

(19)
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G02F 1/1335

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(11)
(24)

2004 05 22
10-0432644
2004 05 12

(21) 10-2001-0068900
(22) 2001 11 06

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10-2002-0035764
2002 05 15

(30) JP-P-2000-00340171 2000 11 08 (JP)
JP-P-2001-00088101 2001 03 26 (JP)

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(72) 5 7 1 가 가
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5 7 1 가 가
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(74) :

(54) ,

가 , 가 ,

(), , ,

1
 2a 1 , 2b 1
 3 2a 2b ,
 4a ,
 4b ,
 5 2a 2b ,
 6 5 ,
 7 6 ,
 8a 8d 1 ,
 9 1 ,
 10 ,
 11 ,
 12 ,
 13 ,
 14 ,
 15 14 .

()

가

가

(LCD) 가

가

가

(2825713).

14

(1) ,

(3) (2)

(2) ,

15 14

15

(Li)

(2)

(Lr)

()

가

()

(2)

가 가

가

가 , 가

가 , 가

1 (11), (11) 1 (12), (11) (11), (13) 가 (11) (TFT)가

(20) 가 (14), (15) (15), TFT(16), 1 (17), (18), 2 (19) TFT(16) (16a) (16a) (15) TFT(16) (16b), (16c) (16d) 가 (16d) 가 (16d) (18) (15) TFT(16) 1 (17) TFT(16) (16d) (16d) 2 (19) (18), 1 (17) (16d) (16d) (21) 2 (19) 2 (19) (20) TFT(16) (16b) (16d) 가 (20) (23)가 (11) (14) (22) (22) (12) (24), (25) (26) 가 (13) (11) (26) (12) (Li) (12) (13) (20) (Lr) (13) (13)) 2a 2b 1 (24) (12) 2a 2b (18) (; 20) (가) (2a) (2b) (18) , (20) 가 (10) 가 (20) 가 (18) 3 2a 2b (S) (Li) (20) (Lr) (18) 3 (P) (20) (18) (Li) (P) (가) (18) 가 (Li) (P) (Li) (P) 가 (10) (20) 가 ()

가 (10) 가 (S) (P)가 (10) (2)

가 (P)가 (10)

(Li) 0 (Lr) -10 +20
 (Li) (Lr) (P) (S) 40 (-20 +20) 가
 (20) (360) 가
 +20 -20 (20) +10
 20% (20) (18, 2)
 (27) (27) [], r
 (< -20 > 20, -20 20)
 (L_{target}), (L_{all}), (Ratio) 1 :

$$L_{target} = \sum_{n=1}^n r_n \cdot \theta \quad (\theta < -20 \text{ 또는 } \theta > 20)$$

$$L_{all} = \sum_{n=1}^n r_n \quad (-20 \leq \theta \leq 20)$$

$$L_{all} = \sum_{n=1}^n r_n$$

$$Ratio = (L_{target} / L_{all}) \times 100$$

33% (1.5) 가 (O) (22%) (22%)
 (20) (18) (a) (f) (1)
 (27)

(c) (20) 34% (6 (a)) (6 (f)) 47% (6 (d)) (6 (e)) 60% (mult)
 100% (18)

7 (a) (f) (6 (a) (f)) (original)

STDhishi, (18, 6 (a) (f)) STDHex1 3, (27, 5 U) STDsikaku, STDUgata1 47가 (18)
 V/U

8a 8d 1 8a 8d , TFT(16) (

8a). (16a) (14) (15) (16b), (16c)

(16d) (15) , 1 (17) TFT(16)

가 1 (17) (20)

가 (8c). (18) (8b).

