

(19)
(12)

(KR)
(A)

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(21) 10 - 2002 - 0000151
(22) 2002 01 03

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(71)

10504

(72)

가	가	가	가	가	4 - 56 - 14
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(74)

•

$$(54) \quad \begin{array}{l} \text{[} \langle \text{ } \rangle \text{]} \\ \text{[} \langle \text{ } \rangle \text{]} \end{array}, \quad \begin{array}{l} \text{[} \langle \text{ } \rangle \text{]} \\ \text{[} \langle \text{ } \rangle \text{]} \end{array},$$

가

$$\begin{array}{ccccccc}
(10) & & (13) & (X), (Y) & (10) & (V) & (H) \\
, & (11A, 11B) & (S) & (10) & (H) & . & , 4 \text{ 가 } 1 \\
(13) & , & (X), (Y) & , & \text{가} & (Z) & 4 \\
, & (13) & & [& (R) & (L)] & (10) & (H)
\end{array}$$

1 ,

2 .

3 .

4 .

5 (a) IPS , (b) (a)

6 .

7 ,

8 .

9 ,

< >

10, 20 : (,)

11A, 11B, 11B' :

12 : ()

13, 21 : ()

13a, 13b :

14 : ()

24 :

25 :

가 6

(2) (2, 2)

(2) 1 1

(2)

2 (3, 4)가 2 × 가

2 4 (2) 가

(3, 4) (2) (2)

가 가

가 (2)

(2) (2)

(2) 60 - 156048 7 - 140461

(2)

(2) (Twisted Nematic : 「TN」)

가 (2) IPS(In Plane Switching :) VA(Vertical Align :)

(5) TN (6) (6) (2)

(7) (6) (2) (7)

(2)

가 7 8 (2) (2)

(8A, 8B) (8A, 8B) (a) (2)

(2) (2a, 2b) 8 (b), (c)

(8A, 8B) (2a, 2b) (8

), (8A, 8B) (2a)

(8A, 8B) 9 , (d)

(9) . (8A, 8B) (9) (8A, 8B) 가 .

8 o , e(Extra Ordinary :) 가 .

, (9) (W) (8A, 8B) 가 , ,
 () (9) (8A, 8B)
 , (9) .

, 7 (6) (7) , (6)

(7) 가 , (6) (7)

.

, , 가
 , ,
 , ,
 .

2
 , 2
 , 2
 , 90 ° TN
 ,
 ,
 , 가 ,
 , ,
 , ,
 ,
 , 1 , 1
 , ,
 ,
 , 2 , 가 .
 8 , / /
 , () ,
 /

/ / / : 90 ° TN (o),

$/ / / : 90^\circ \text{ TN}$ (o),

$/ / / : 90^\circ \text{ TN}$ (e),

$/ / / : 90^\circ \text{ TN}$ (e),

$/ / / :$ (o),

$/ / / :$ (o),

$/ / / :$ (e),

$/ / / :$ (e).

,가 90° TN , .

가 가 ,

. 가 .

, 가 , , 가

4 가 . , 4 1 , 가
가 , ,
.

, ,
, 가 ,
가 ,
, IPS .

가 $n = 4$, 4 1 가 $n = 1$ (n ≥ 2) ,
, 4 . , 2 , n
가 , n 4 ,
n .

가

1

()
(11A)
() (12)

() (10) , (10)
(11B) , (10)

(10) , [(V)] $2 \times$ 가 [(13)
(H)] 4 8 () (13)
2 (13a, 13b) ,
가

(13) () (14)
(10) , (13) (14) (10)
(13)
(X) (13a)
() , 1 (Y) (13b)

(13) () (13a, 13b)
(13a) (13b) 1 (X), (Y)
(13) (10) (H)
(V)

(10) , (13) 4 1
(10) (H) 2 (13 - 1 13 - 2, 13 - 3 13 - 4) (1
3a) (X) , (10) (V)
2 (13 - 1 13 - 3, 13 - 2 13 - 4) , (13a) (Y)

(13) , 2 (13a, 13b) [(1
3a) (13b) 90]
(13a, 13b) (X), (Y) 가 180
가 가

(13)[(R)] (13)[(L)] (13) (10) ,

, 2 (Z) (13) , 가 가 가 가 , 4 1 (13) , 가

(Z) (10) (V) (H) 4 .

, (11A, 11B) ,

, (11A, 11B) (S) . 1 ,

(10) (11A, 11B) (S) .

, (11A, 11B) (S) (10) (H) .

, 3 (11A, 11B') (S) , (10) (11A) (

S) (10) (V) , (11B') (S) (H)

, (10) (13) (X), (Y) (1

0) (V) (H) , (11A, 11

B) (S) (10) (H) ,

(11A) (S) (10) (V) , 4

(10) (11A, 11B) (9) (d)

가 , (W) (9) (11A,

11B) 가 , (V) 가 가 , (H)

, (11A, 11B) (S) (H)

가 , (9)

가 .

