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G09G 3/30

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(43)

2002 - 0022572
2002 03 27

(21) 10 - 2001 - 0055687
(22) 2001 09 11

(30) JP - P - 2000 - 0028
5329
JP - P - 2001 - 0025 2000 09 20 (JP)
4850 2001 08 24 (JP)

(71) 가 가
2 4 - 1

(72) 가 가 3 - 3 - 5 가 가

(74)

:

(54)

가 (逆) 가

가 , (21, 22) V_{cc} GND
(10) (10) 가 ,

2

Tr1 Tr7 :

(Electro Luminescence) (, 「 」)

(逆) 가

Mg:Ag, Al:Li

ITO(Indium Tin Oxide)

8 (TFT) , 2 (Tr1, Tr2) , (10) (2) 8 (1)

(Tr1)가 (Tr2) P TFT 8 (2) V_{SEL} (low) (on)

1) (Tr2) V_{DATA} 가 (Tr1)가 (Tr (10)

8 가 9 9 (Tr2) (2)

V_{SEL} 9 T_w (Tr1)가 T_w 9

T_H

10 「 The Impact of Transient Response of Organic Light Emitting Diodes on the Design of Active Matrix OLED Displays」 (1998, IEEE IEDM98 - 875) 10 , Tr1 , T

r2 , Tr3 1 , Tr4 (2) 2

가 가 가 가 가 (輝度)

(2) 가 (4)

(Tr1, Tr4) P MOS, V_{SEL}
 (Tr2, Tr3) (4) 가 (2) V
 V_{SEL} (high) Tr2 Tr3 (2)
 (Tr1)가 V_{gp} (Tr4)가
 (10) 가 .

10 가 11 (4)
 V_{SEL} (2) T_w (Tr2, Tr3)
 V_{gp} 가 T_w (Tr1)가
 T_H .

12 11 - 272233 12 (10) (Tr1) (Tr1)
 (2) (2)
 (Tr5) (Tr7) V_{rscan} (10)
 V_{rsig} , Tr6 .

V_{DATA} (Tr6) (2) (Tr5) (Tr1)
 (10) (10) 13 (T
 r6) (2)가 (Tr5) V_{scan} (Tr1) 가
 (10) 가 .

