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(43)2003 - 0027732
2003 04 07(21) 10 - 2002 - 0058237
(22) 2002 09 25

(30) JP - P - 2001 - 00293960 2001 09 26 (JP)

(71) 가 가
5 7 1

(72) 5 7 1 가 가

(74)

:

(54)

(100), (105), (100) (105)
 , 가 가 ;
 (101) (107/108) 가 ; (101)
 107/108) ; (107/108) 가 ,
 (107/108)

7

, , , , ,

1			.
2			.
3		9 - 304617	.
4		9 - 304617	.
5		9 - 304617	.
6		9 - 304617	.
7			.
8			.
9a			.
9b	9a	A - A7	.
10			.
11			.
12			.
13			.
14			.
15			.
16			.
<		>	
100 :			
101 :			
105 :			
106 :			
107/108 :			

1 .
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 1 가 . 2 . 2
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 가 " " . 1 2
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 3 . 3
 가 . 3 " "
 가
 가 , , 가 , ,
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 . 1
 , " " . , 2
 " " . 가
 ,
 가 , ,
 .
 1 2
 (1/2/3/6/7/8), (4) (5) . (1/2/3/6/7/
 8) (4) (5)
 ,
 (1/6 2/7/8) (3) . (1/6)
 (2/7/8) , (3) (1,6 2/7/8)
 (6) (1) . 1 2 ,
 (6) , (1) (6)

(2), (7), (8) (((7) (8) , (2) (8) (7) (8) .

(1) (4) 가 가

가

가 (4) , (3) 가 (3) 가 , 가

9 - 304617

5

가

3, 4, 5 6 (9a, 9b, 9c 9d) (9a, 9b, 9c 9d)

(9a) (9e) 가 , (9f) (9f) , (9a) , (9e) 2 (9e)

9f)

(9f) 2 (5)

(9b) (9e) 가 , (9h) (9e)

(9c) (9e) 가 , (9i) (9e)

(9d) (9e) 가 , 가 (9j) (9e)

(9a 9d) / (9f/9h/9i/9j) , 20 5

(9f/9h/9i/9j)

1

/

50

400

2

3

(9f/9h/9i/9j)

5

200

가

(9f)

7.5

82.5

(9f)

200

(9f)

30%

35%

가

가

가

가

가

가

가

가

가

35%

가

가 1

1

2

1

2

1

1

, 가 :

가 ;

,
.

< 1 >

7 8 , (100), (10
1) (105) . (100) (106) 가 , (101)
(106) . (105) (101) .

(101) , (107/108) , (107/108)
(106) (107/108) / (100) (107/108) .
(107/108) /
, (107/108) (101) .

, (105) (100) (101) .
(101) (101)
(9f/9h/9i/9j) , 가 ,
(9f/9h/9i/9j) .

(101) . 9a 9b (100)
(100) .

(100) (100a/200), (), (109) (7 8
) (20) . (100a) (200) .
(109) (100a 200) , (109)
(100a/200) (109) , .

(106) (100a/200) , 가
(100a/200) 가
(106) / 가
(106) .

(100a) (110) , (100a) (112)
(113) . (112)
(112) 112 . (100a) .

(112) (103) (114) , (115) (114) .
 (115) (115) (112) , ,
 (115) . , (114) SiNx , 가

(115a), (116), (117) (118) (114) .
 (116) (115) , (7) (115)
 (114) (116), (117), (118) (112),
 (115)

(117) (115a) , (115a) 가 . ,
 (116) (118) . (112)
 (115a) (118) . (112)
 , (118) .

(116), (117) (115a) , (chromium)
 , (118) , (118)
 (113) .

(115a), (116), (117) (118) (120) ,
 (120) (121) . (102) SiNx
 (122) (123) (110) . (123)
 , .

(200) (210) . (210) . (210)
 / (220/225) (240) . (240) (230)
 (220) 가 , (118) (113)
 . (225) . (225) ,
 (220) (225) (245) , (245) SiNx
 (245) (25) .

(121/250) , (121) P
 , (250) Q (20) (20)
 20) P, Q (122) 가 (20)
 , (230) (100a) . (230)
 122 230) 7 8 (100) . (230)

, (118), (225) (20) .
 , (23) ,
 가 (112) . (115a) 가
) 가 (118) .

(112) , (118)

(113) , (118) (113) 가 (118) (20)
 , 가
 (110a) (118) (113) 가 " "

7 8 , (101) (9 10) (9 10)
 (9 10) (122) (9 10) (9 10)
) ITO (

(9 10) (107 108) (107/108)
 (ridgeline) (107/108)
 (9 10) (107/108) (9a) (9f) (3).

