

(19)
(12)

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(24)

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2003 01 28

(21) 10 - 2000 - 0059694
(22) 2000 10 11

(65) 2001 - 0040054
(43) 2001 05 15

(30) 99 - 292967 1999 10 14 (JP)

(73) 가 가 가 1 7

(72) 1 - 8 - 24

(74)

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(54)

가

가

4

1 , TFT

2 , 1 TFT

3 , 2 A - A ' .

4 , .

5 , .

6 , TFT .

7 , .

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1:

2:

3:

4:

5:

7:

8:

9:

10:

11:

12:

13:

13a:

13b:

14:

15:

16,17: ,

18a,18b:

19:

20:

21: TFT

22:

30:

31:

32:

33:

34:

35:

36:

37:

40: TFT

41:

101:

119:

130:

132:

134:

135:

136:

137:

140: TFT

가

6 (Th

in Film Transistor: TFT (140)

TFT (140) (132) (IC)

(130), (130) (101) (136), (130) (119) (IC)

(134) (135) (137) 가

가 1

(30)()

(31)()

(30) 가 가 (32)

(31) (33)

(30) (32) (31) (33)

7 (41)

1 (13)

가

가 TFT 가

가

TFT

(Vp) 가 TFT

5 (Vg) , (Vp)

5(a) TFT 가 (Vs) , 5(c) TFT , 가 (Vg) , (Vp)

5(b) TFT 가 (Vs) , 5(c) TFT , 가 (Vg) , (Vp)

5(c) Vsc 가 Vcom Vp 가 , 5(c) Vcom , Vg, Vs, Vp

가

가

5(a) 가 TFT , 가 TFT

TFT (Vg) , 5(c) (Vp)

(Vp) 가 TFT (Vg) (Vp)

가 (Vp) (Vp) 가

$$(11) \quad (V_p) \quad (1)$$

$$V_p = (V_{gh} \times (C_{gdon} + C_{gp}) - V_{gl} \times (C_{gdoff} + C_{gp}) - V_s(C_{gdon} - C_{gdoff})) / (C_s + C_{lc} + C_{gdoff} + C_{gp})$$

(1)

Vp:

Vgh:

Cgdon: TFT 가 ON

Cgp:

Vgl:

Cgdoff: TFT 가 OFF

Vs:

Cs:

Clc:

$$(1) \quad (C_{gd}), \quad (C_s) \quad (V_p) \quad (C_{lc}),$$

$$(V_p) \quad TFT, \quad TFT$$

가 (Vp) (Vp) 가 (Vp) 가

가 , 가

1, TFT (40) (30) (31) (1) (19)

(32) (33) (30) (31) (30) (32) 가 40 μm × 120 μm, (31) (33) 가 400 μm (30) (32) (33) (31) 가, (30)

(19) 가 (1) (30) (19) (31)

TFT (40) (41) , 4 (30) (31) (13a) (13b) 가

(30) (31) (30,31) (1) (34) , (30,31) (IC) (36) (IC) (37) TFT (35) 가 가 , ,

2 (31) (33) (1) (19) (11) TFT (21) 가, (22)

3 TFT (40) (41) (41) (20) (15), (14), (11) (Indium Tin Oxide: ITO) (12) (11) (13) 가 (20) 가 가 , 가 가 (20) (11) (13) (11) (13) () .

, , ,
, 가 , ,
, .

2.