(8d). (18)

(21) 가 2 (19)

(21) 2 (19) (Al) (20)

(20) Al (20) (1)

, Al TFT ()

(20)

가

(18) ()

2

9 1 9 가 (20)

(Ph) (29) (Pv) 가 가

(29) (Li)

(20) 가 가 가

(가)

가 가

(Li) (P)

(20) (10)가 ()

가 가 (20) 0 가 (18)

가

가

(P) (P)

가 가 (P)

+10 -10 20%

(P) (, 0.5). (18) (1

8) (20) (11

10

가 11

0 360

12

가 , 60 가 . (30) (31)가

12

가 , 11 0 가 , 가 5μm 가 5μm 가

13

(33)

가

13

가 , 11 가 (32) 0 가

T (16)

(14, 8a) (8b). (18,)

8a 8d , TF

가,

(18) (8c). (18,) (21) (19) (19) (19)

1

가

가

가
가

가

가

(57)

1.

가

2.

가

1 3. , , 20% , +10 -10

1 4. , ,

4 5. , 0.5 .

1 6. , , 가

6 7. , , 22%

7 8. , -20 +20 .

6 9. , ,

9 10. , , , U , , V/U , , , ,

1 11. , , 가 가

1 12. , , 가

1 13. 11 , ,

12 14. , ,

13 15. , , 가

1 16. 2 11 1 ;

2 2 ;

17. , , 1 , 2 , 1 2

17 18. , , 가 ,

18 19.

18 20.

17 21.

가

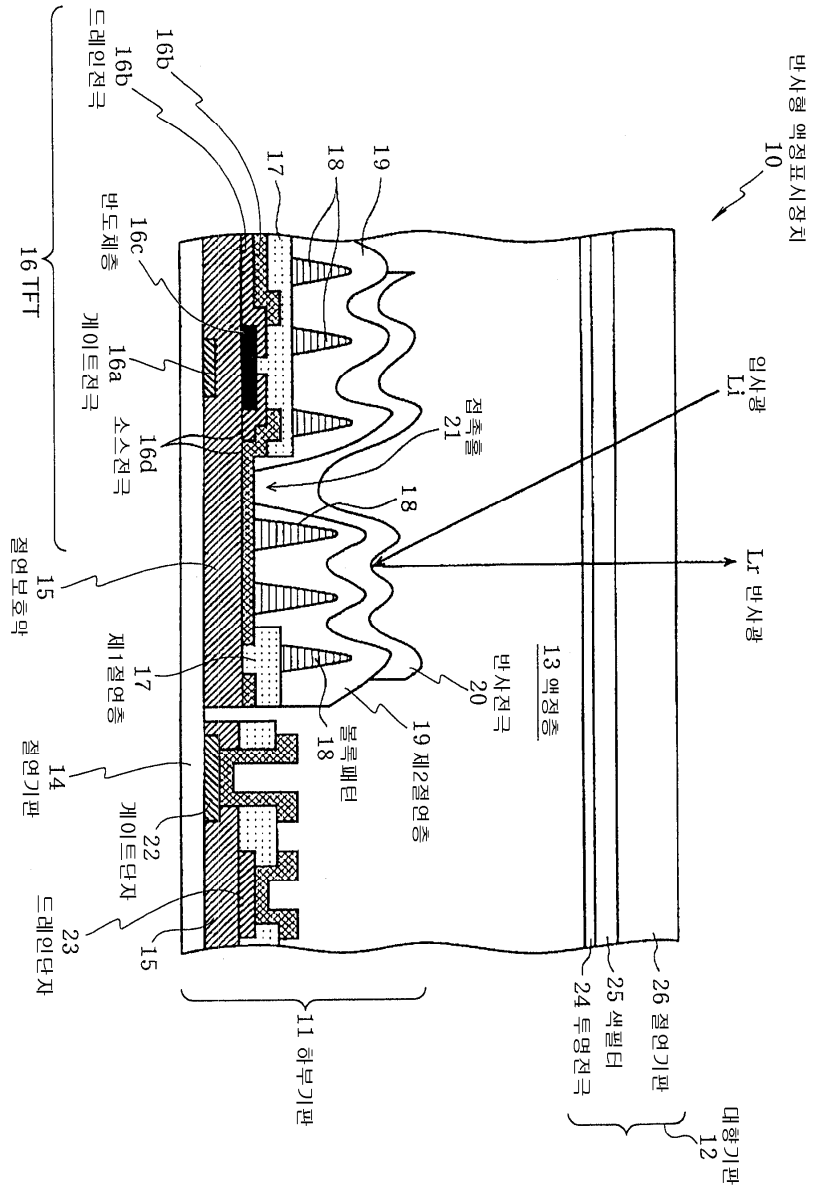
17 22.

