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2002 06 08(21) 10 - 2000 - 0072279
(22) 2000 12 01

(71) 136 - 1

(72) 304 - 7

123 609 505

가 1 3 206

9 207 602

(74)

:

(54)

FFS , FFS 2 가

가 , FFS 2 2nd ITO Vdd가

1st ITO Vdd가 가

, FFS 2 DC 가 , DC

1 FFS ,

2 FFS ,

3 FFS ,

4 FFS .

* *

2: , 4,4': 1 ,

6,6': , 8: 2 ,

10: , 12: .

FFS , , ,

FFS .

(LCD; Liquid Crystal Display) ,

PC , .

(CRT)

.(

(Pattern) 가 ,

TN IPS(InPlane Switching) FFS(Fringe

Field Switching) .

가 DC ,

LCD (Inplane Switching) TN 가

1 FFS .

, (2) ITO (Vcom; 4) , (6) .
 (Vdd; 8) (6) .

2 FFS .

, (8) 가

(0) . , 10

DC 가 . , 12

DC .

, DC .

가 .

, FFS 2 가 DC

가 FFS .

, 2nd ITO Vdd가 가 , FFS 1st ITO 2 Vdd가 가 FFS

가 .

, 1st ITO , 1 2

, 2 1st ITO , 2

1st ITO 2nd ITO , 1 ITO TFT 2

1st ITO .

, 1st ITO

, 1 1st ITO가 , 2 , , 1 ,

2 1st ITO 2nd ITO , 1

ITO TFT 2 1st ITO .

, 1st ITO , 2nd ITO FFS 가 가 .

, .

, (8) (, A, B) , (B

, A ITO (8) (Vdd) 가 , (B

) ITO (4') (Vdd) 가 . , Vcom

, (A, B) 가 가 (8)

DC

, 3 FFS

ITO , Vcom ITO (4, 4') (8) (A, B)

(Common Line) Vdd

(6') (A, B) (Hole)

2 ITO(8) ITO(4, 4') 1 ITO

(4) Vcom (A) 2 ITO Vdd가 가 , 1 ITO (4') Vdd

(B) 2 ITO Vcom

가 ITO 가

0

4 FFS

, Vcom 1st ITO (4) 2nd ITO (8)

(10) (TFT)가 , (TFT)

2nd ITO(8) 1st ITO(4')

, 1st ITO(4, 4') 2nd ITO(8) (6') ,

(6') (Hole)

가 FFS (Vdd)가 (TFT)

2nd ITO(8) 1st ITO (4') Vdd가 ,

FFS

, 1 ITO (4, 4') , (8) (A, B) ITO

(4, 4') Vcom (Common Line) Vdd

(6') (A, B) (Hole)

2 ITO(8) ITO(4, 4') 1 ITO (4)

Vcom (A) 2 ITO Vdd가 가 , 1 ITO (4') Vdd (B)

2 ITO Vcom

가 ITO 가

0

FFS

가

, FFS FFS 2
DC 가

(57)

1.

FFS 2 , 2nd ITO Vdd가 가 ,
1st ITO Vdd가 가
FFS .

2.

1 , , 1st ITO ,
1 2 , 2 1st ITO ,
2 1st ITO 2nd ITO , 1 ITO TFT
2 1st ITO FFS .

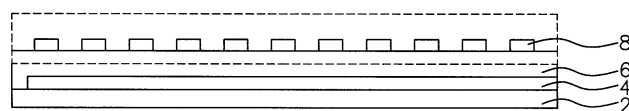
3.

1 , 1st ITO ,
1 1st ITO가 , 2 ,
2 1st ITO 2nd ITO , 1 ,
ITO TFT 2 1st ITO FFS

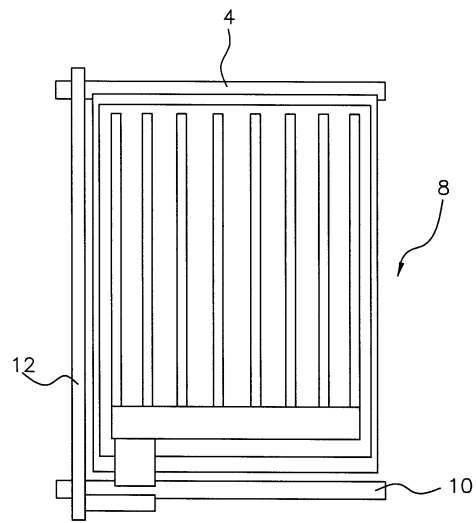
4.

1 , 1st ITO , 2nd ITO 가
FFS .

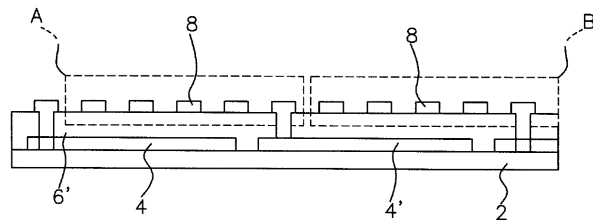
1



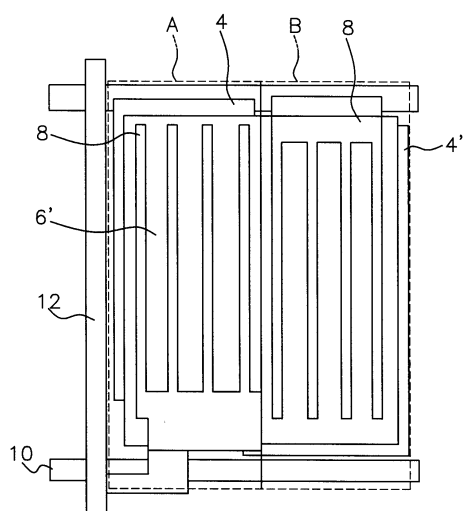
2



3



4



专利名称(译)	F-FES模式的薄膜液晶显示器用于改善屏幕特性		
公开(公告)号	KR1020020042920A	公开(公告)日	2002-06-08
申请号	KR1020000072279	申请日	2000-12-01
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IPC分类号	G02F1/1368 G02F1/136 G02F1/1343 G09F9/30 G02F1/1337 H04N5/66 G09F9/35		
CPC分类号	G02F1/134363		
其他公开文献	KR100713882B1		
外部链接	Espacenet		

摘要(译)

用途：提供具有改进图像特性的FFS模式薄膜液晶显示器，以消除由剩余DC电压引起的图像残留，从而改善对比度和图像质量。