, (10) , 4 1 (13) ,

가 (Z) 4 ,

, (13) [(R) (L)] (10) (H)

,

, (10) (13) (11A, 11B) (13) ,

, (10) , 4 1 (13) (X), (Y)

, 가 (Z) ,

, (13) , (10)

.

, (13) (14) ,

2 × 가 2 (13) (10) , (13) 2

(12) (10) ,

(10) TN , IPS

가 5 (20) IPS () (21)

5 (20)

(20) (11A, 11B), (20)

(12) 1 가 .

(20) , 2 × 가 4 8 (21)

5 (b) , (21) 2 (21a, 21b)

(22), (23), (24), (25)

(22) (23) , (22) 2

(24) , 2 (24) (25) 가 (21a, 21b)

(a) , IPS (21) (21a, 21b)

(22) (20) , (21) [5

(a) (t)] (20) (H) , 5 (a)

(t) (21a, 21b) , 5

· , (21a)/ (21b) / , / , /

· , / 4

(20) (11A, 11B) (S)

(11B) (S) (20) (H)

IPS (21) 가 (W) (9)

(11A, 11B) , 가 가 (9)

· , 가

· , TN , 가

8.

7 , 1 ,

.

9.

7 , 4 1 가 4 가

.

10.

7 ,
가

.

11.

2 ,

,

가

.

12.

11 , 가 ,

.

13.

2 ,

가 ,

가 $n - 1$ ($n \geq 2$) 가 .

14.

13 , .

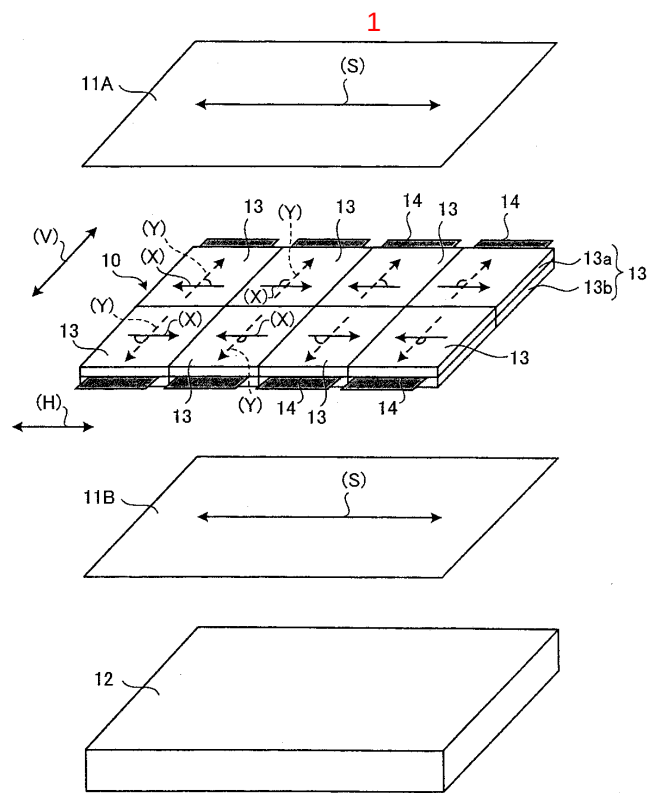
15.

2 가 ,

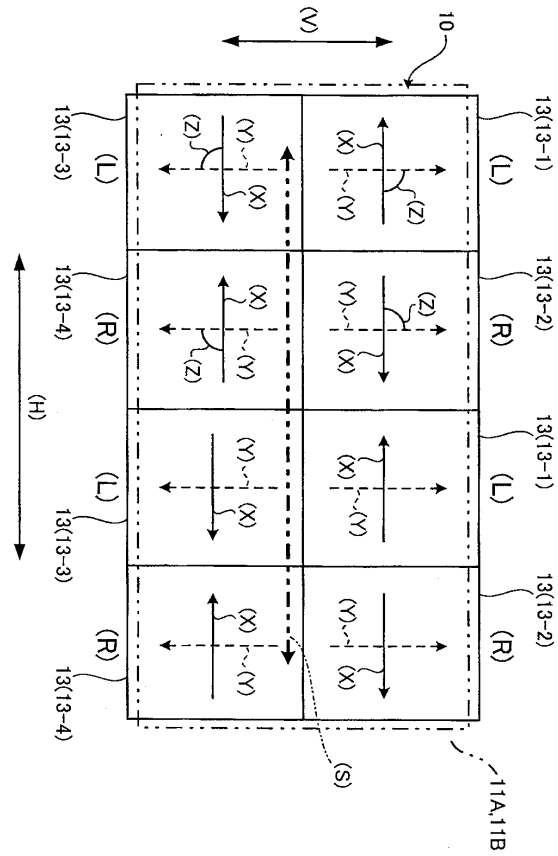
,

16.