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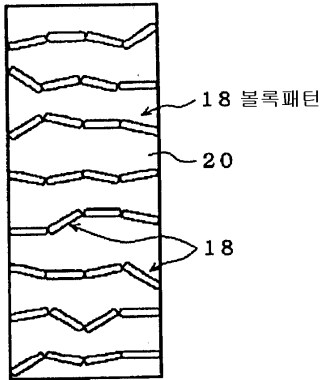
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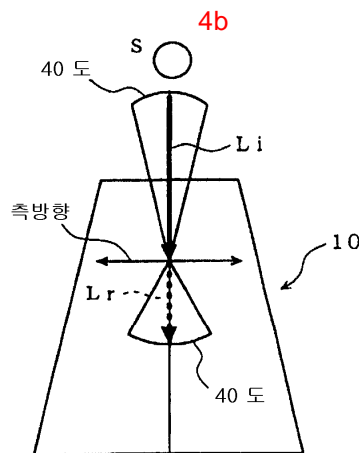
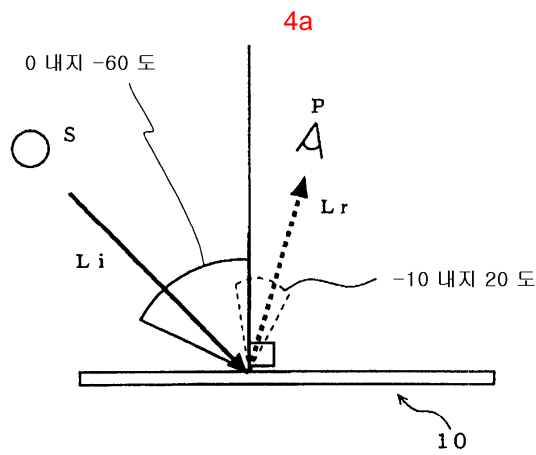
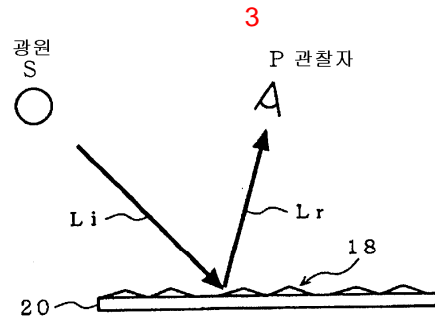
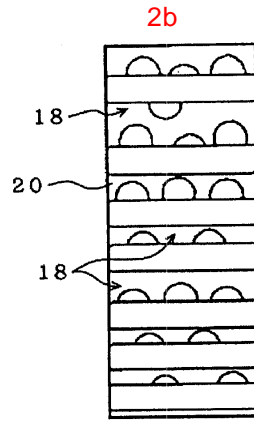
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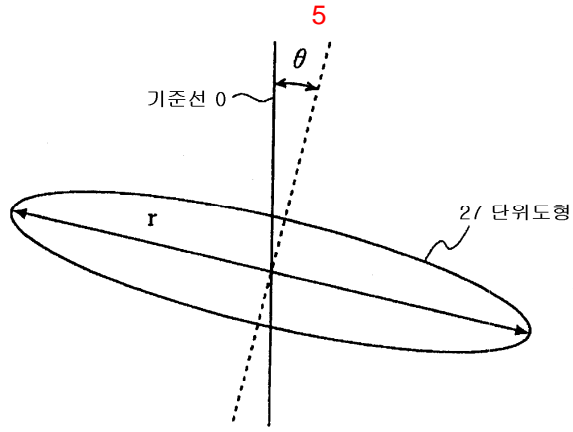
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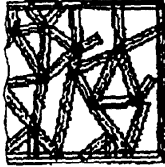
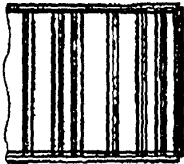

