

(19)
(12)(KR)
(A)(51) 。 Int. Cl. ⁷
G02B 5/30(11)
(43)2003 - 0013306
2003 02 14(21) 10 - 2002 - 0045578
(22) 2002 08 01

(30) JP - P - 2001 - 00239828 2001 08 07 (JP)

(71) 가 가
가 가 1 1 - 1

(72) 가 가 1 1 - 1 가 가

(74)

:

(54)

(20)
(21) , (21) , (21) (

22) . , (21) (22) (d2) () 90 °

(d1) (22) .

2

1a 1b 1 ,

2 1a 1b

,

3 1a 1b

,

4 () 1 ,

5 ,

6 ,

7 ,

8 .

,

.

, 가 . , () . ,

, () () . () 2 , , .

, , () . (, , , .) .)

8a 8b ,

.

8a 8b , 가
100% ,
95:5~5:95 .

8(a) , (L2) (L3)
(L2) (L3) (L1) , 8b
(L1) .

가 , 가 , .

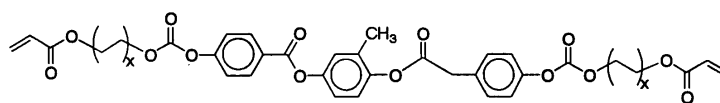
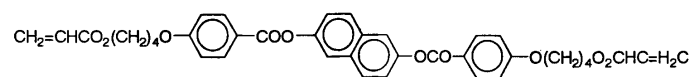
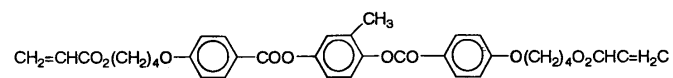
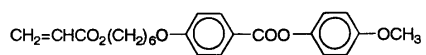
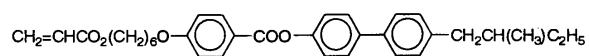
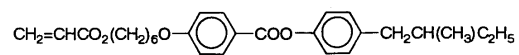
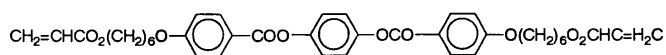
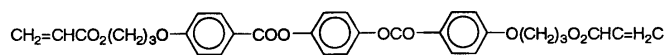
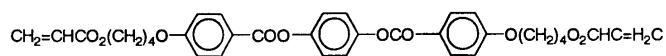
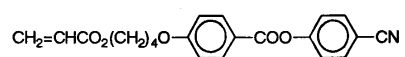
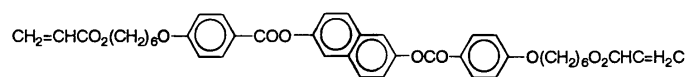
가 , 가
(L2,L1) 가 ON , (8a),
가 .

1 ,
 ,
 ,
가 90 °

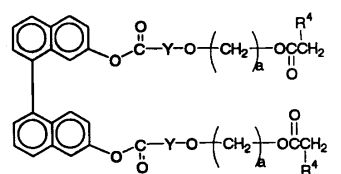
2 , ,
 ,
 ,
가 90 °

1 2 ,
 90 ° ± 15 ° , 90 ° ± 22.5 ° ,
 ,
 .

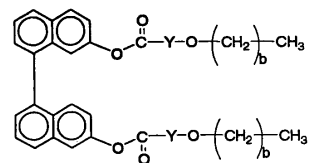
, ,
 ,
 가 90°
 ,
 , . , 가
 .
 ()
 , .
 , 1a 1b 1
 1a 1b , (20)
 (21) , (21) ,
 (21)
 (22) .
 , 1b , (22) (21) (23,24) ,
 (21) (23,24) (25) , (25)
 . , (22)
 (21) 가 . , 1a
 (R) (L) (21)
 (R') , (22) .
 , (21) 가
 , (21) (22) 1a
 (21) , 1a
 () .
 ,
 .



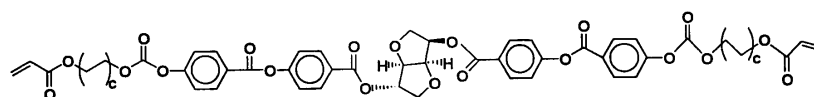
$x=2 \sim 5$ (integer)



a=2~12(integer)



b=2~12(integer)



c=2~5(integer)

, 2 (d1) , (22) (21) (22) (d2) ()
 90 ° (75%) , 90 ° ± 22.5 ° , (21)
 90% , 90 ° ± 15 ° (d1) (22) (director) ,
 (d2) 0 ° ~ 180 ° .

