

(19)
(12)

(KR)
(A)

(51) 。 Int. Cl. 7 G02F 1/13357	(11) (43)	2003-0035220 2003 05 09
(21)	10-2001-0067193	
(22)	2001 10 30	
(71)	.	20
(72)		302-1004
		47가304-5
(74)		
:		
(54)		

가

가

8b

1

2 1

3 .

4 3 .

5 .

6 5 .

7 5 .

8a 8b 1 .

9a 9b 2 .

10a 10b 3 .

< >

110 : 120 :

130 : 140 :

150 : 211, 212 : V

,

.

(flat panel display) 가 , , (liquid crystal display)가 , ,

,

,

, (backlight) ,

,

(edge) ,

가

,

1 .

1 (12) (13) (13) (11) (11)
(13) (11)
(13) (13)
(14) (16, 17), (13) 1 (15)
(16, 17), 2 (18)
(16, 17)가 2 (16, 17)
(16a, 17a) 가 (16a, 17a)
(16a, 17a) (16, 17)
(16a, 17a) 가 (16, 17)
가
3
3 (21) (21) (22) (23)
(23) (23) (22) 가 (23)
(23) (23a) (25)
(24) (23)
(26) 가
3 (simula-tion) 4
(guide line) 가 (cosine) 가
 ± 30 () 0 가
(cholesteric liquid crystal) (selective reflection) 가
(color filter) 가
(helical pitch)
가 가
(color shift) 가

1 ,
 , 가 ,
 , 2 2 3 2 ,
 , 1 2 (groove) 가 .
 , 1 ,
 , 2 가 , 2
 3 2 ,
 가 , 가 ,
 .
 , (Ag) .
 , 1 ,
 , 2 가 , 2
 3 2 ,
 , 가
 , .
 , 200 μm 300 μm 가 .
 ,
 ,
 ,
 ,
 ,
 5 ((110) , (110) 가 , (120) (140) ((141) (120) (140) , (140) (pre-collimator)(130)가 (130) (110) (140) (131) 가 (132) (140) (140) (150) , (160) (170)가 (140) , (110) 가 (140) , (120) (110) (140) , (140) , (140) (140) (110) (140) 5 (140) 1 (141) 가 , (140) (140) (140) (141) 1 1 1 (140) (150) 1 .

가 7 . , 가

가 ,

() () , ,

가 0 , ± 25 ,

4 ,

가

가 ,

8a 8b 1 , 8b

8a A .

(110)가 가 (120) , (110)

(120) (121, 122) (130)가 (130) (120)

(211, 212) V (groove)(211, 212)가 (130) (130)

150 μm 200 μm , 50 μm 70 μm

(130) V (211, 212)가 (

) , (UV : ultra-violet) .

V

μm cm , 가

가 .

2 9a 9b .

9a 2 , 9b 9a B

9a , (110)가 가 (120) , (110)

(120) (130)가 (130)가

(120) (hole cover)(310)가 (310)

(Ag) .

(120) 9b , (130) (120) (122

(130) 가 (220) , (121) V (211)

(211) , V (130) (130) V

(220) 150 μm 200 μm , 50 μm 70 μm

(130) V (211) (220) (

) , (130) (

120) .

3

10a 10b , 10b 10a C .

10a 10b (110)가 가 (120) ,

(120) (121) (122) (D, E) 가 (D, E) (1

30)가 (130) (120) (a) (130)

(120) (b) , (130) a , (D, E)

;

,

가 ,

가 ,

.

3.

1

(Ag)

4.

1

;

가

;

2

;

2

3

2

;

;

;

,

가 ,

.

5.

4

200 μm

300 μm

가

.

6.

1

2

4

,

.

7.

