

(19)
(12)(KR)
(A)(51) 。 Int. Cl. ⁷
G02F 1/1335(11)
(43)2003 - 0023845
2003 03 20(21) 10 - 2002 - 0000407
(22) 2002 01 04

(30) JP - P - 2001 - 00279646 2001 09 14 (JP)

(71) 가 가
가 가 가 가 4 1 - 1

(72) 가 가 가 가 4 - 1 - 1 가 가

(74)

(54)

, (白)	가	(黑)	,			
1	,	2	,	1	2	1
2	.	.	,	2	.	.
2		1		3		

1

2

3

4

5

6

7

1

8a

8b

9

2

10

3

11(a) LCD , 11(b) , 11(c)
PDA , 11(d)

2:

4, 8, 10:

6:

20:

22, 26:

24,

28:

30, 30A, 30B:

32:

34, 36:

38:

40, 42, 44:

46:

48:

50:

1 2 . , (白)

$$1 \quad (4) \quad . \quad , \quad (4)$$

, (4) , (6) 7
 90 (8) 90 (8) (4) 2
 (6) (8) (8)

2 (零) , (4) (6)
 (8) (6) (8)

(8) 가 , 가 . 가
(9) 가 , 가 . 가

(浮遊) 가 , , . . . (DVD) 가
가 ,) 가 .

2000 - 180843

가

- 3 -

10 - 133196

가

가

가

2

가

$$\begin{array}{ccc} , & 3 & \\ 1 & , & 1 \\ 1 & & 2 \\ 3 & , & 3 \\ 4 & & 1 \end{array}$$

, 2 3

1 , 1 , 1 , 2 , 2 , 3 , 2
1 2 1 2 1 3 2
가 .

$$, \quad , \quad 2 \quad \quad \quad 3 \quad \quad \quad . \quad 2$$

$$, \quad \quad \quad 2 \quad \quad \quad , \quad 3 \quad \quad \quad . \quad .$$

1 , 1 , 1 , 2 , 2 , 1 , 2 , 1 , 2 , 3 , 2 , 2 , 1

[]

$$3 \quad , \quad (4) \quad , \quad . \quad , \quad (4) \quad , \quad (2) \quad , \quad 1$$

(零) , , , (4) (4) (4) (6)
 . (6) (8) , (4) 2 ,

1 (, 99.95%) .

$$(8) \quad 2 \quad (8) \quad . \quad , \quad (6) \quad (10)$$

$$, \quad (8) \quad \quad \quad (10) \quad \quad (6)$$

$$, \quad (8) \quad \quad (9) \quad \quad (10)$$

$$, \quad , \quad \quad \quad \nexists \quad ,$$

$$4 \quad (2) \quad . \quad 12 \quad , \quad (14)$$

$$(16) \quad , \quad (12) \quad (12) \quad .$$

, (12) . 18 .

$$(8, 10) \quad 5 \quad . \quad (8, 10) \quad , \quad (20) \quad , \\ (22) \quad , \quad (24) \quad , \quad (26) \quad , \quad (28)$$

[1]

%			%
43.2	37.5	0.02	99.95

$$1, \quad , \quad 1, \quad , \quad , \quad , \quad \ln, \quad , \quad \text{Ip}, \quad , \quad \text{Ip}/(\text{Ip}+1)$$

$$1 \quad , \quad 2 \quad , \quad 1 \quad , \quad 2 \quad , \quad 2$$

99.97%

6 , 1 (4, 8, 10) (6) . (8)
(10) (99.95%) . (4) (8, 10)
. (4) 99.95% .

$$= / \text{가} . () \quad (4)$$

500cd/m², (6) 가 100% 가 , (8)

$$= 500 \text{cd/m}^2 \times 0.375 = 187.5 \text{cd/m}^2$$

$$\equiv 500 \text{cd/m}^2 \times 0.0002 \equiv 0.1 \text{cd/m}^2$$

$$= 187.5/0.1 = 1875$$

, (10) 가 . (8)
(10) 99,95%가 , 0.05%가 (10) 가

$$0.375/0.432 = 86.8\%$$

$$= 187.5 \text{cd/m}^2 \times 0.868 \times 0.9995 = 162.7 \text{cd/m}^2$$

, (8) (10), (10)

$$= 0.1 \text{ cd/m}^2 \times 0.432 = 0.0432 \text{ cd/m}^2$$

$$= 162.7 / 0.0432 = 3766$$

$$= 162.7/500 = 32.54\%$$

$$= 0.0432/500 = 0.00864\% \text{ 가}$$

, (8) 1 0.02% , (10) , 0.00864%

가 99.95% , 가 . , 가

가 , 가

2 , 3
가 ,
가 가 , 2

7 1 (30)
(34, 36) , (34, 36) (38) . 32 ,
(34, 36)