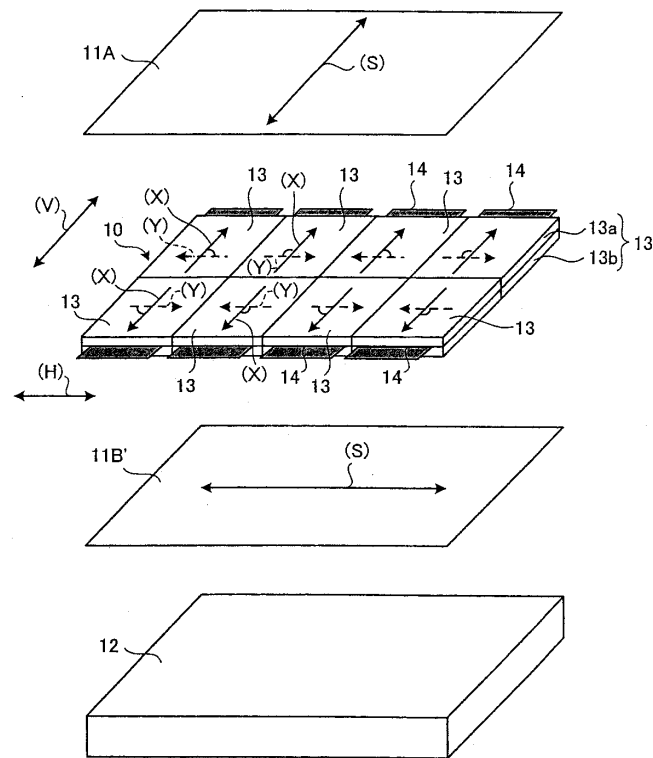
15



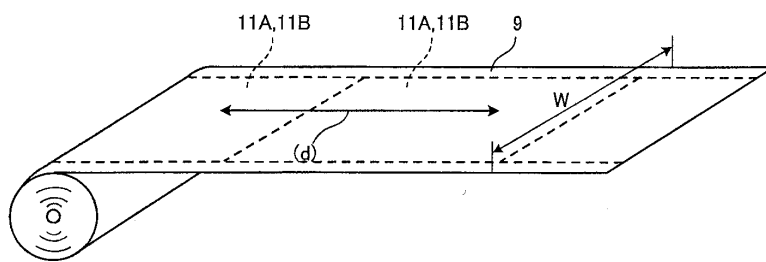
2



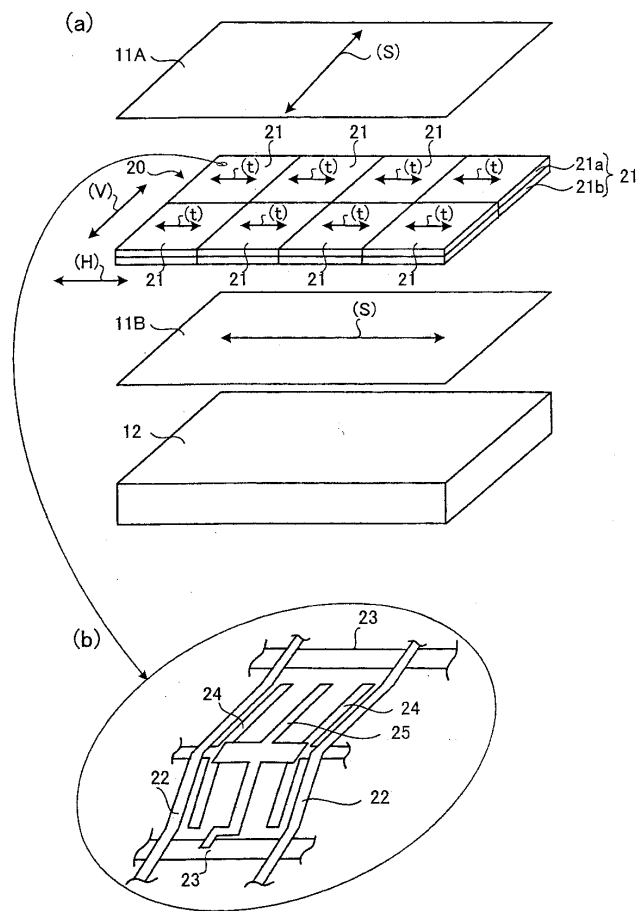
3



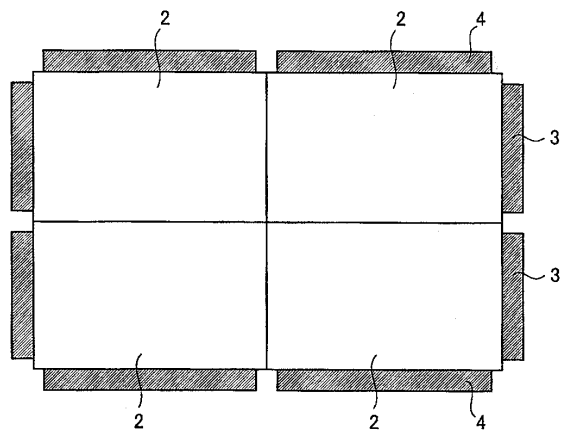
4



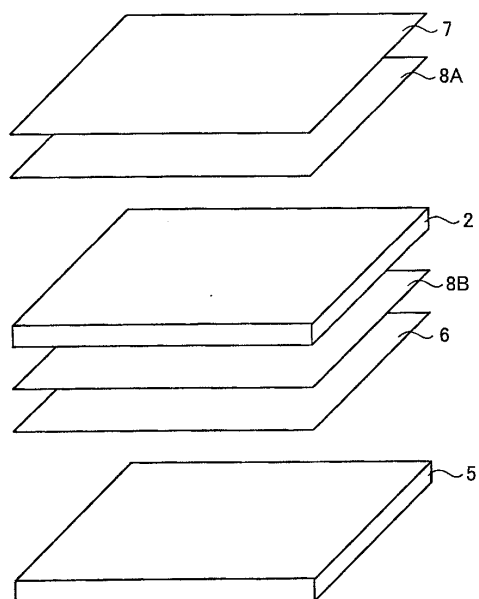
5



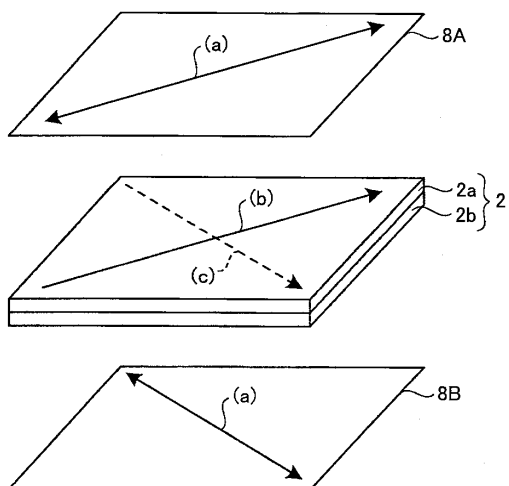
6



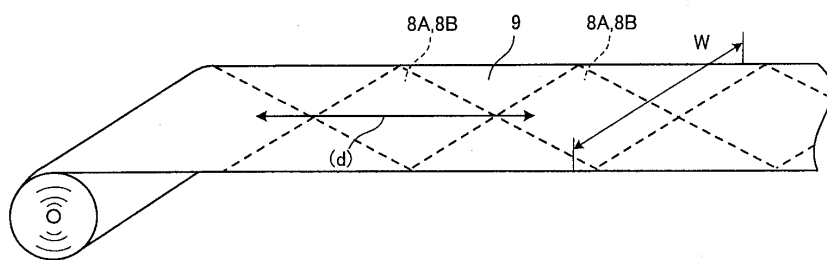
7



8



9



专利名称(译)	显示面板装置，显示面板单元，显示装置		
公开(公告)号	KR1020020057812A	公开(公告)日	2002-07-12
申请号	KR1020020000151	申请日	2002-01-03
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申请(专利权)人(译)	에이유오프트로닉스코퍼레이션		
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[标]发明人	SUZUKI SHUNJI		
发明人	SUZUKI,SHUNJI		
IPC分类号	G02F1/1335 G02F1/1337 G02F1/1333		
CPC分类号	G02F1/13336 G02F1/133753		
代理人(译)	金珍HWAN		
优先权	2001000814 2001-01-05 JP		
其他公开文献	KR100605329B1		
外部链接	Espacenet		

摘要(译)

发明内容本发明的目的是提供一种显示面板装置，显示面板单元和显示装置，其尺寸可以扩大并且可以进一步改善视角特性。 构成液晶面板单元10的瓷砖面板13的摩擦方向X和Y设定为液晶面板单元10和偏光板11A的长度方向V和横向H.并且11B与液晶面板单元10的水平方向H对齐。通过使瓦片面板13中的摩擦方向X和Y彼此不同，将具有良好对比度的观察方向Z分散在四个方向上，其中四个片是一组，液晶面板单元10中的液晶分子的液晶分子的 (符号R和L) 在液晶面板单元10的横向H上交替排列。 2 指数方面 显示面板装置，显示面板单元，显示装置，液晶面板，显示单元面板，摩擦，瓷砖面板 - 1 -

