

(19)
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(43)2002 - 0091448
2002 12 06(21) 10 - 2001 - 0030125
(22) 2001 05 30

(71) 136 - 1

(72) 699 - 7 3 301 - 1403
2 535 - 26

(74)

:

(54)

, ;
;

(V)

가 , , , .

3

1

2

1

4

1

3

1

5 2 . 7 2 6 2 .

* *

20; 22;

24; 26;

28; 28a;

28b; 30;

32; 34;

36; 38;

(In Plane Switching Liquid Crystal Display)

1 (13) (10) , 1 (11) (11)
 (13) .
 (15) , (17) () (15)
 (15) (17)
 (Cst)가 .
 (11) (19) (11) (13) , (17)
 (11) , (13) , (11), (13),
 (15) (17) .
 가 가 , (13)
 (19)가 (turn on) . , (19)
 (17) (15) 가 가 . (15)
 (17) 가 .

가

1

2

2 1 3 1

4 1

5 2 7 2 6 2

1 (22) (28) , (36) , (32)

(34)

1 3

(20) (22), (24), (26) / (28a) (28b) (36) (32) (34) (30)

(36) (32) (34)

(field) 가

1 (38) (20); (20) , 4 (20) (l_1)
(36); (36) (32) (34) ,
(36)

(36) (24) (30) (20)
(36) (20)
(20) 10 90 (d₁) (20)
3,000 20,000 (36) (34) (V)
32) (32) (34) ()가
가 (32) (34) ()가

(36) (32) (34)
(32) (34)

(l_1) (d_1) (w_1) 2 15 μm (20) (38)
6 μm (32) (34)
()가 (32) (34)

(36) (332) (34)
(32)(34) 가 (32)(34) ()가
()가 ()

2 (52) (58) , 5
(66) , (66) (6
2) (64)

2 6
(58a)(58b) (52), (54), (56) /
(64) (66) (62)
(58), (54) (56)

(66) (62)
(64) () 가 (field) 가

2 (68) (50); (50) (50) (l_2)
(66); (66)
(66) (62) (64)

, (66) (54) (56) , (50)
 10 90 , (66) (50)
 3,000 20,000 , (d₂) (50)
 , (66) (62)
 (64) (V) 가 (62)
 (64) ()가 .
 , (66) (62) ,
 (64) (62) , (64) (62) ,
 , (62) (64) (w₂)² 15 μm , (50)
 (68) (l₂) (d₂) 6 μm (62) (64)
 ()가 , (62) (64)
 , (66) (62) (64)
 , (62) (64) 가 (62) (64) ()
 가 , ()가 () . ,)
 , 1 2 , ,
 , ITO .
 , (Vertically Aligned mode) .
 , 가
 , 가 .
 , (V) 가
 , 가
 , 가
 , 가
 , 가
 , 가
 , 가
 , 가

(57)

1.

;

;

,

.

2.

1 ,

가 3,000 20,000 .

3.

2 ,

가 10 90

.

4.

1 ,

2 15 μm

.

5.

1 ,

6 μm .

6.

;

;

,

.

7.

6 ,

가 3,000 20,000 .

8.

7 ,

가 10 90

9.

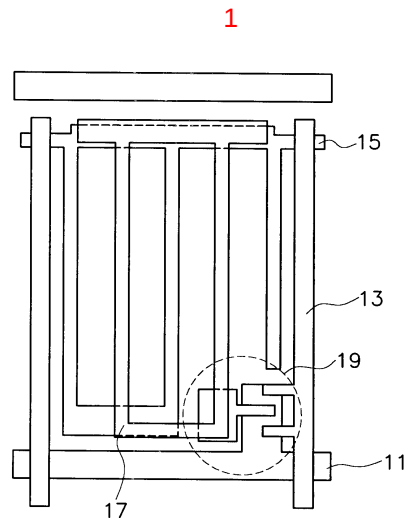
6 ,

2 15 μm

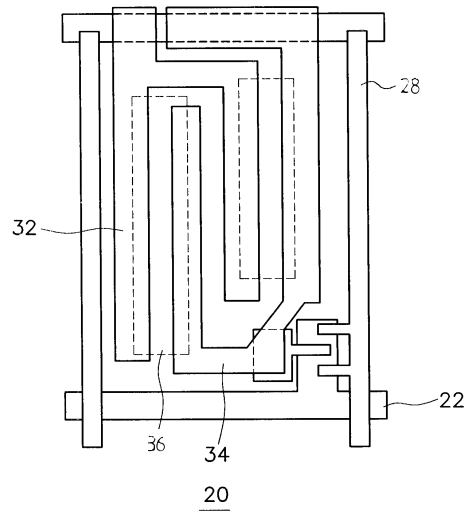
10.

6 ,

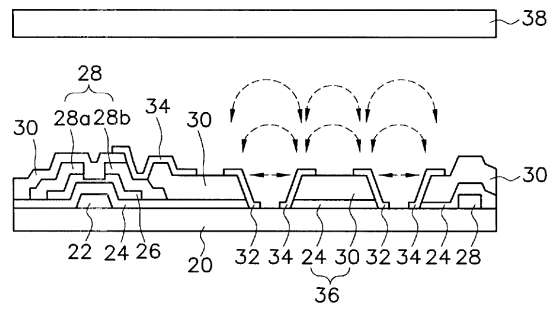
6 μm



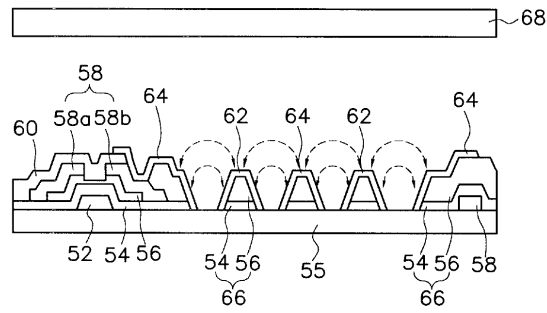
2



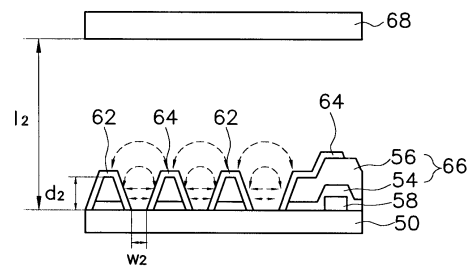
3



6



7



专利名称(译)	充气开关液晶显示器		
公开(公告)号	KR1020020091448A	公开(公告)日	2002-12-06
申请号	KR1020010030125	申请日	2001-05-30
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IPC分类号	G02F1/133		
其他公开文献	KR100453361B1		
外部链接	Espacenet		

摘要(译)

本发明公开了一种平面切换液晶显示器。在平面切换中，本发明的液晶显示器可以包括保持液晶盒间隙的上板和下板，绝缘层设置在下板上并通过通孔分开，将下板暴露为多个，分别相互配置的公共电极和像素电极相邻的绝缘层的两侧相对。根据本发明，公共电极和像素电极形成成为水槽型（V型）结构，并且由于在电极之间形成直线电场和半圆形电场，响应速度提高，透射率提高，改善余像，可以实现液晶的可视性提高等。