(30)
(46) 1 (46) (40)
(42, 44) (42) 1 (44) (30)
99.95% 2 ,
8a (46) (46) (22), (28) (46) (32) , , (2)
0), (22), (24), (26) (28) (24), (42) (26), (20)
(32) (20) 가

, 8b , (42) (28) (44) (42) (26) (28)
(42) (44) (20) 가

9 2 (30A)
(32) (42) , (42) (50) , (50)
(44)

7 1 가 , (42 44)
(32) (40) (40)

1 2 가 (30, 30A) , (42, 44)
,

10 3 (30B)
(32) (32) (40) (52) 2 (40, 52) (52)
(32) , (40) (52)

, (32) (42) (38) (40, 52)
, (34, 36) 가 ,
,

11(a) ~ 11(d) , 11(a)
(56) LCD (54) , 11(b) , (60)
(58) ,

, 11(c) , (64) PDA(62) , 11(d)
, (68) (66)

(1) ,
 1 , 1 1 ,
 2 , 1 2 1 2
 ,
 2
 3

(2) ,
 1 , 1 1 ,
 2 , 1 2 1 2
 ,
 2
 3

(3) 2 3 ,
 1 , 1 ,
 2 2 , 2 ,
 2 , 2 ,
 2

(4) 2 3 ,
 3 ,
 2

(5) 2 3 ,
 2 , 3 ,
 1

(6) ,
 1 , 1 1 ,
 2 , 1 2 1 2
 ,
 2
 3

(7) 3 2 6

(8) 2 3 ,
 1 , 1 1

2 1 , 1
 2 2 , 2
 2 2 , 2
 7 .

(9) 2 3 ,
 2 , 2 , 3
 6 .

(10)

,

,

1 , 1 1 ,
 2 , 1 2 1 2
 ,
 2 , , 2 1
 3 .

, (白) (黑)
 が , .

(57)

1.

,

1 , 1 1 ,
 2 , 1 2 1 2
 ,

2 , , 2 1
 3 .

2.

,
 1 , 1 1 ,

2 , 1 2 1 2

,
2 , 2 1
3

3.

1 2 ,

3 2

4.

3 ,

2 3 , 1 1 , 1 3 , 1 2 , 2 1
, 1 , 2 , 2 , 4 , 4 , 3 , 3 , 1 , 2

5.

4 ,

2 3 , 2 2 2

6.

1 5 ,

2 3 ,

2 , 3

7.