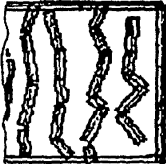
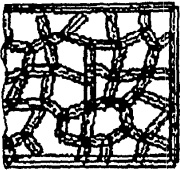

2a

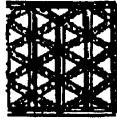
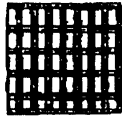
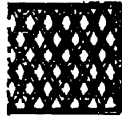
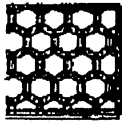



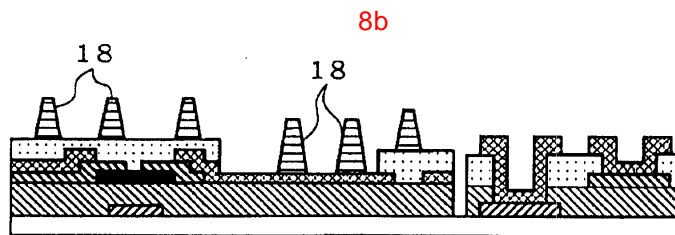
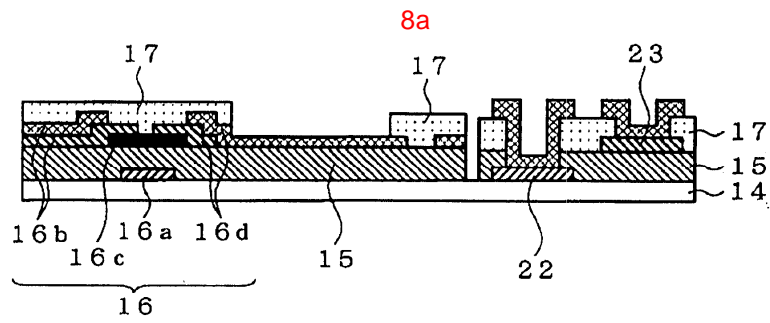