가 ,

11 - 8064

가 , 가

가 가

1 , 1 가
 2 2 1 1 1
 2 가 1 , 1 2
 , 2 가 2

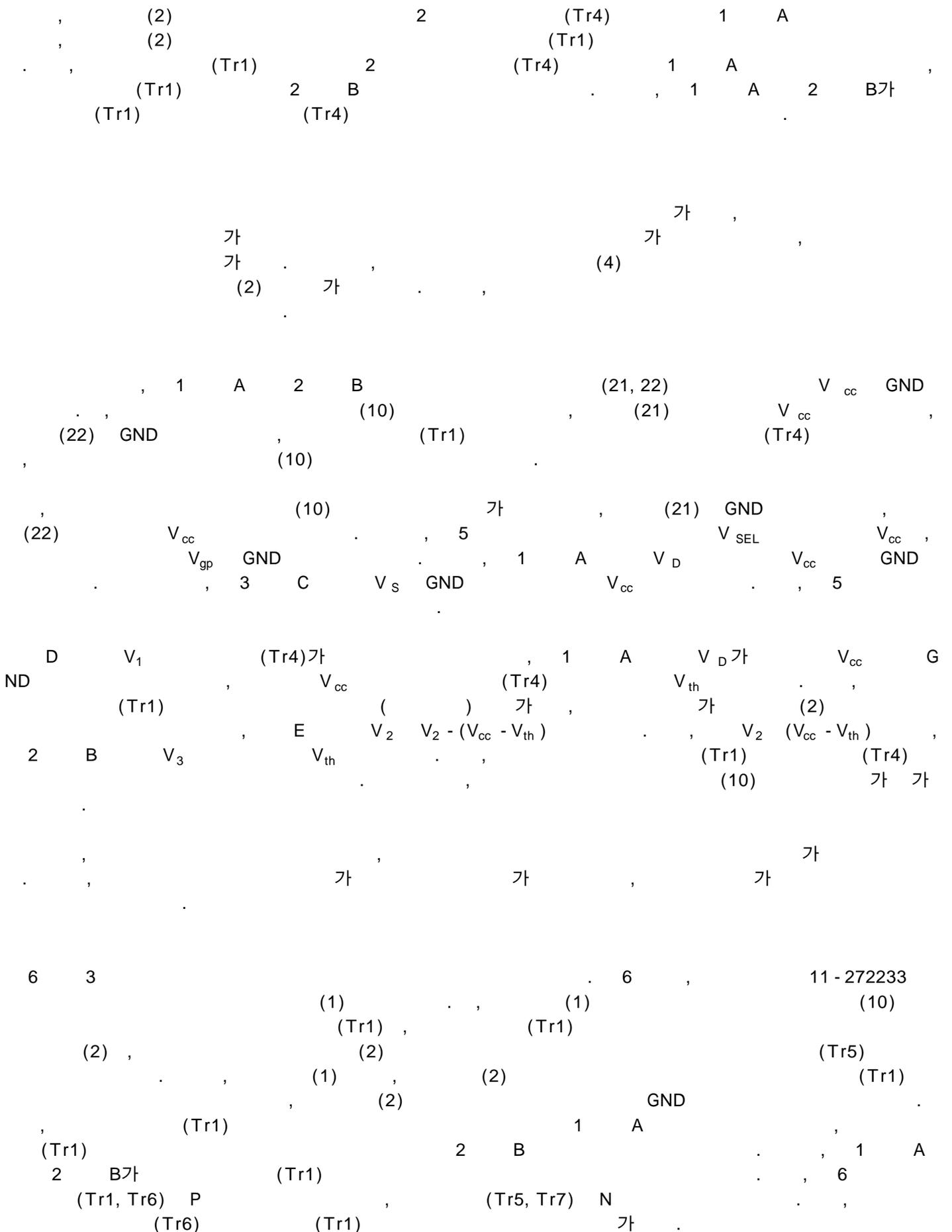


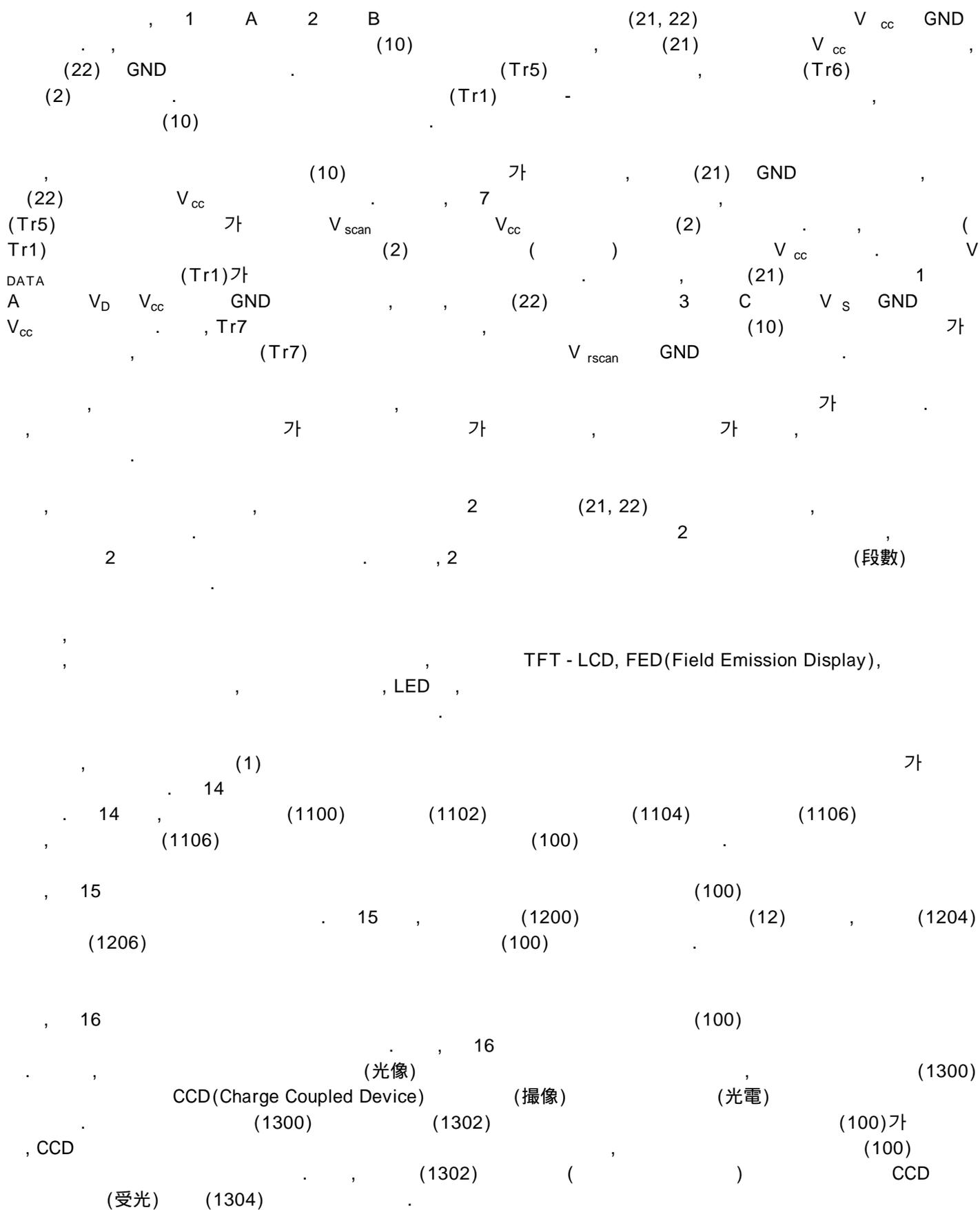
(21) 2 (GND) (10) (2), (22) 1 (V_{cc})
 1 가 1 (10) 1 A 2 , 2 B
 가 1 (V_{cc}) , (10) 가 B
 가 2 가 2
 (21, 22) 가
 가 GND 가 (21, 22)

2 1 2 , 8
 (1) (1) (10)
 (Tr1) , (Tr1) (2) ,
 (2) (2) (Tr2) (1)
 1 A (Tr1) (Tr1)
 (Tr1) 2 B 1 A 2 B가

1 A 2 B (21, 22)
 (22) GND (10) (1) (21) V_{cc}
 (10) (Tr1)
 (22) V_{cc} (10) (2) (21) GND V_{SEL}
 V_{cc} 1 A (V_D) V_{cc} GND (Tr1)
 3 C (V_S) GND V_{cc} (Tr1) ()
 가 V₁ V_D 가 (2) 1 A V_D가
 V_{cc} GND (Tr1) V₁ 3 C V_S
 2 B (Tr1) (V_{th}) 가 가
 V_{cc} (10) 가 가
 (21, 22) 가 가 가

4 2 4 , 10
 (1) (1) (10)
 (Tr1) , (Tr1) (2) ,
 (2) (Tr2) (1)





가 (1308) (1312) (1306) (1300) CCD 가 (1302)
 (1314) (1312) (1314)가 (1430)가 (1308)
 (1440)가 (1430) (1440)

(100)가 , 14 , 15
 , 16 (viewfinder) ,
 (car navigation) (pager),
 , POS ,
 (100)

, 1 1 2 2 가 가
 가 가 .

(57)

1.

가

1 1 1 2 2
 1 1 ,
 1 2 2

가 1 , 1 1 ,
 2 2 ,
 가 2 , 1 2 ,
 2 1

2.