, , ,

1 , 1 1 ,

2 , 1 2 1 2

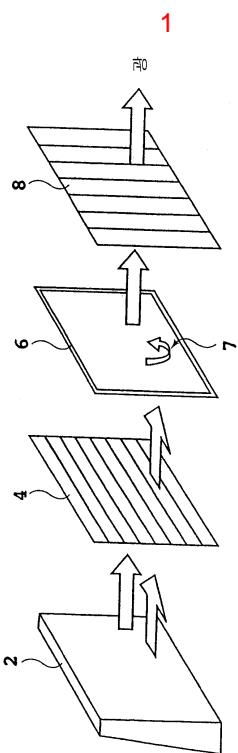
,

2

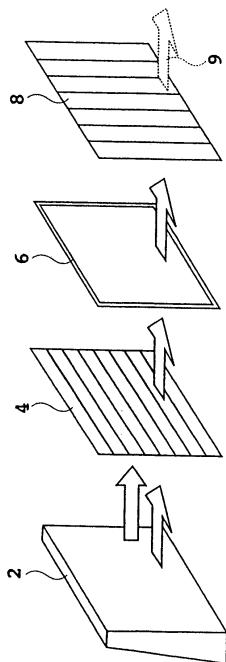
2

1

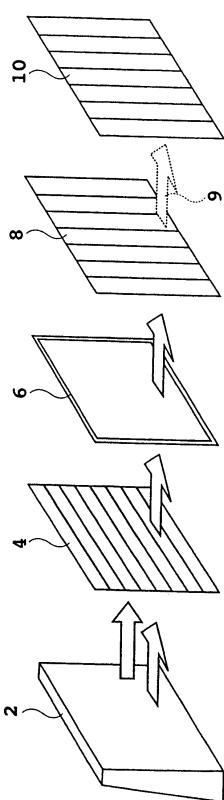
3



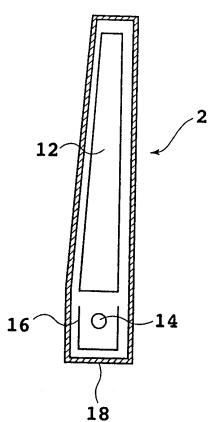
2



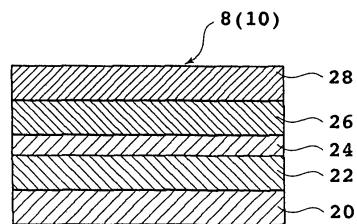
3



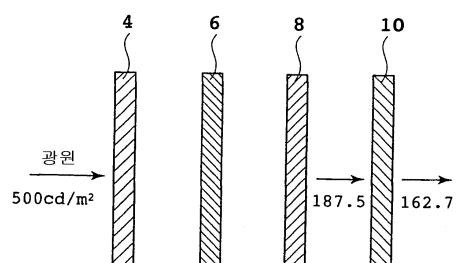
4



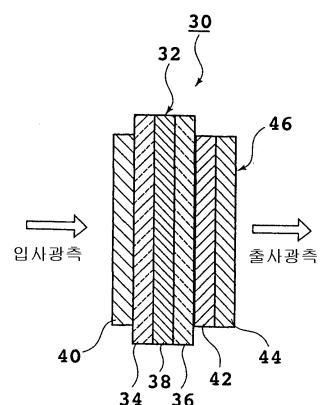
5



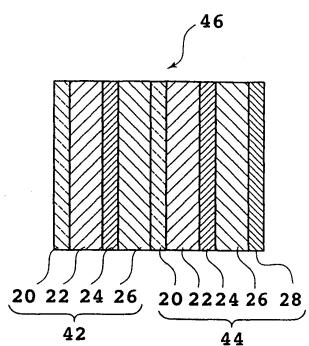
6



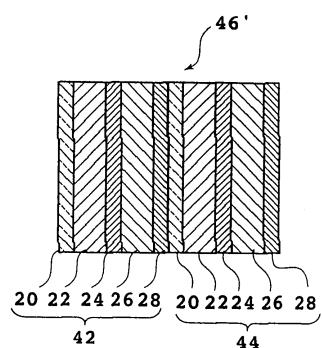
7



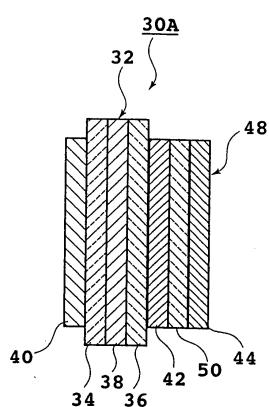
8a



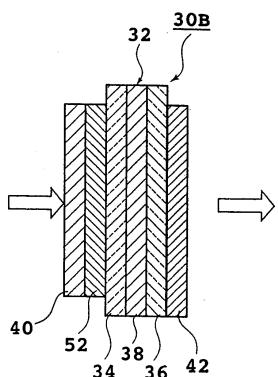
8b



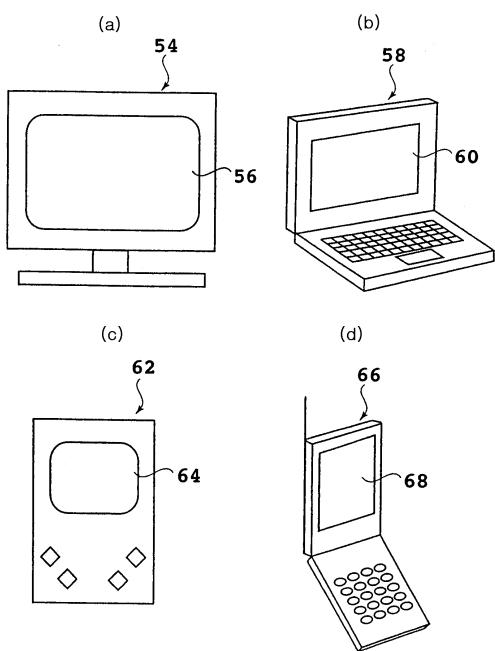
9



10



11



专利名称(译)	液晶显示装置和具有该液晶显示装置的电子设备		
公开(公告)号	KR1020030023845A	公开(公告)日	2003-03-20
申请号	KR1020020000407	申请日	2002-01-04
[标]申请(专利权)人(译)	富士通株式会社		
申请(专利权)人(译)	富士sikki有限公司		
当前申请(专利权)人(译)	富士sikki有限公司		
[标]发明人	MORI EIICHI		
发明人	MORI,EIICHI		
IPC分类号	G02F1/1333 G02B5/30 G02F1/1335		
CPC分类号	G02F1/133528 G02F2201/16 G02F2001/133562		
代理人(译)	MOON , KI桑		
优先权	2001279646 2001-09-14 JP		
其他公开文献	KR100730328B1		
外部链接	Espacenet		

摘要(译)

本发明提供一种液晶显示装置，其中通过抑制黑色亮度同时防止白色亮度尽可能低来改善对比度。液晶显示装置包括液晶层，设置在液晶层的第一表面上并具有第一偏振轴的第一偏振片，和设置在液晶层的第二表面上的第二偏振片，并且第二偏振板具有彼此正交的第二偏振轴和第一偏振度。液晶显示器还包括第三偏振板，其直接或间接地叠加在第二偏振板上并具有第二偏振轴和第一偏振度。 3 指数方面 液晶显示器，偏振片，偏振轴，偏振度，白色亮度，黑色亮度，对比度

