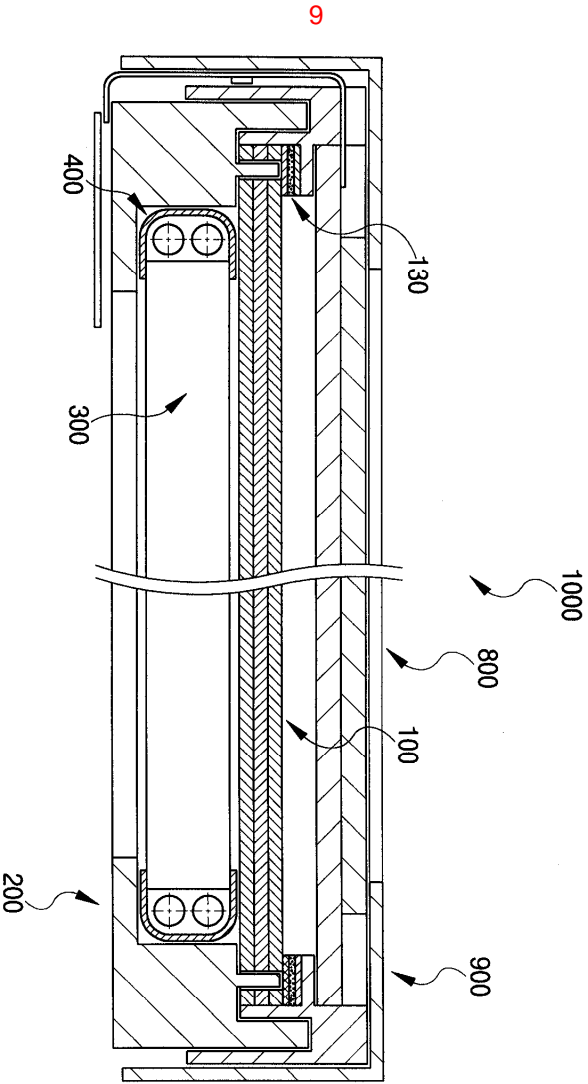
5

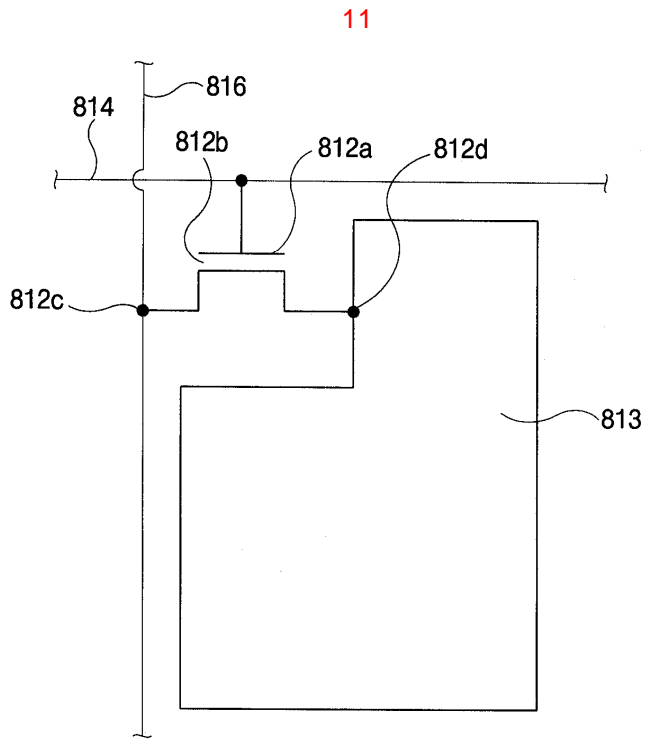
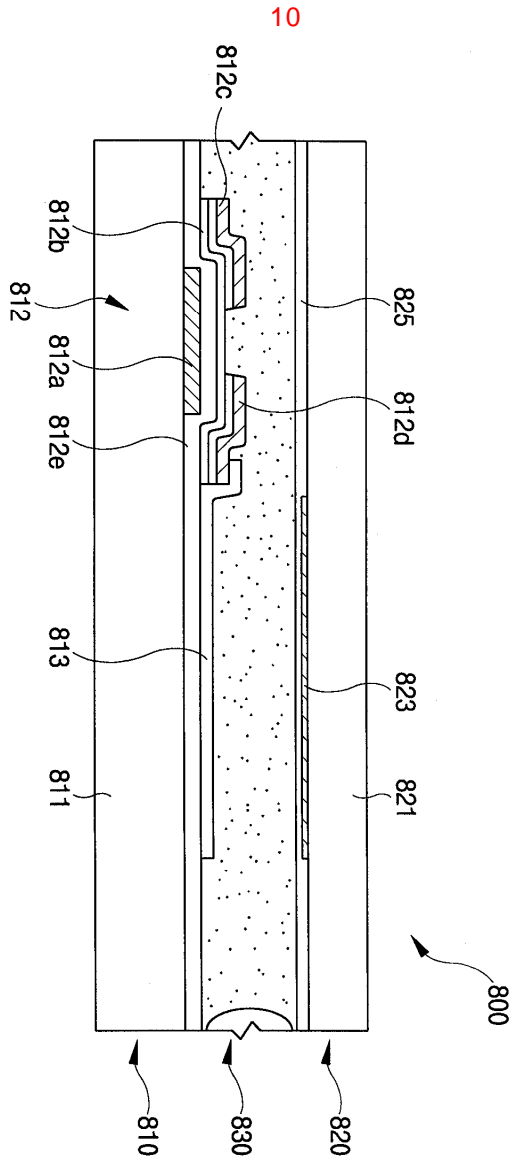












专利名称(译)	背光组件和液晶显示器		
公开(公告)号	KR1020040009902A	公开(公告)日	2004-01-31
申请号	KR1020020044272	申请日	2002-07-26
[标]申请(专利权)人(译)	三星电子株式会社		
申请(专利权)人(译)	三星电子有限公司		
当前申请(专利权)人(译)	三星电子有限公司		
[标]发明人	PARK JONGDAE 박종대 LEE SEOKWON 이석원 CHANG SEIN 장세인 CHA GUYHO 차규호		
发明人	박종대 이석원 장세인 차규호		
IPC分类号	G02F1/1333 F21V8/00 G02F1/13357 G02F1/13 G02F1/1335 F21Y103/00		
CPC分类号	G02F2201/503 G02F1/133606 G02F1/133615 G02B6/0088 G02F2201/54		
代理人(译)	PARK , YOUNG WOO		
外部链接	Espacenet		

摘要(译)

公开了一种背光组件和使用该背光组件的液晶显示器。背光组件和液晶显示装置被配置为固定光学片并且通过使光学片变形来防止外部振动，以便提高由于热膨胀导致的光学片的利用效率和光学特性。吸收成员。因此，由于在光学片和液晶显示板中发生划痕而导致的显示质量的劣化可以与根据从外部施加的片材和振动的显示质量的劣化同时解决。2 指数方面 液晶显示面板，光学片