, (21) (22) 3 , (41)
 (42) , (21) (22) (23,24) , (24)
 (25) 3 (43,44) .

, (21) , 가 , 3
 (22) 2 ,

, 4 1a 1b (20) () 1

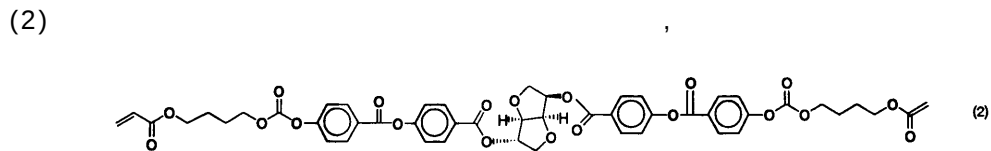
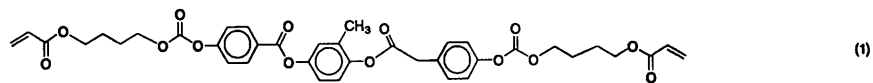
4 , (10) ()
 (26) , (26) (16) , (26) (16)
 (20)가 . , (26) (27) . ,
 (16) (17) (17)
 (19), (17) (18) . , (19)
 (19a) .

(10) , (20)
 () , (20)
 .

, (21) , (21) ,
 (22) (21) (22)
 (d1) (22) (d2)
 가 90 ° , (22)
 6) (21) (27) , (2)
 가 .

, 5 7 .

(400~570nm) (400~750nm)
 (1) , , ,



94:6~97:3

, 가 , ,

1/2 λ 1/4 λ (450nm~650nm
90%) 1.5
NOA65 NOA68(NBorland Proudct Inc., U.S.A)
가 0 ° , 30 ° , 60 ° , 75 ° , 90
° , 105 ° , 120 ° , 180 ° 8
8 5
(Y) (20) (31) ()
(20) (28) (32) (31)
(32) Apex Corporation (goniophotometer)
(28) (20) () (1)
(28) (1), (2) (28) (
2) 2
1 → → →
2 → →
5 (20)가
가 (1 Y)/(2 Y) , (Y)
)/(Y)
6
가 120
6 90 ° ± 22.5 ° 75%가 , 90 ° ± 15 ° 6
90 ° ± 22.5 °
90%가
7
LCD Master(Shintec Inc., Japan)
7 6
가

(57)

1.

가 90 °

2.

1

3.

1

가 90 ° ± 22.5 °

4.

1

가 90 ° ± 15 °

5.

1

6.

1

7.

6

8.

9.

가 90 °

8

10.

8 가 $90^\circ \pm 22.5^\circ$

11.

8 가 $90^\circ \pm 15^\circ$

12.

8

13.

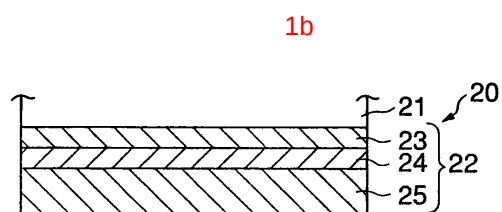
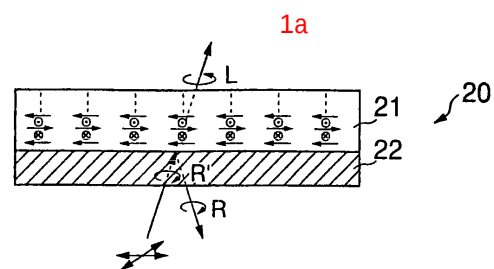
8

14.

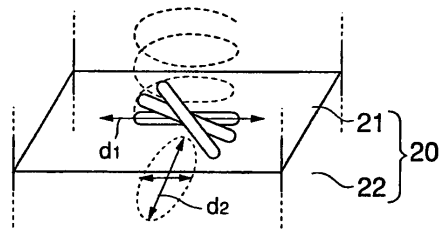
13

15.

