

(19) (KR)
(12) (B1)

(51) 。 Int. Cl. ⁷ G02F 1/133	(45) (11) (24)	2004 10 15 10-0453361 2004 10 07
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(21)	10-2001-0030125	(65)	10-2002-0091448
(22)	2001 05 30	(43)	2002 12 06

(73)

136-1

(72)

699-7 3 301-1403

2 535-26

(74)

:

(54)

가 (V)

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

가

1

2

(2) , 1 , 4 1 , 3 1 , 5 2 , 7 2 , 6 2 , 1 2 , (22) (28) , (34) (36) , (32) , 1 3 , (20) (22), (24), (26) / (28a)(28b) (34) , (36) (32) (30) , (28), (24) (30) , (36) (32)(34) 가 (field) 가 (l₁) 1 (38) (20); (20) , 4 (20) (20) (36) (34) , (36) (32) (34) , (36) (24) (30) , (20) (20) 10 90 (36) (d₁) (20) (3) 2) 3,000 20,000 , (32) (34) (34) (V) 가 (36) (32) , (34) , (32) (34) (w₁) 2 15 μm , (20) (38) (l₁) (d₁) 6 μm , (32) (34) (32) (34) (36) (332) (34) (32)(34) () 가 (32)(34) 가 () , , 2 (52) , 5 , (58) , (66) , (66) (62) (64) 2 , 6 , (52), (54), (56) / (58a)(58b) (64) , (58), (66) (54) (56) (62) (64) , (66) (62) (field) 가 (l₂) 2 (68) (50) , (50) , 7 , (50) (66) (66)

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

가 가
 (V) 가
 가
 가
 가
 가

(57)

1.

;

;

2.

1

가 3,000 20,000

3.

2

가 10 90

4.

1

2 15 μm

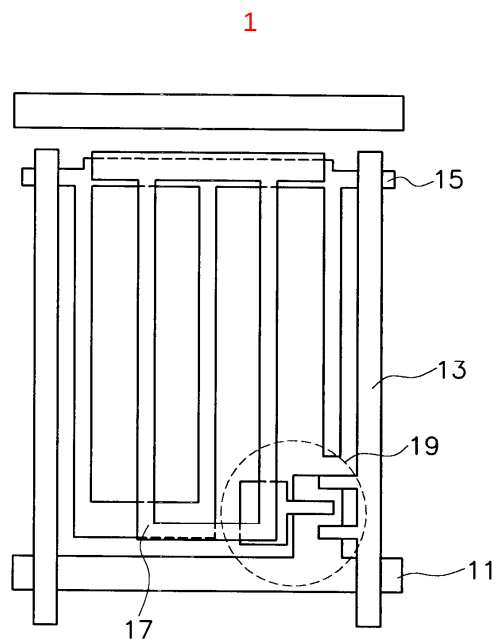
5.

1

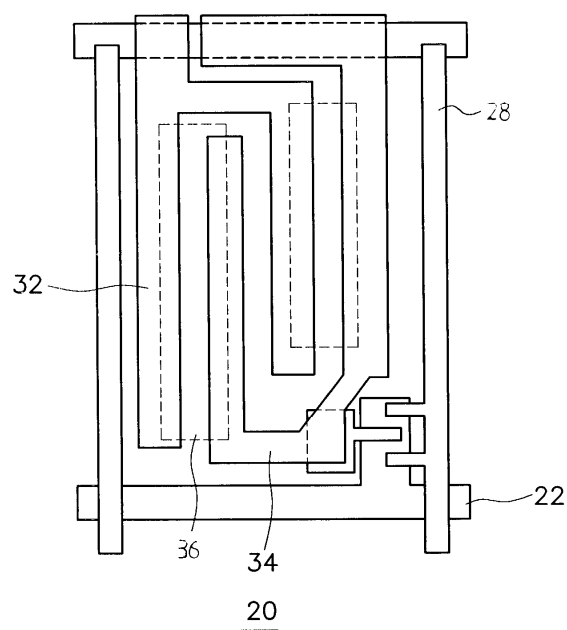
6 μm

6.