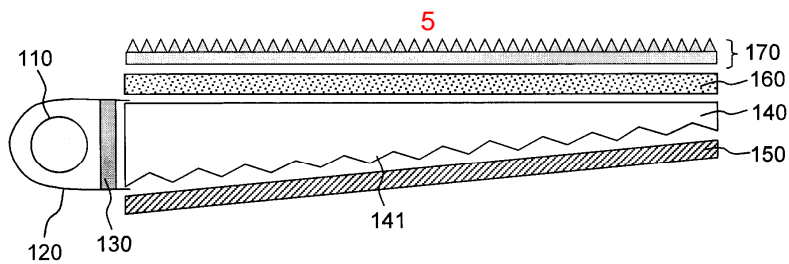
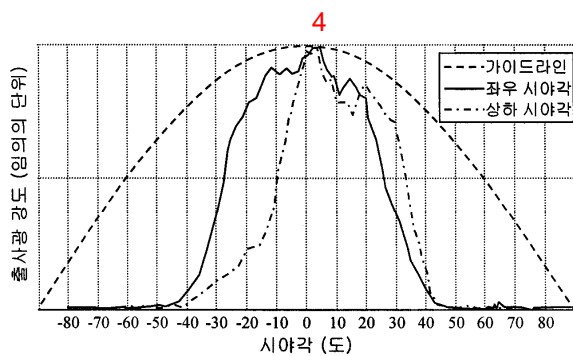
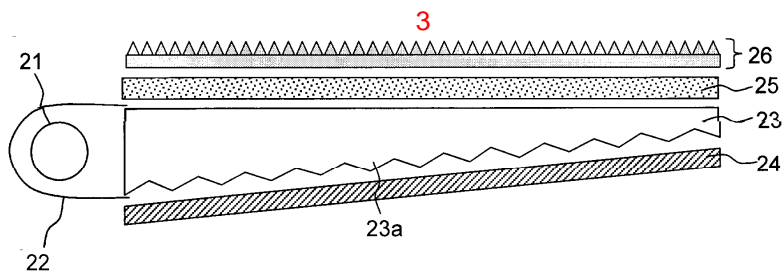
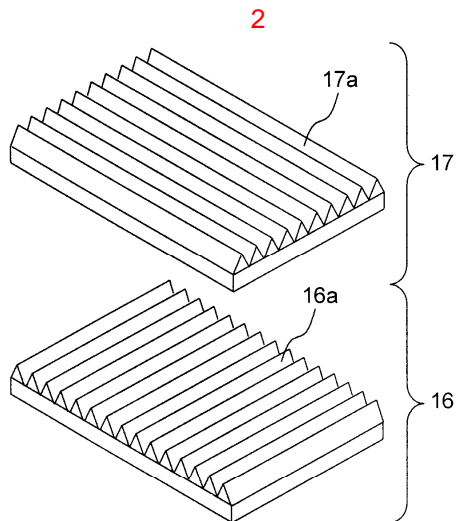
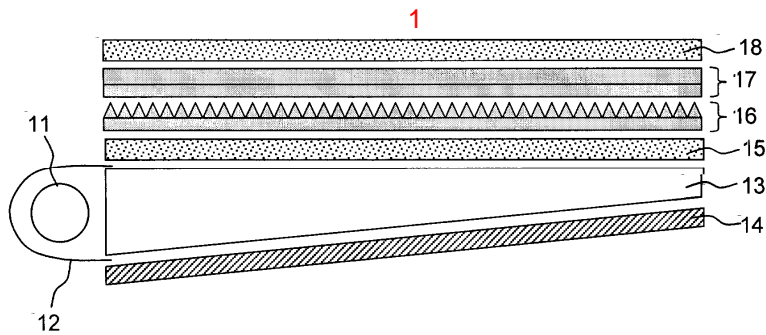
1