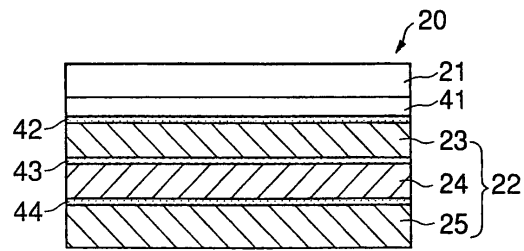
8



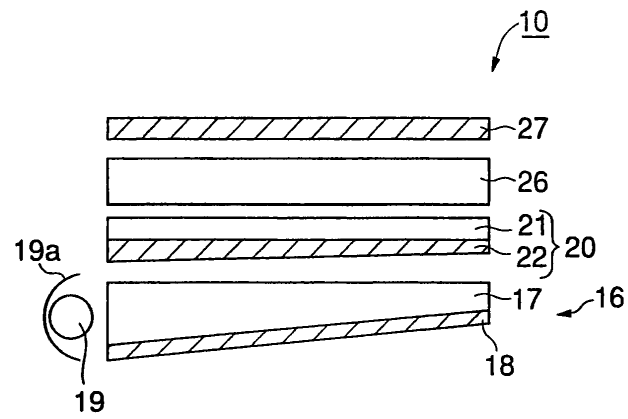
2



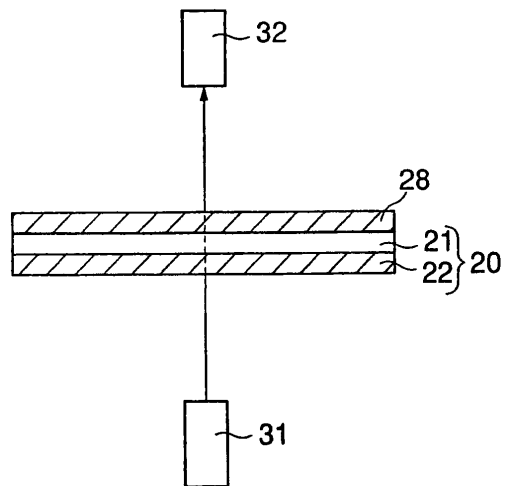
3



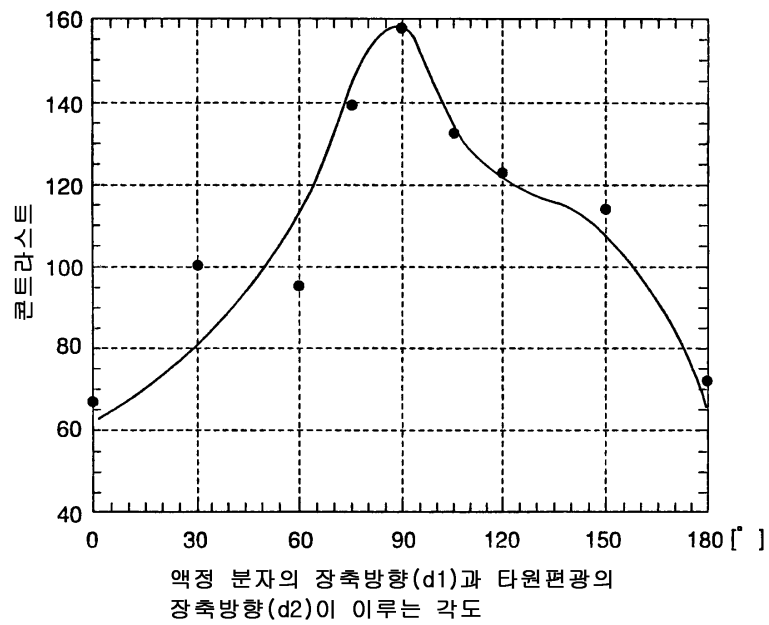
4



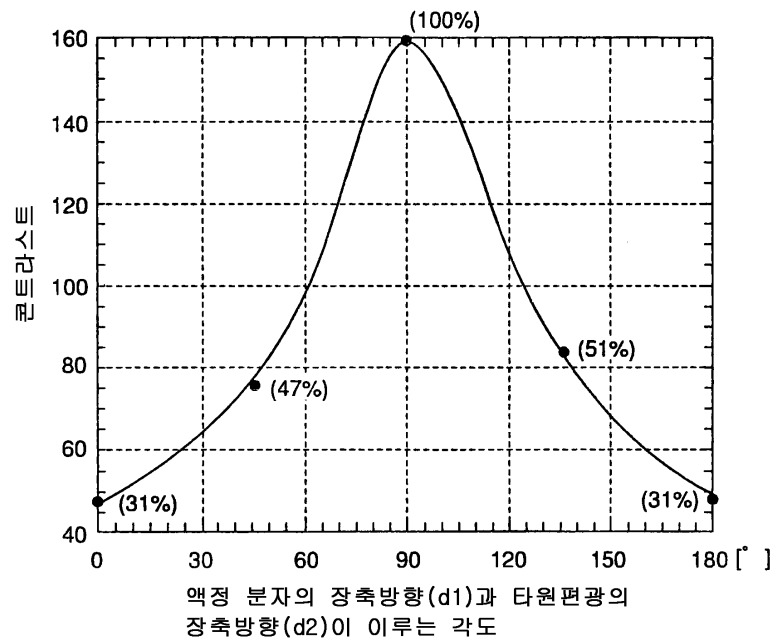
5



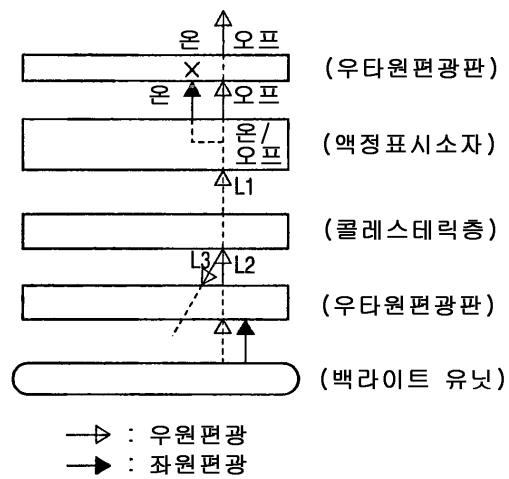
6



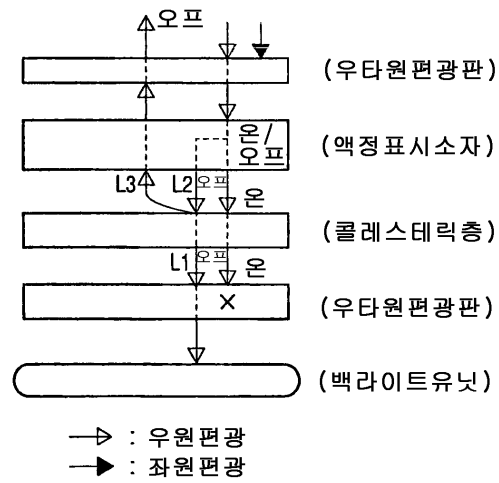
7



8a



8b



专利名称(译)	偏振元件和具有该偏振元件的光学显示装置		
公开(公告)号	KR1020030013306A	公开(公告)日	2003-02-14
申请号	KR1020020045578	申请日	2002-08-01
[标]申请(专利权)人(译)	大日本印刷有限公司		
申请(专利权)人(译)	大日本人才平底鞋株式会社		
当前申请(专利权)人(译)	大日本人才平底鞋株式会社		
[标]发明人	UMEYA MASANORI		
发明人	UMEYA,MASANORI		
IPC分类号	G02F1/1335 G02B5/30		
CPC分类号	G02B5/3016 G02F1/133528 G02F1/133536		
代理人(译)	KIM , YOON BAE		
优先权	2001239828 2001-08-07 JP		
外部链接	Espacenet		

摘要(译)

吸收型椭圆偏振片 (22) 产生椭圆偏振, 其中具有与层叠的圆偏振分量的绘制光方向相同的转向光方向的圆偏振分量在胆甾醇层 (21) 中被选择性地反射。主要成分包括在右侧圆偏振成分附近, 其中偏振装置 (20) 包括在入射光或胆甾醇层 (21) 中, 其选择性地反射左侧圆偏振中的一侧成分和胆甾醇层 (21)。这里, 位于面侧的液晶分子的椭圆偏振方向 (d2) 与位于面侧的液晶分子的吸收型椭圆偏振片 (22) 接近的角度 (层叠角度) 接近胆甾醇层 (21) 中的吸收型椭圆偏振片 (22) 构成约为 90° 的一个预定角度范围。