(9) (122) , (107) (10)
 (107) , 가 (10)
 (9) (10) (105)
 (108) (105) (9/1
 0) 가 , (106) (107/108)

가 (118) 가 , (20)
 (105) (100) (101)
 (9) , (107) 가 (9)
 (10) (107)
 (106) 가 (100)
 108) 가 (100)
 (106) 가 (107/108) (9a)
 (108) , (100)
 (101) (108)
 (9a)

, 가 (106) 가 , (105)
 , 가 (101) 가 (10, 9) (100)
 , 가

(9a) . (101) .

, (107/108) , (108) (107) , (101) (106) 가

가 .

(107/108)

(101) 가 , .

, (9 10) , (9) (108)

.

< 2 >

10 11 , (300), (302) (304) . (300) (304) 1 .

(302) , (306/308) (302)

(302) , , (306/308) , (302)

ITO / (306/308) (122) (304) (306/308) (107/108) , (302) (304) (302) . (302) 가 .

02) , (302) , (306/308) .

가 . (300) , 가 (306) (106) (300) (302) , 가 (308) , (302) (300) , 가

(304) , (304) 가 (302) .

가 (300) , 가

(306) (308) . (306) 가 , (308)

가 , (306/308) .

가 , (302) 1 , 가 .

가 ,

가

가

(11 10)

0a) (200) 가 (118) (10

(123) (210) (230)

4 가

(101) (302)

5 12 (400) 가

13 (401) 가 6

가

14 (410) 가

15 (420) 가

16 (430) 가

(122)

가 , (122)

(122) (122)

(122) 가

(57)

1.

1 (101; 302) , 2

1 2 , 1
1 (9/10; 302) ,

(9/10; 302) (waved surfaces) (107/108; 306/308) 1

2.

1 (9/10) , (107/108) (9/10) ,

3.

2 (107) 1 1 (sub - directio
n) (108)
1 1 2

4.

2 (107/108) (triangular prisms) (10
9f; 9h) , (107) (10
8)

5.

2 (triangular pyramids) (400), (quadrangular pyramid
s) (9i), (semi - circular columns) (401), (hemispheres) (9j), (circular cones) (410), (fr
ustums of circular cones) (420) (frustums of pyramids) (430)

6.

2 (107/108)

7.

6 , (9) (107)
 가 , (10) (107)
 (108) 가
 .

8.

1 , (306/308) (30
 2) .

9.

8 , (306/308) .

10.

9 , (306/308) .

11.

8 , (306/308) 1
 .

12.

8 , (306/308) (prisms) (9f) ,
 .

13.

가 ,
 (106), (106)
 (106) 가 (100; 300);
 (20) (100; 300) (105; 304);
 (100; 300) (105; 304) ,
 (101; 302)
 (9/10; 302) (101; 302)
 ,
 (9/10, 302)
 (107/108; 306/308)
 .

14.

13 , (100; 300) .

15.

14 , (100; 300) (in - plane switching type) (112/113
/115/116/117/118/20) .

16.

13 , (230) (101; 30
2) (122) , (122) (123)
(100a) .

17.

13 , (9/10) (9/10) ,
(107/108) .

18.

17 , (107) 1 (108) 1
1 2 , 1
.

19.

13 , (9f, 9h), (400), (9i), (401), (9j),
(410), (420) (430) .

20.

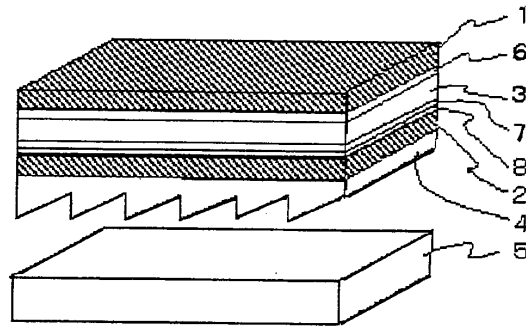
13 , (107/108; 306/308) .

21.

13 , (302)
.