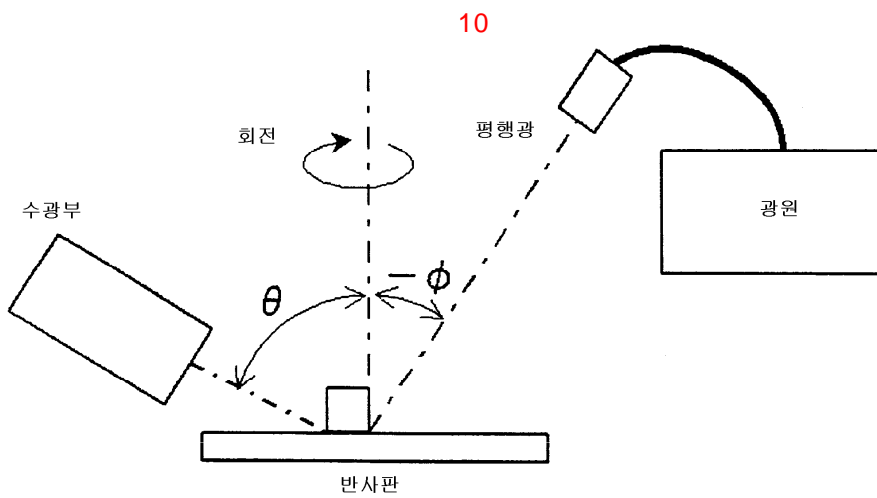
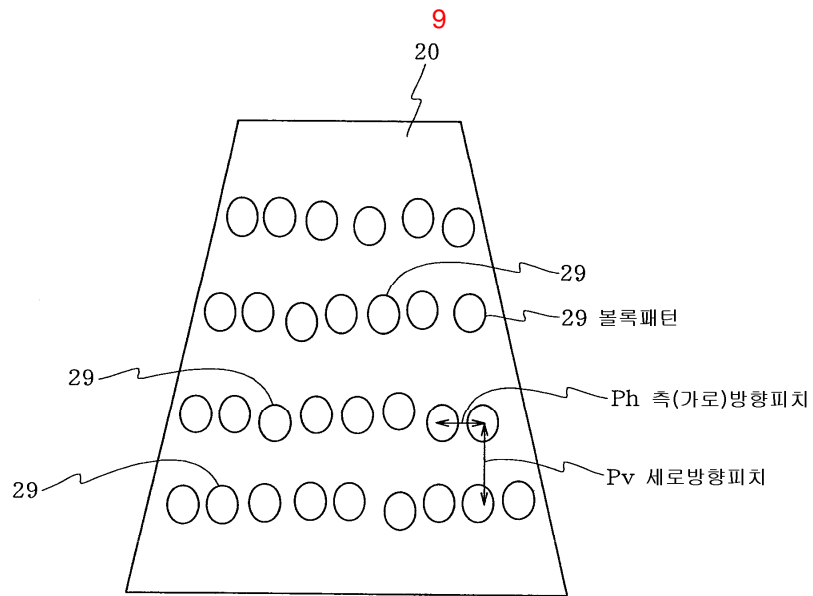
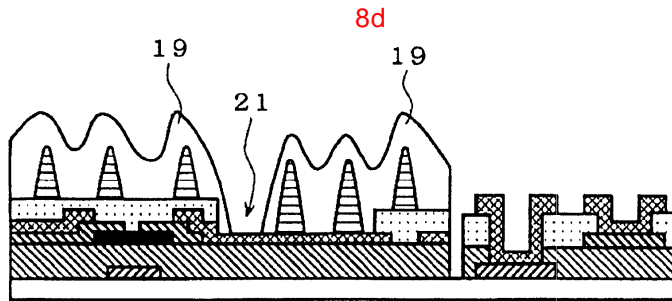
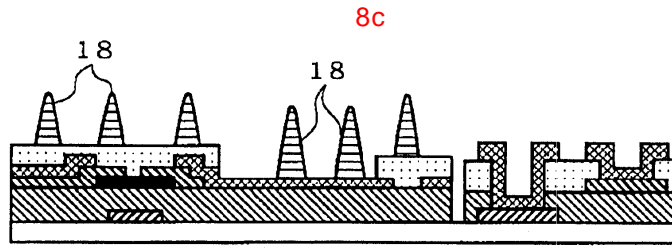


