

(19)
(12)(KR)
(B1)(51) 。 Int. Cl.⁷
G02F 1/133(45)
(11)
(24)2004 09 10
10-0448047
2004 09 01(21) 10-2000-0075512
(22) 2000 12 12(65) 10-2002-0046024
(43) 2002 06 20

(73)

136-1

(72)

699-7 3 301-1403

3 1162 6 1010

(74)

:

(54)

2 ITO , 1 ITO , 2 ITO ;
2 ITO , 1 ITO , 1 ITO , 2 ITO
가 .

2b

1 FFS(Fringe Field Switching)
2a 2b CFS(Cross Field Switching)
3
4a 4b CFS
* *
2: , 4: 1 ITO ,
6: 2 ITO , 8: ,

10: / , 12:TFT ,
14: 16:

, , 1 ITO 2 ITO
(LCD; Liquid Crystal Display) , PC (CR
T) , 가 가 , (Vcom)
FFS(Fringe Field Switching) 1 ITO (4) (Vsig) 2 ITO 1 (6) ()
(Vcom) (Vsig)
, , 1 , 8 , 10 / , 12
TFT
, FFS TN , ITO
, , , 1 ITO 2 ITO
, , , ,
; , 1 ITO 2 ITO ;
1 ITO 1 ITO 2 ITO
, 1 ITO 가 2 ITO
, 2 ITO 1 ITO 1 ITO 2 ITO 10 μ m
, , ,
; 1 ITO 2 ITO ;
, 1 ITO 2 ITO , 1 ITO ,
, , 가 ()
2a 2b CFS(Cross Field Switching)
3 ,
, FFS 가
, , 1 ITO 2 ITO
FFS 1 2 ITO 2a 2b
/ , 3 , ,

(4) 2a 2b (14) 1 ITO (4) 2 ITO (6) 1 ITO
 (Vcom), (Vsig), (Vcom), (Vsig), (Vcom), (Vsig), (Vcom), (Vsig), (Vcom), (Vsig), (Vcom), (Vsig)
 (6) 2 ITO (6) (W2) 1 ITO (4) (W1)
 2b D1 1 ITO (4) D2 2 ITO (6)
 (Fringe Field)가 3 1 ITO (4) 2 ITO (6)
 (lateral field)가 1 ITO (4) 2 ITO (6)
 (14) (16)
 FFS CFS
 4a 4b 1 ITO (4) (Vcom), (Vsig), (Vcom)
 (Vsig), 2 ITO (6) 1 ITO (4) (Vcom)
 가 (Vcom) (Vsig)
 4a 8 , 10 /
 (Vsig) (Cst) 가 , ITO (Vcom)

(57)

1.

;
 ;
 ITO ; 1 ITO 2
 1 ITO 2 ITO 2 ITO 1 ITO
 가

2.

1 2 ITO 1 ITO

3.

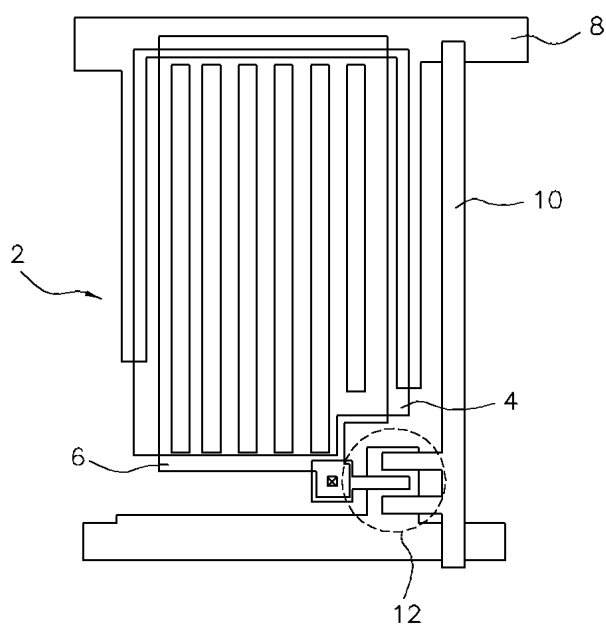
1 1 ITO 2 ITO 10 μ m

4.

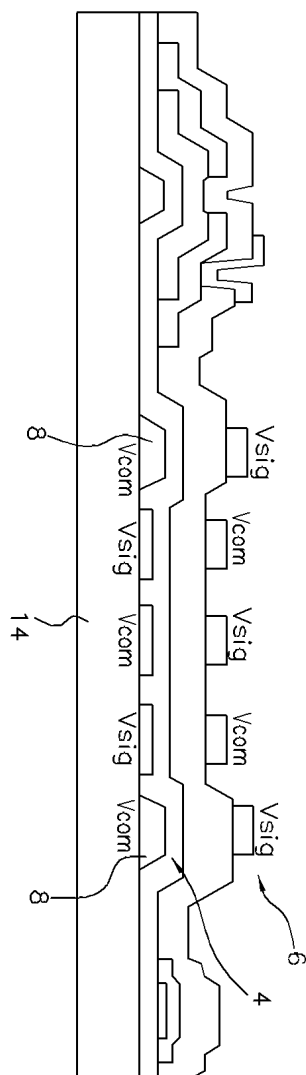
;