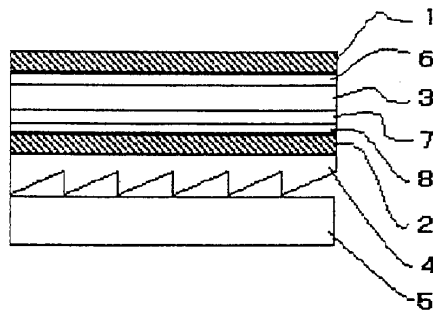
1

(종래 기술)



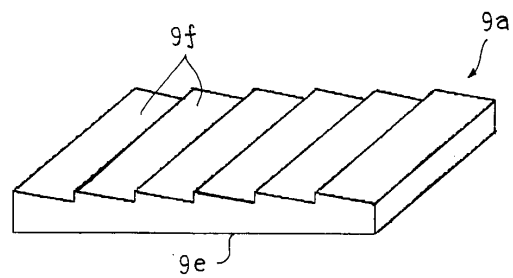
2

(종래 기술)



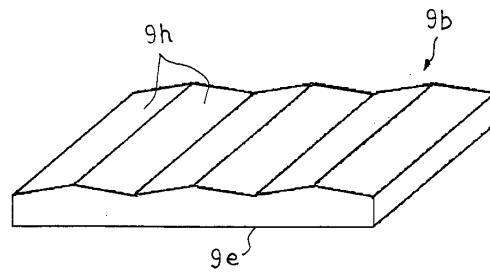
3

(종래 기술)



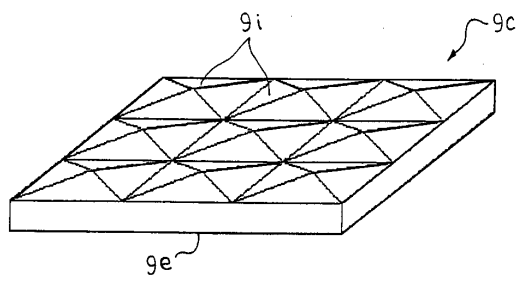
4

(종래 기술)



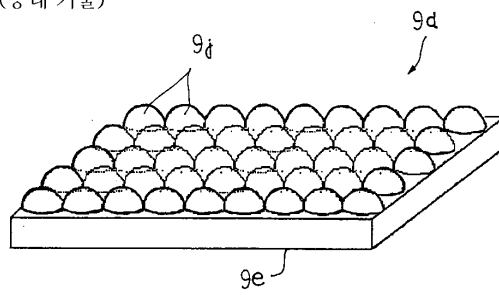
5

(종래 기술)

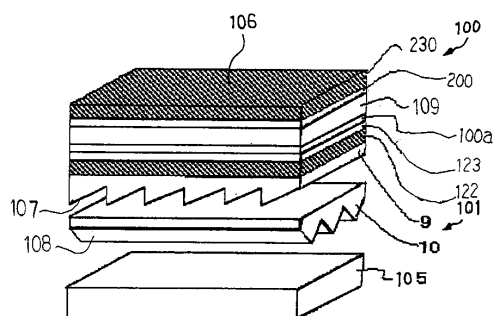


6

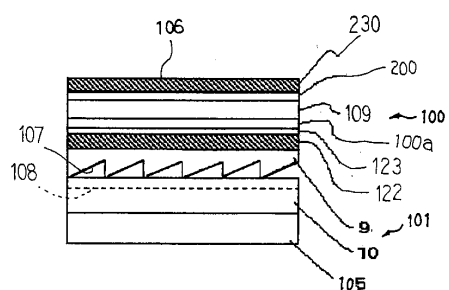
(종래 기술)