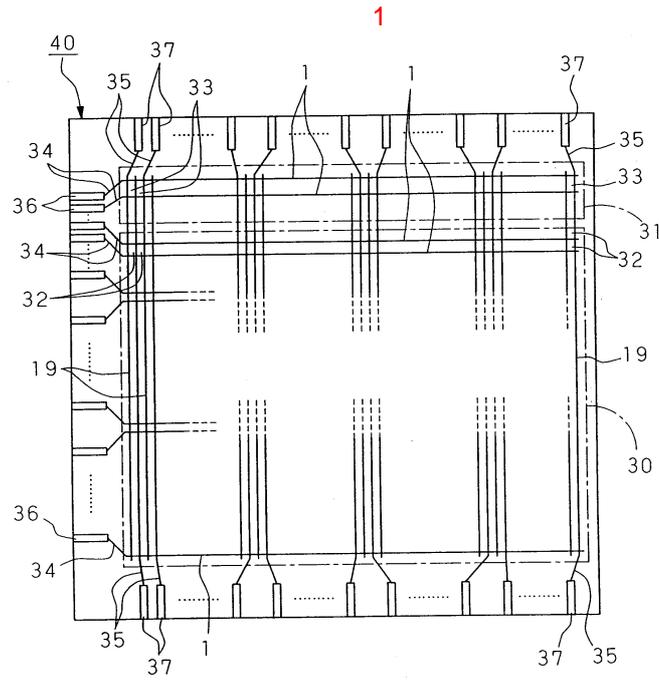
1 , 가,
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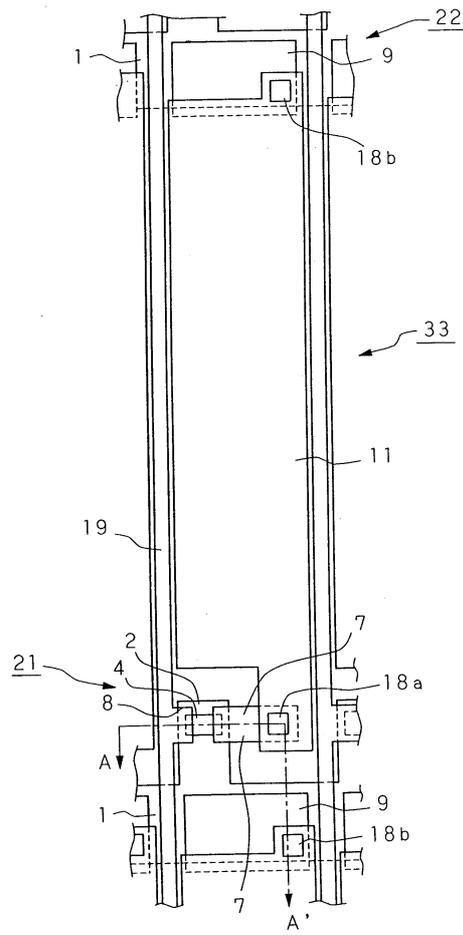
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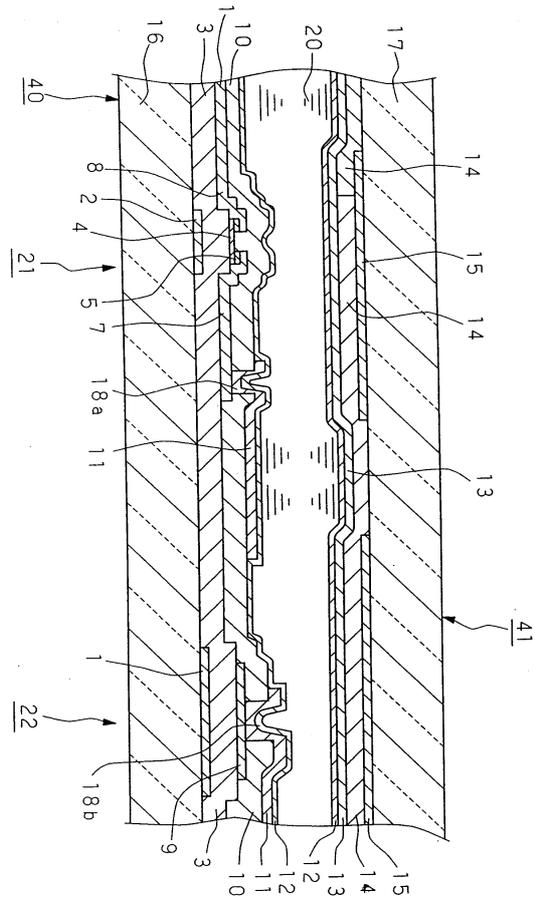
3 , 가 , 가 , ,
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가 .



