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2002 - 0013158
2002 02 20

(21) 10 - 2000 - 0046621
(22) 2000 08 11

(71) .
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20

(72) 43 - 8

6 449 106 - 13 05

(74)
:

(54)

- 1
- 2 1
- 3a 2 A - A'
- 3b 2 B - B'
- 4 2
- 5 3
- 6 3
- 7a 5 A - A'
- 7b 5 B - B'
- 7c 5 C - C'

21,21a : 22,22a :

23 : 24 :

25 : 30 :

31 :

al Display)(, " TFT - LCD") 가 (Thin Film Transistor - Liquid Cryst , TFT - LCD 가 (Contrast Ratio)가 가 (Twisted Nematic) , (Multi domain) 가

(In Plane Switching Mode) 가

1 , .
 , .
 1 , (11,11a) (12,12)
 a) , (Zigzag)
 (14) , (14) (11,11a)
 (15) , (12,12a)
 (14) (13) ,
 (19)
 , (15) (11,11a), (14)
 , (Al), (Mo), (Ta) (Sputtering)
 (19) (11) , (12)
 (13)

가 (Gray level)
 (Flicker) (Storage Capacitor)
 (n - 1) n (Storage On Gate
 : SOG) , (Storage On
 Common : SOC)

SOC ,
 , (14) (15) (15)
 (13) (Overlap)

가 가 (Disclination) 가
 , SOC
 ,
 (Short)

1

2 1 3b 2 B-B' 3a

2 A-A'

2 3a 3b 1 3a

(22,22a) , (21,21a) (21,21a) (21,21a) (22, 22a)

(22, 22a)

(23) (23) (23) (24) (23) , (24) ,

(21, 21a) (22, 22a), (23) (24) (25)

(25) (Stripe) (21a)

(24) (25) (23)

(25)

(21,21a) (Al), (Ta), (Mo),

(25) (24) ITO(Indium Tin Oxide), IZO(Indium Zinc

Oxide) (23) (24)

(21,22a) (22,22a) (22,22a) (23) (23) (24) (30) (31)

(SiN_x) (SiO_x) (21, 21a) (31) BCB(Benzocyclobutene)

1 (D)

inclination) (25) (23) (25)

3a (25) (25)

1 (25)

2

2 1

4 2

가 1 (mode) 가 1 (mode) (Normal) 2

가 가 1 가

가 가 2 가

3

3 가

1 2

3 가

5 3

6 3 7b 5 B-B' 7c 5 C-C' 7a 5 A-A'

5 (21,21a) (21,21a)

21a) (22, 22a) (22,22a) (22,22a) (21,

(23) , (24) , (21,21a) (23) (22,22a), (Stripe) (23) (24) (25)

(24) (25) (23) , ITO IZO

1 (23) 6 (23a) , 2 (23b) 1 (23a) , (25) 가 1, 2 (25) 가 (23) , 가 .

7a 5 A - A' 가 (25) , 3 7c (25) (23) (25) 가 .

(23) (23) (22,22a) (31) (30) (21,21a) (31) (23) (25) (24)

(TFT) (22, 22a) (21, 21a) (23) (21, 21a) (22, 22a)

가 .

(delay)

(57)

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9.

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10.

8

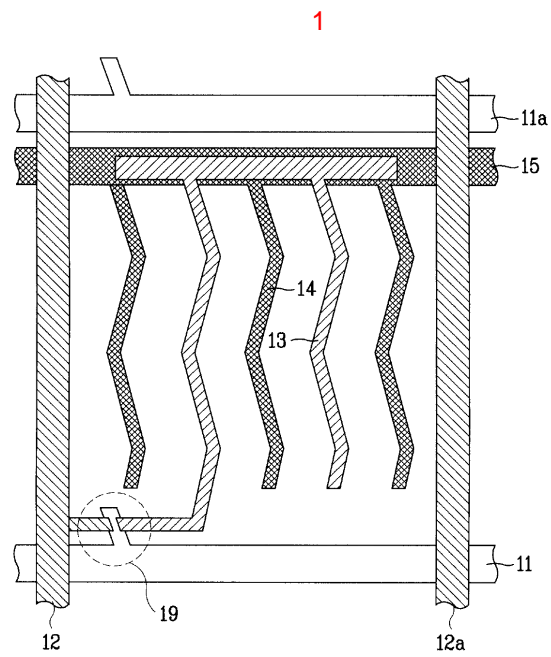
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8