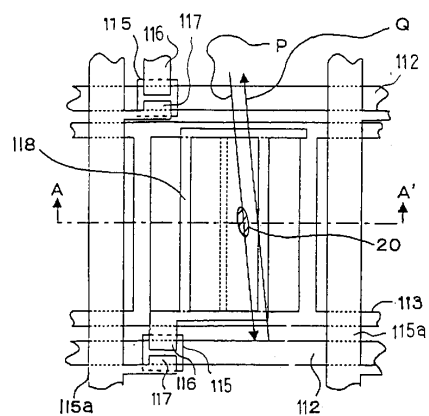
7



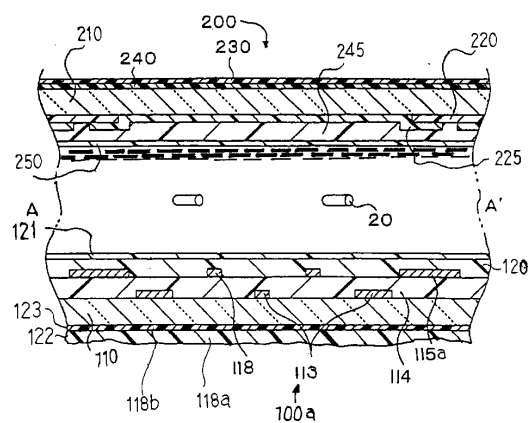
8



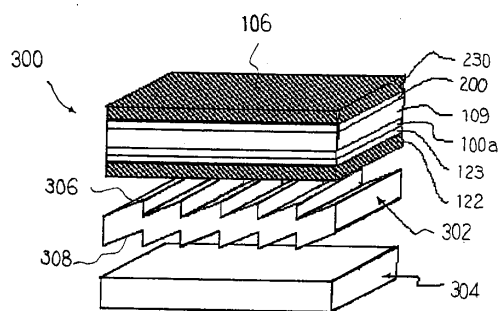
9a



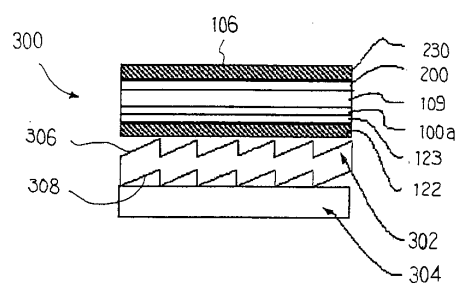
9b



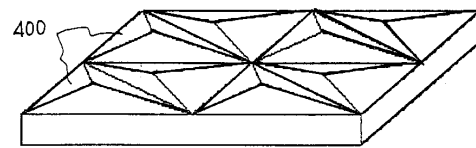
10



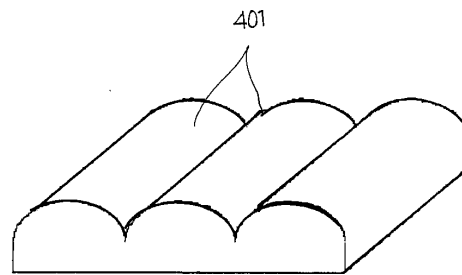
11



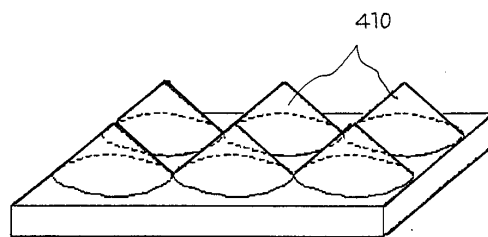
12



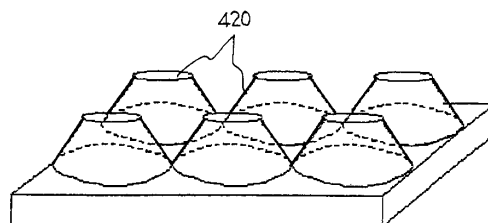
13



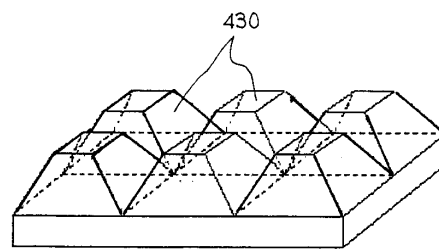
14



15



16



专利名称(译)	一种具有多个反射表面的透反板和使用该透射板的液晶显示器		
公开(公告)号	KR1020030027732A	公开(公告)日	2003-04-07
申请号	KR1020020058237	申请日	2002-09-25
[标]申请(专利权)人(译)	NEC液晶技术株式会社		
申请(专利权)人(译)	日元号技术可否让这个夏		
当前申请(专利权)人(译)	日元号技术可否让这个夏		
[标]发明人	FUJII GEN		
发明人	FUJII,GEN		
IPC分类号	G02F1/1335 G02B5/04 G09F9/00 G02F1/13357		
CPC分类号	G02B5/045 G02F1/133555		
代理人(译)	CHANG, SOO KIL		
优先权	2001293960 2001-09-26 JP		
其他公开文献	KR100511036B1		
外部链接	Espacenet		

摘要(译)

半透射液晶显示LCD面板 (100) , 并且组合背光单元 (105) 与LCD面板 (100) 和背光单元 (105) 之间的透射反射板 (101) 。虽然透射反射板 (101) 没有涂覆高反射低渗透率的金属层, 但环境光和背光产生选择性使用的可见图像并具有两个不均匀性 (107/108) , 而不均匀性 (107) / 108) 并且空气作用在反射表面上, 并且每个反射表面 (107 / 108) 的反射率小于涂有高反射率金属层的反射表面。仍然用两个反射表面 (107/108) 增加反射环境光的总量。它被改进, 因为在透射率方面, 金属层被除去。半透射液晶显示器, LCD面板, 背光, 反射器, 反射率, 透射率。