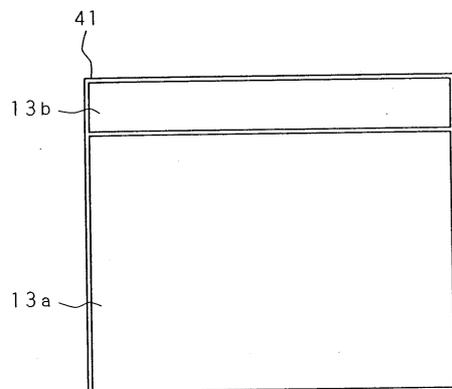
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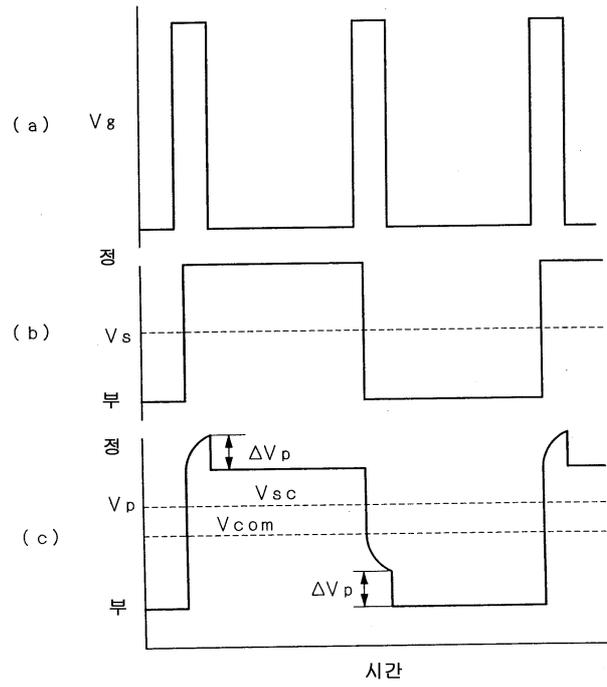
3



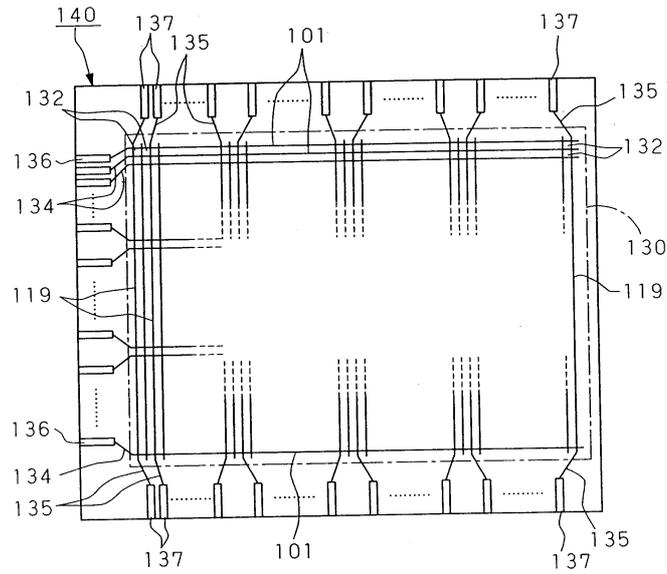
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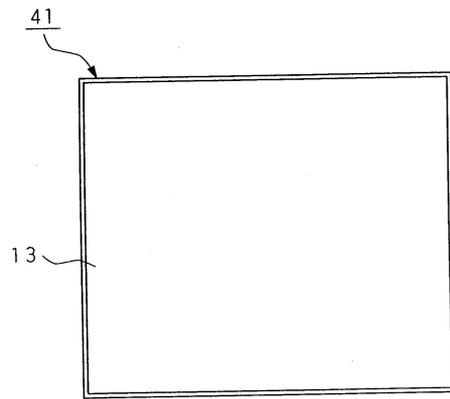
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6



7



专利名称(译)	有源矩阵型液晶显示器		
公开(公告)号	KR100371757B1	公开(公告)日	2003-02-11
申请号	KR1020000059694	申请日	2000-10-11
[标]申请(专利权)人(译)	阿尔卑斯电气株式会社		
申请(专利权)人(译)	阿尔卑斯电气有限公司		
当前申请(专利权)人(译)	阿尔卑斯电气有限公司		
[标]发明人	NAKANO AKIRA 나카노아끼라		
发明人	나카노아끼라		
IPC分类号	G02F1/133 G02F1/1343 G02F1/136 G02F1/1368 G09F9/30 G09G3/20 G09G3/36		
CPC分类号	G02F1/134336 G02F1/13306 G02F2001/133391 G02F2201/121 G02F2201/123 G09G3/3655 G09G3/3666 G09G2320/0219 G09G2320/0247 G09G2320/0257		
代理人(译)	Joyoungwon		
优先权	1999292967 1999-10-14 JP		
其他公开文献	KR1020010040054A		
外部链接	Espacenet		

摘要(译)

用途：为了防止在有源矩阵液晶显示装置中发生闪烁和烧灼，该有源矩阵液晶显示装置具有彼此不同像素区域尺寸的主显示区域和子显示区域。组成：对应于主显示区域的对电极和子显示区域被分开布置，并且根据像素区域的相应尺寸的最佳电压被施加到用于主显示区域的对电极和用于子显示区域的对电极。©KIPO & JPO 2002