1 ,
 (on) ,

,

1

,

,

1

2 가

.

3.

1

,

,

,

,

(off)

1

,

,

1

2 가

.

4.

1

,

,

,

,

,

,

1

2 가

.

5.

1 4 ,

가

6.

1 5 가

7.

1 1 , 1 2 2 , 1
2 , 2
1 , 2
1 2 ,
1 .

8.

7 ,

9.

1 1 , 1 2 2 , 1
2 , 2
1 , 2
1 2 ,
1 .

10.

9 ,

11.

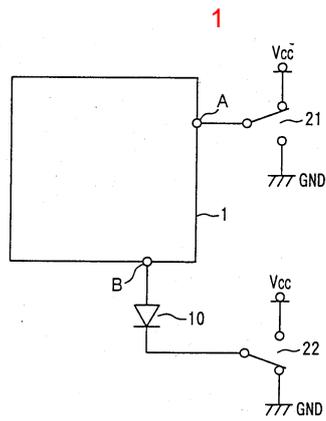
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(導通)

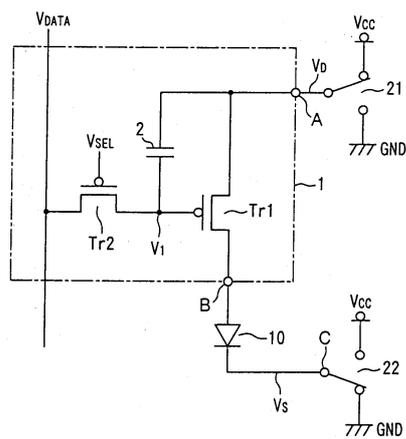
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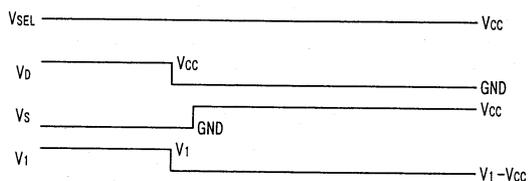
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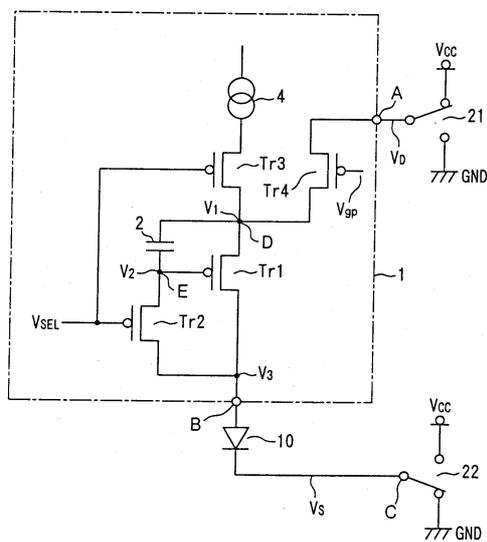
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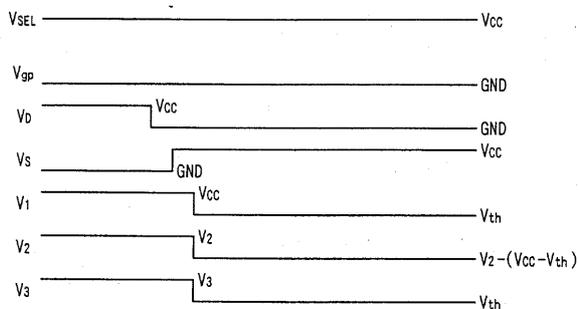
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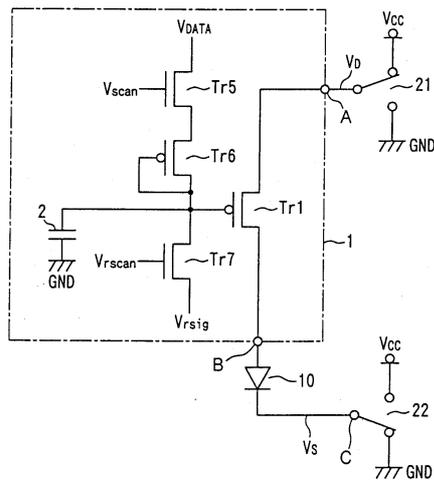
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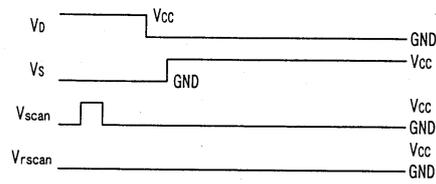