가

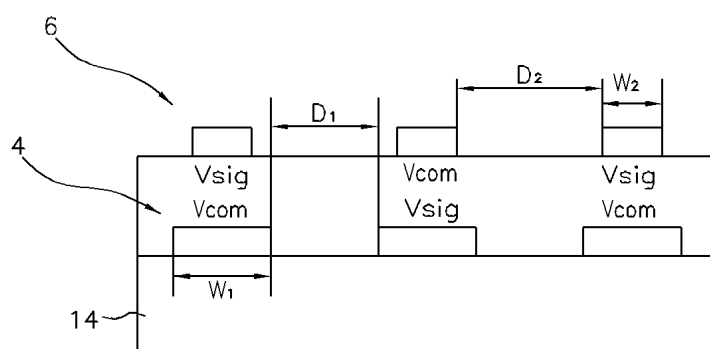
1



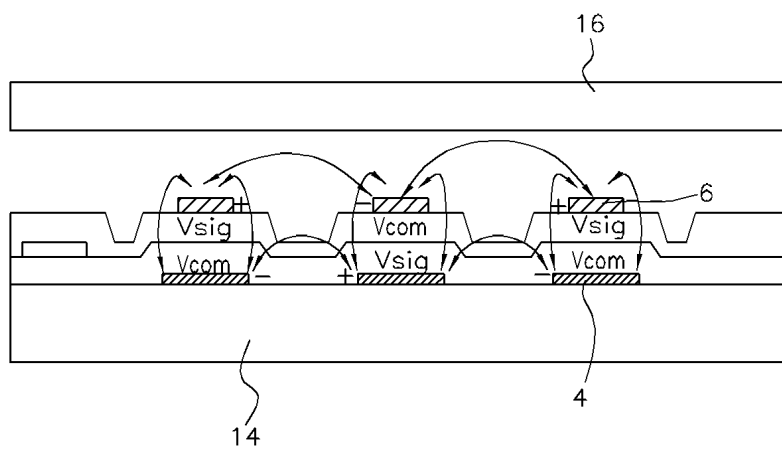
2a



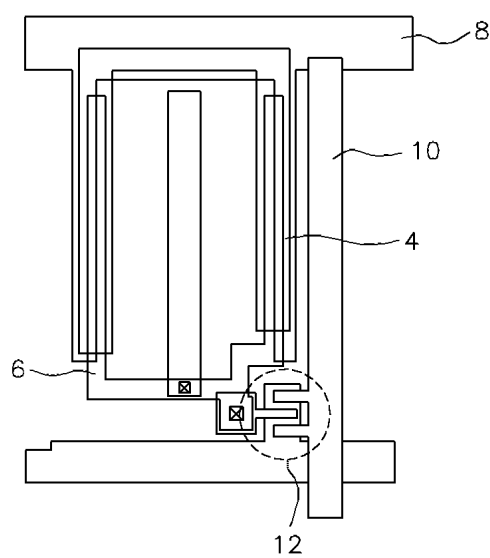
2b



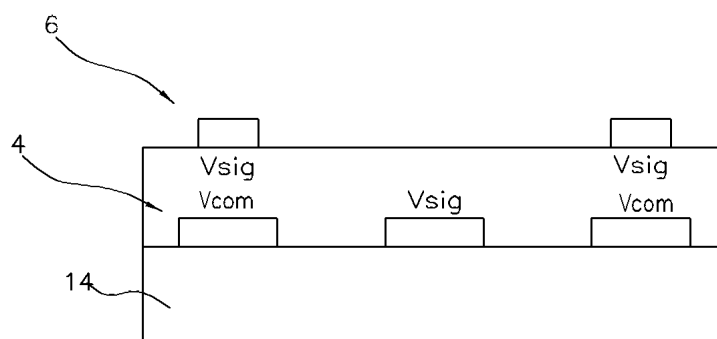
3



4a



4b



专利名称(译)	具有改善的余像的液晶显示器		
公开(公告)号	KR100448047B1	公开(公告)日	2004-09-10
申请号	KR1020000075512	申请日	2000-12-12
[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 LEE JUNGYEAL 이정열		
发明人	이경하 이정열		
IPC分类号	G02F1/133		
其他公开文献	KR1020020046024A		
外部链接	Espacenet		

摘要(译)

用途：提供液晶显示器，以提高透射率，降低驱动电压和改善残留图像。组成：第一ITO层（4）被图案化成按照信号电极（Vsig），公共电极（Vcom）和形成在玻璃基板（14）上的信号电极（Vsig）的顺序排列的电极。将第二ITO层（6）图案化成按公共电极，信号电极和位于第一ITO层上方的公共电极的顺序排列的电极。在上述结构中，公共电极和信号电极具有彼此交叉的电场。由第一ITO层形成的公共电极和信号电极之间的距离以及由第二ITO层形成的公共电极和信号电极之间的距离小于10微米。