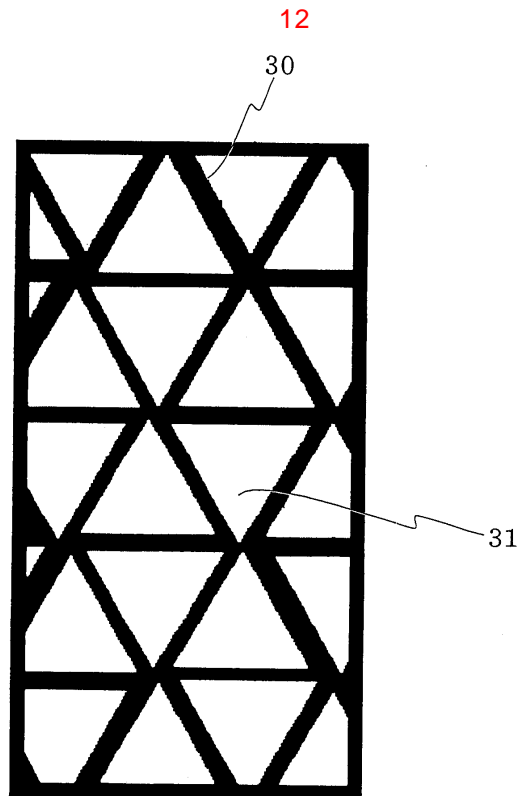
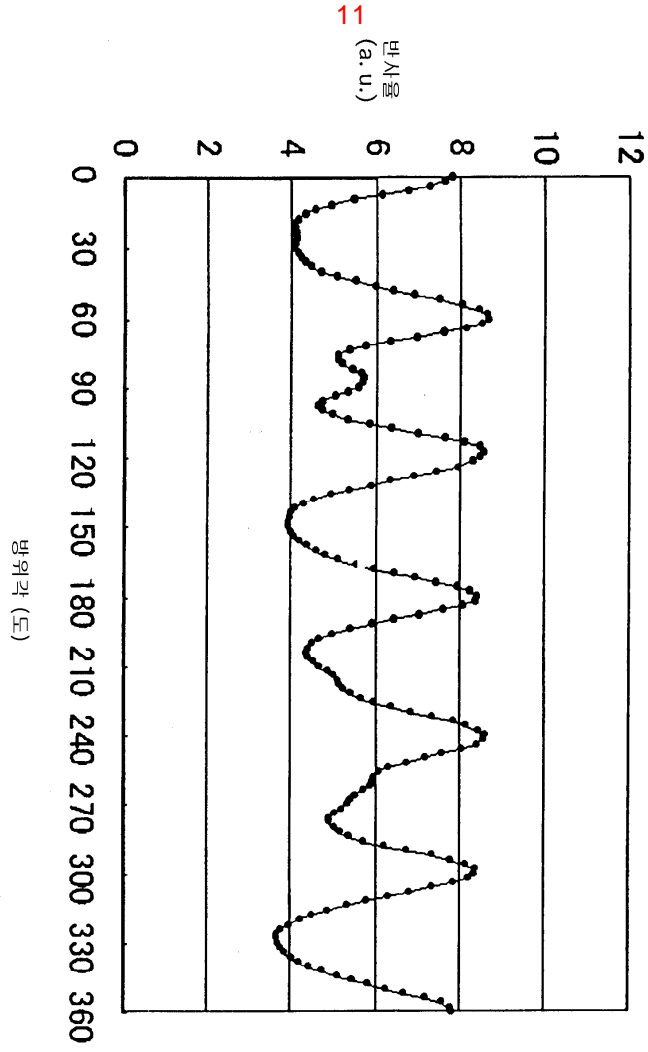
6

	반사편형상	기본도형		반사편형상	기본도형
(a)		삼각형 Ratio = 35[%]	(d)		직선 Ratio = 100[%]
(b)		사각형 Ratio = 47[%]	(e)		다점직선 Ratio = 60[%]
(c)		육각형 Ratio = 34[%]	(f)		직사각형 Ratio = 47[%]

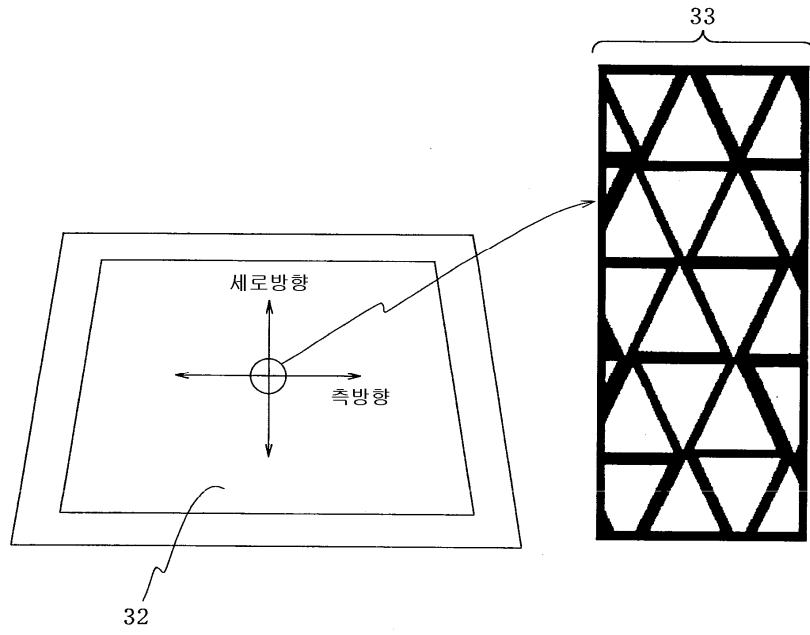
		기본도형				
		삼각형	사각형	마름모꼴	육각형	U자형
이름	STD tr					
이름	STD sikaku					
이름	STD hishi					
이름	STD Hex 1					
이름	STD Hex 2					
이름	STD Hex 3					
이름	STD Ugata 1					
이름	STD Ugata 2					
이름	STD Ugata 3					
이름	STD Ugata 4					