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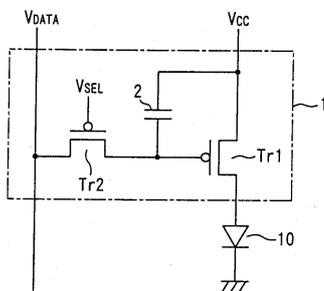
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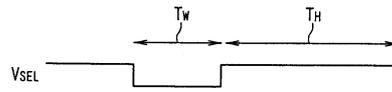
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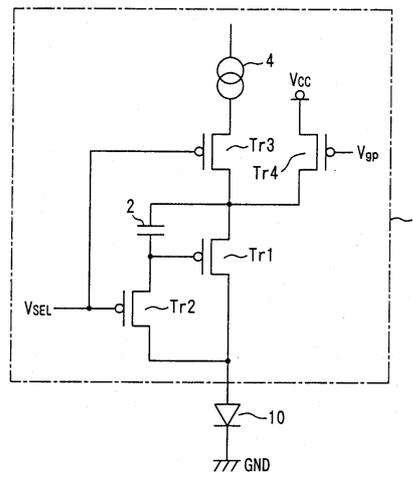
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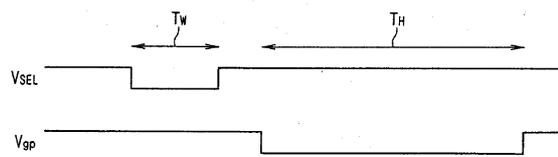
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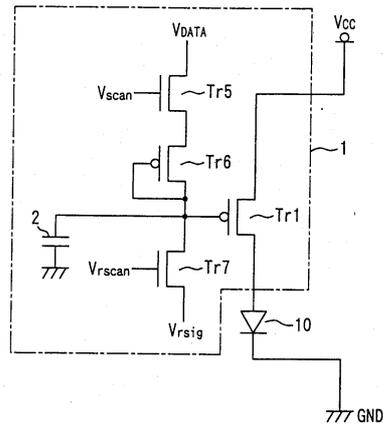
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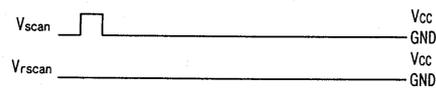
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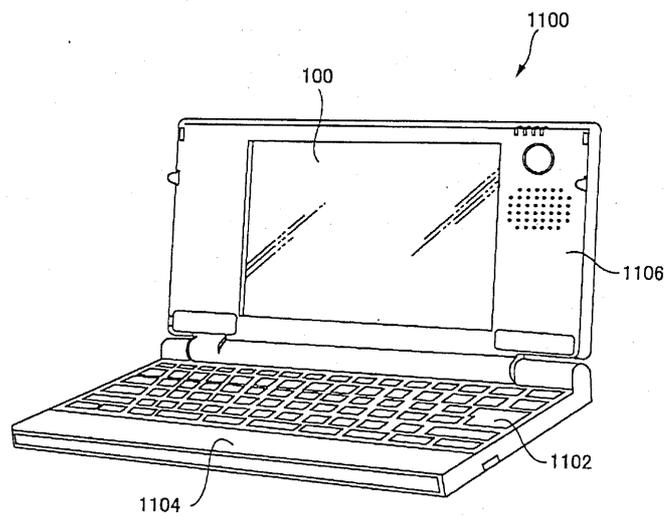
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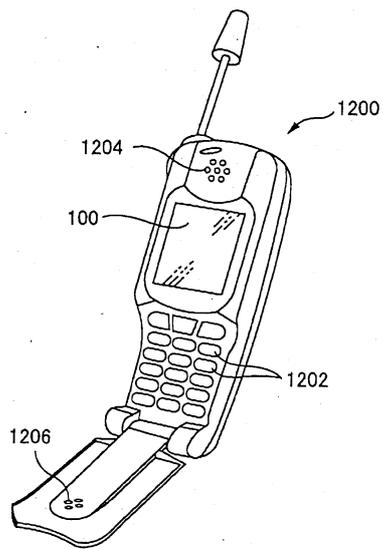
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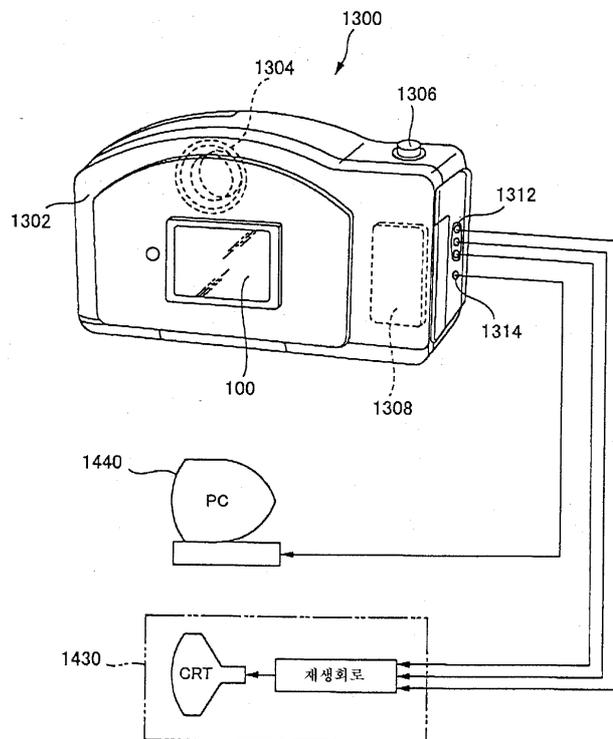
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15