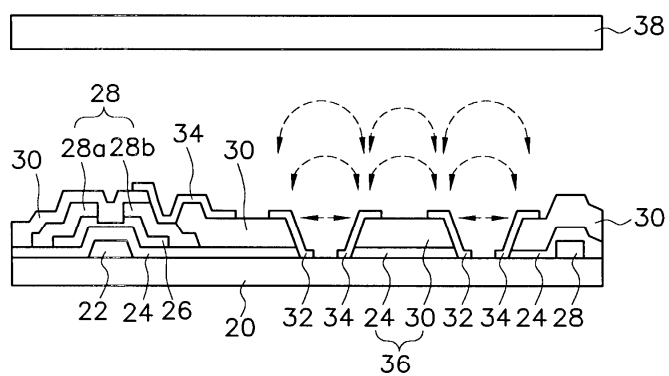
7. , 가 3,000 20,000
8. , 가 10 90
9. , 2 15 μm
10. , 6 μm



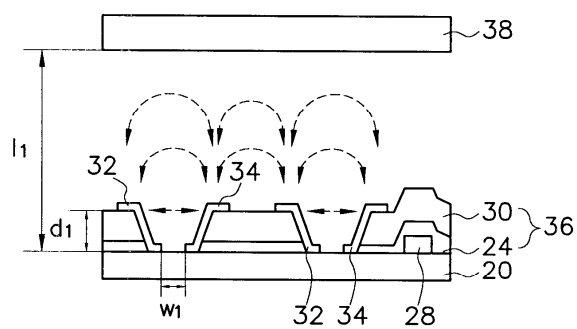
2



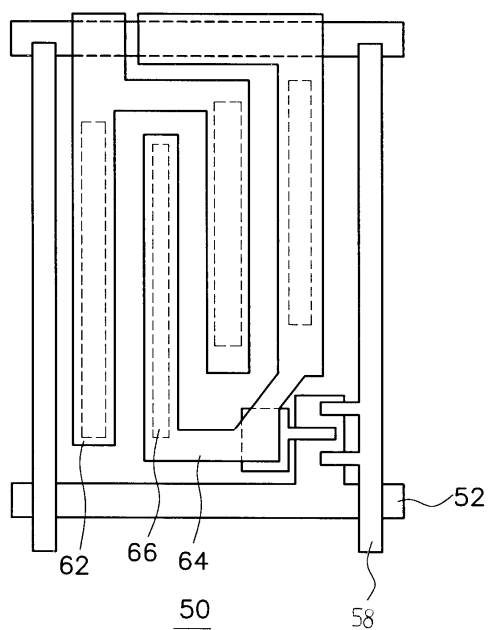
3



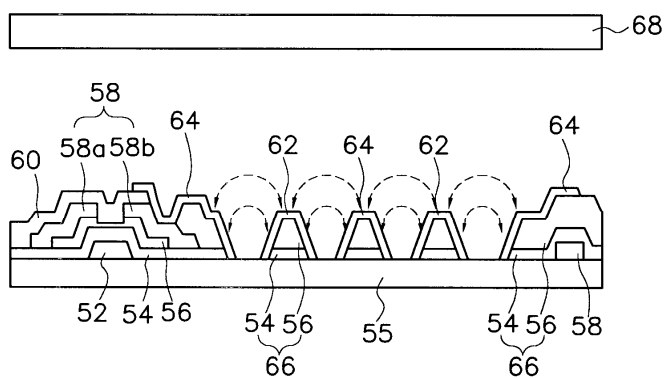
4



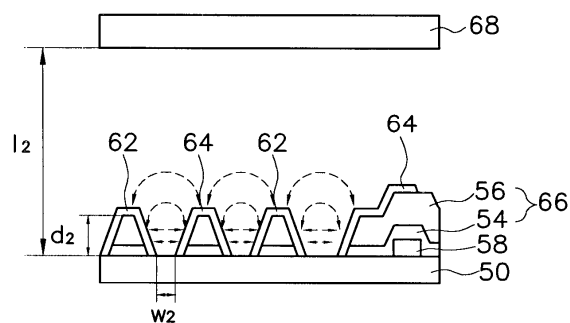
5



6



7



专利名称(译)	充气开关液晶显示器		
公开(公告)号	KR100453361B1	公开(公告)日	2004-10-15
申请号	KR1020010030125	申请日	2001-05-30
[标]申请(专利权)人(译)	HYDIS TECH HYDIS技术有限公司		
申请(专利权)人(译)	하이디스테크놀로지주식회사		
当前申请(专利权)人(译)	하이디스테크놀로지주식회사		
[标]发明人	LEE KYUNGHA 이경하 PARK SEUNGYIK 박승익		
发明人	이경하 박승익		
IPC分类号	G02F1/133		
其他公开文献	KR1020020091448A		
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。