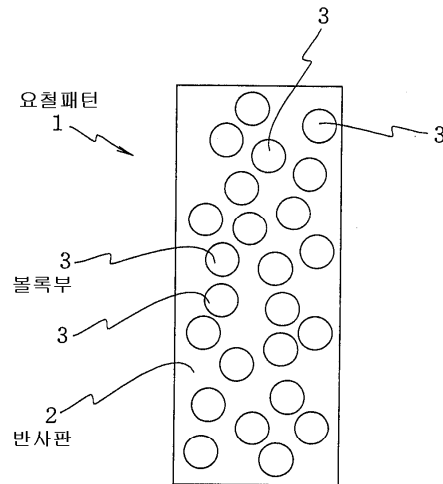




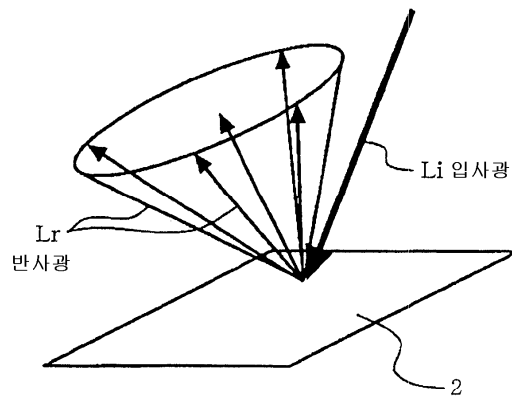
13



14



15



专利名称(译)	反射器，反射型液晶显示装置及其制造方法		
公开(公告)号	KR100432644B1	公开(公告)日	2004-05-22
申请号	KR1020010068900	申请日	2001-11-06
[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	YAMAGUCHI YUICHI 야마구치유이치 IKENO HIDENORI 이케노히데노리 WATANABE TAKAHIKO 와타나베다카히코 MATSUNO FUMIHIKO 마쓰노후미히코 KIKKAWA HIRONORI 기카와히로노리 SAKAMOTO MICHIAKI 사카모토미치아키		
发明人	야마구치유이치 이케노히데노리 와타나베다카히코 마쓰노후미히코 기카와히로노리 사카모토미치아키		
IPC分类号	G02F1/1368 G02F1/1335 G02F1/1343 G02B5/08		
CPC分类号	G02F1/1343 G02F1/133553 G02F2201/123 G02F2201/122 G02F2203/02		
代理人(译)	JO , EUI JE		
优先权	2000340171 2000-11-08 JP 2001088101 2001-03-26 JP		
其他公开文献	KR1020020035764A		
外部链接	Espacenet		

摘要(译)

本发明提供一种反射板和反射型液晶显示装置及其制造方法，该反射板和反射型液晶显示装置能够增加从诸如荧光灯或太阳光的光源反射的光量以朝向观察者反射，从而能够进行明亮的显示。1 指数方面 反射电极（反射板），凹凸图案，反射表面，各向异性

이름	기타형			
	삼각형	사각형	정육각형	정팔각형
이름	STD4	STD4kaku	STD4hihi	STD4x1
패턴				
이름			STDHex2	STD_Ukatala2
패턴				
이름			STDHex3	STD_Ukatala3
패턴				
이름				STD_Ukatala4
패턴				