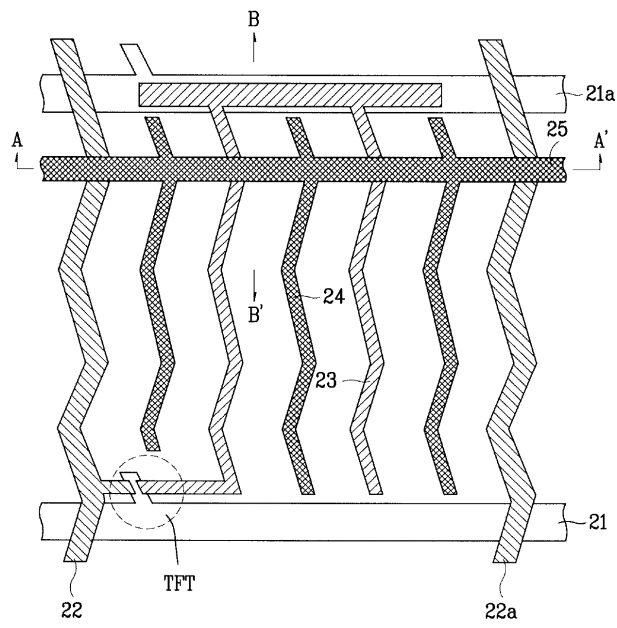
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2

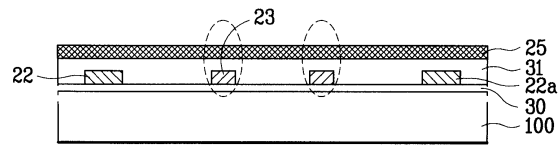
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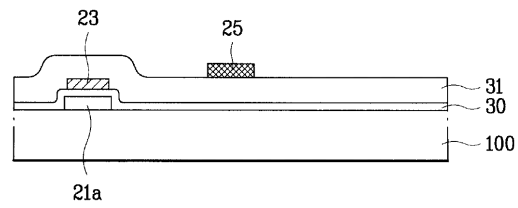
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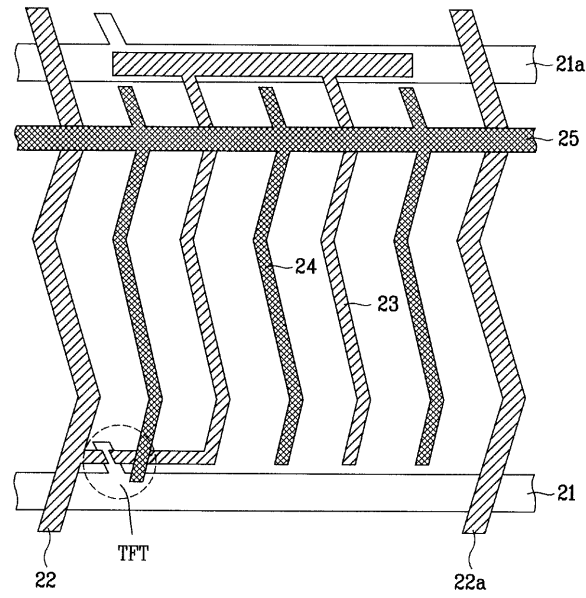
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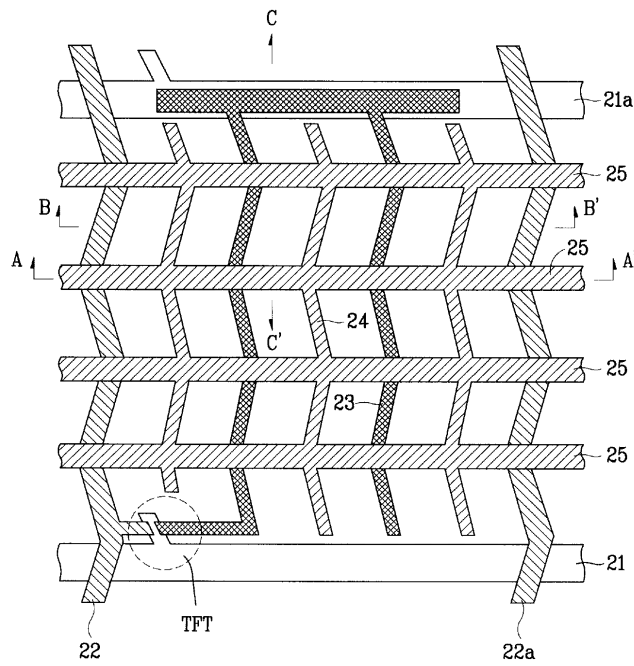
3b