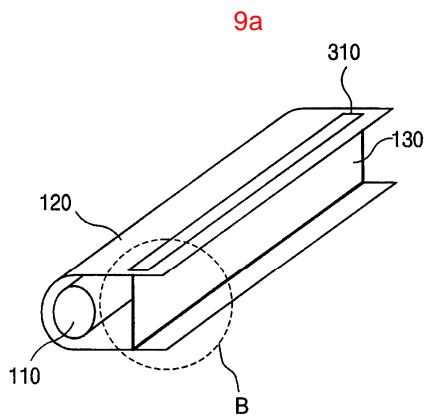
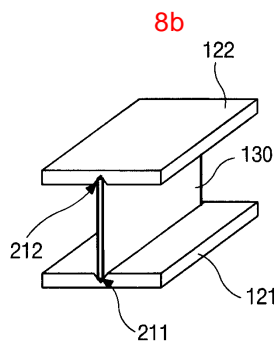
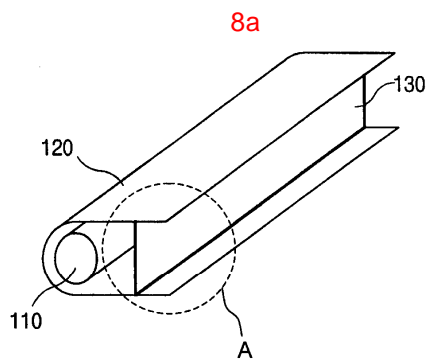
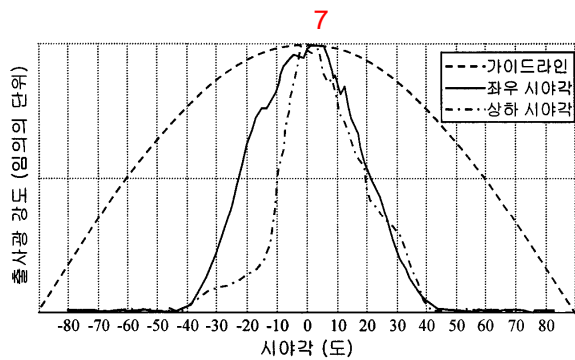
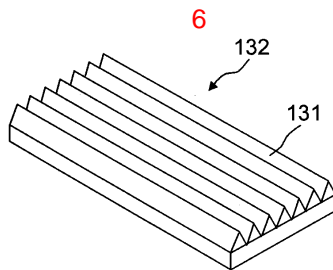
2

4

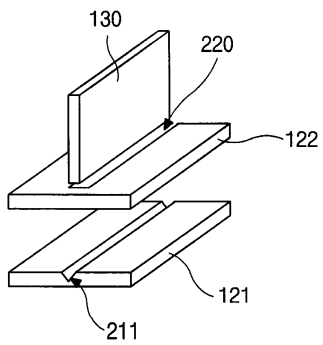
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.

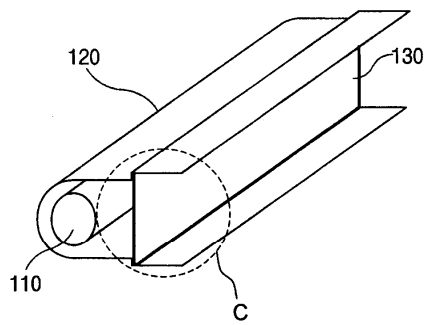




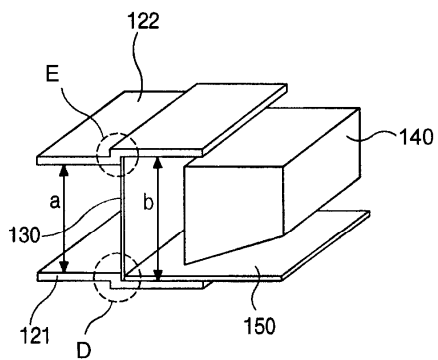
9b



10a



10b



专利名称(译)	LCD背光		
公开(公告)号	KR1020030035220A	公开(公告)日	2003-05-09
申请号	KR1020010067193	申请日	2001-10-30
[标]申请(专利权)人(译)	乐金显示有限公司		
申请(专利权)人(译)	LG显示器有限公司		
[标]发明人	KIM JEHONG 김제홍 JEON SEONGMAN 전성만		
发明人	김제홍 전성만		
IPC分类号	G02F1/13357 F21V8/00 G02B6/00		
CPC分类号	G02B6/0023 G02B6/0038 G02B6/0046 G02B6/0051 G02B6/0053 G02B6/0055 G02B6/0071 G02B6/0091		
其他公开文献	KR100764592B1		
外部链接	Espacenet		

摘要(译)

液晶显示器用背光源的结构技术领域本发明涉及液晶显示器用背光源的结构。背景技术近年来，研究开发了使用非印刷型导光板的背光源，以减少用于背光的膜的数量并降低成本并增加聚光度。为了提高液晶显示装置的亮度，需要更加浓缩的背光。根据本发明的用于液晶显示器的背光通过使用非印刷型导光板并在光源灯和导光板之间布置前面的光收集器而在灯壳中具有诸如凹槽或孔的结构，从而可以提高背光的会聚程度，并且可以降低制造成本和体积。图8b 指数方面 背光，强烈冷凝，铅浓缩器，凹槽