16



专利名称(译)	有源矩阵型显示装置的驱动电路，电子装置，电子装置的驱动方法以及电子装置		
公开(公告)号	KR1020020022572A	公开(公告)日	2002-03-27
申请号	KR1020010055687	申请日	2001-09-11
[标]申请(专利权)人(译)	精工爱普生株式会社		
申请(专利权)人(译)	精工爱普生株式会社		
当前申请(专利权)人(译)	精工爱普生株式会社		
[标]发明人	KASAI TOSHIYUKI		
发明人	KASAI,TOSHIYUKI		
IPC分类号	G09G3/30 H01L51/50 G09G3/32 G09G3/20 H05B33/08		
CPC分类号	G09G2300/0842 G09G2300/0861 G09G2310/0262 G09G2320/043 G09G3/325 G09G2310/0251 G09G2300/0866 G09G3/3233 G09G2300/0819 G09G2310/0256		
代理人(译)	MOON, KI桑		
优先权	2000285329 2000-09-20 JP 2001254850 2001-08-24 JP		
外部链接	Espacenet		

摘要(译)

本发明的一个目的是实现一种有机电致发光元件驱动电路，该电路能够实现反向偏压的应用，而基本上不增加功耗和成本。在本发明中，通过切换开关(21,22)来切换电源电位Vcc和GND之间的连接关系。在不新近准备诸如负电源的附加电源的情况下实现向有机电致发光器件10施加反向偏压，并且延长了有机电致发光器件10的寿命。2 指数方面 电致发光元件，电容元件，有源矩阵， - 1 -