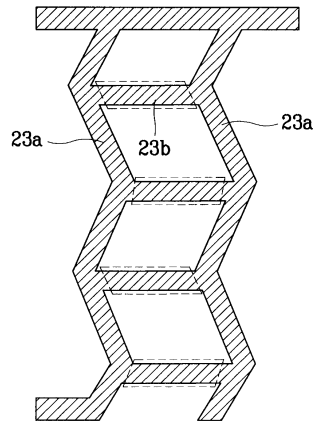
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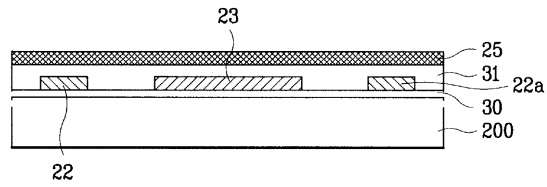
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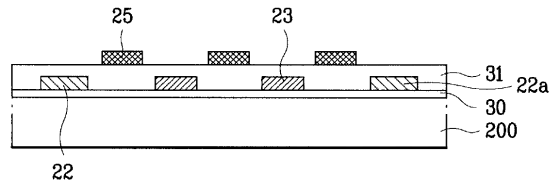
6



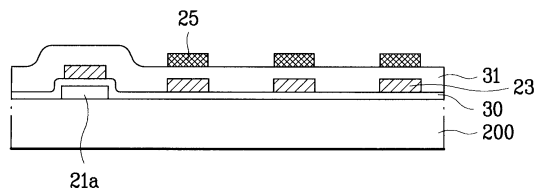
7a



7b



7c



专利名称(译)	横向电场型液晶显示器		
公开(公告)号	KR1020020013158A	公开(公告)日	2002-02-20
申请号	KR1020000046621	申请日	2000-08-11
[标]申请(专利权)人(译)	乐金显示有限公司		
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当前申请(专利权)人(译)	LG显示器有限公司		
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IPC分类号	G02F1/1362 G02F1/1343 G02F1/136		
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代理人(译)	金勇 新昌		
其他公开文献	KR100348288B1		
外部链接	Espacenet		

摘要(译)

本发明涉及改善孔径比和工艺余量以及提供适当的面内切换模式液晶器件以使前景最小化。并且，本发明的面内切换模式液晶装置形成在数据线的一侧，具有多个断裂部分，其与栅极布线交叉，所述栅极布线与形成的栅极布线在基板上交叉多个像素电极，具有多个断开部分，并形成在数据线内，并且像素区域由栅极布线限定为Z字形和每个像素电极。并且为了通过具有多个断开部分的公共电极并且形成有锯齿形状和数据线，并且断开公共电极和像素电极的每个部分，每个部分由与栅极平行形成的公共线构成。接线。积累量和前景。

