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(12) (B1)

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G02F 1/1365

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(11)  
(24)

2004 11 17  
10-0457605  
2004 11 08

(21) 10-2001-0063758  
(22) 2001 10 16

(65)  
(43)

10-2002-0030718  
2002 04 25

(30) JP-P-2000-00317089 2000 10 17 (JP)

(73) 가 가 2 4-1

(72) 가 3 3-5 가 가  
가 가 3 3-5 가 가

(74)  
:

(54) ,

312-199) 1 G1 , 가 (312-1, 312-3, ..., (312-2, 312-4, ..., 312-200) 2 G2  
, (312-1 312-200) 1 가  
, G1, G2 (240) , 0V  
, (electrolytic corrosion) .

1

1 1 ,  
2 ,  
3 X ,  
4 ,  
5 Y ,  
6 ,  
7 Y ,



1, 1

2, 1, 2

2, 1, 2

가, K(K) 가

K, K, 0V

1, 2

2, 1, 2

2, 2

1, 1, 2

1, 2

2, 1, 2

2, 2

2, 1, 2

가, 1, 2

2, 1, 2

2, 3, 가

2, / /

1, 1

1, 2, K(K) 1, 2

1, 가, K

0V

가

(1. 1)

(1-1: )

2) (Y) (212) (312), (100)(312)(X) ( ) (21)

(116)가 (312) (31

2-2) (116) (118) TFD(Thin Film Diode : (220)  
 (118) (312)  
 (312) 200 (212) 160 , 200 x160  
 (100) 1 BL  
 (100) Y (350) Y1, Y2, ..., Y200  
 (312) Y (350) (312) 1  
 가 1 가 ( ) ( )  
 , X (250) , Y (350) (31  
 2) (116) X1, X2, ..., X160 , (212)  
 ) (350) Y (350)  
 (400) X (250) Y (350)  
 ±VD/2 , ±VS  
 (600) BL, (400) (500)  
 ±VD/2 (312) (212) 가 (212) 가  
 (1-2 : ) (正極) (負極)  
 ) (100) 2e (100) (200) X (200)  
 (250) Y (350a), (350b)가 COG(Chip On Glass)  
 Y (350a), (350b) 1 Y (350) 2 IC  
 , X (250)가 FPC(Flexible Printed Circuit) (150)  
 (400) (500)( 1 ) Y (350a), (350  
 b) X (250) Y (350) , (200) COG , TAB(Tape Aut  
 omated Bonding) 가 TCP(Tape Carrier Package) ,  
 , 3 (100) BL X  
 , 4 (100) , 3, 4 (300)  
 (300)  
 ( ) (114)가 (110) , STN  
 (Super Twisted Nematic) (160) (110) , 2  
 , (200) (160)  
 , 가 (112)  
 , 3, 4 (300) (302) (301)  
 , (301) , APC(Ag · Pt · Cu) . APC 98% ,  
 , 가 ( ) (301)  
 , (301) (303)가 (303)  
 (304)  
 (304) ITO(Indium Tin Oxide) (312)  
 (X) (312) ( ) ( )  
 가 (306) (300) ( ) (305) (306)  
 (306) (306) (30)  
 5) 가 (312) (110) (114) (240)  
 (240) , 가 (312) (240)  
 ITO , (240)

(300) , Y( ) (212) 가  
 (234) ( ) ( ) ( ) 가  
 (234) , ITO 가  
 (200) ( ) (205) (206) (206)  
 (300)  
 BL  
 5 Y (350a), (350b) 180  
 2 (100) (200)  
 (312) (interdigitally) (312)  
 (312-1, 312-3, ... 312-199) (110) ( 1 ) 1  
 G1 1 G1 (200) , Y (350a)  
 (312-2, 312-4, ... 312-200) (110) ( 2 ) 2 G2  
 2 G2 , Y (350b)  
 1 G1 2 G2 (240)  
 1 G1 가 , 2 G2  
 (1-3 : )  
 (200) (116) 6  
 6 (200) , ITO 200 (234) 1  
 (234) TFD(220) , TFD(220)  
 (212) T 1 (222) , 1  
 (222) (224) , 2 (226) (正負)  
 (200) (201) (201)가  
 2 (226)가 , 1 (222)가 , 1  
 (222) 가 (201)  
 (300) , ITO (312) (212)  
 (234) (234) , 1 (118) (212) (312)  
 (312) , (234) , (160)  
 (1-4 : )  
 1 (400) , 1 ( ) , 1  
 YD , 8 (1 ) , 1 1H , 8  
 YCLK , 8 MY 1H , 8  
 (1-5 : Y )  
 , Y (350) 7 Y (350)  
 (3502) YD 1 1H 200 , 1  
 YS1, YS2, ..., YS200 YCLK YS1, YS2, ..., YS200  
 1 , 2 , ..., 200 (312) 가 H  
 (312) (312) MY YS1, YS2, ..., YS200  
 (312) 가 (312) , +VS( ) , +VD/2( +V  
 S가 가 (312) 가 , -VS( ) , -VD/2( ) 4 , -VD/2  
 +VD/2 , -VS가 가 -VD/2  
 (3504) YS1, YS2, ..., YS200 가 H , MY  
 (312) (312)

(312) YS1, YS2, ..., YS200 가 L  
 (312) (312)

(3506) (3504)  
 (3508) 가

(1-6 : )  
 8 4 (100) 4 (1H , 1H )  
 , 1 4 Yj(j 1 200 )  
 , 1 (前回) 1H +VS 가 , +VD/2 가 )  
 (前回) 1H 가 (1 ) 1V , -VS 가 ,  
 가 -VD/2 가 Xi 가 ±VD/2  
 가 Yj+1 , -VS 가 Yj 1 1H ,

4 (1H , 1H ) Xi +VS 가 , (116)  
 ( , ) -VD/2 , (116)  
 (116) +VD/2 , -VS 가 ,  
 (312-1, 312-3, ..., 312-199) 1 G1 ,  
 (312-2, 312-4, ..., 312-200) 2 G2 . 1 G1 (240)  
 2 (240) Y1, Y3 t0 t3 3H , 8  
 , n Y1, Y3 t0 t3 3H ,  
 , +VD/2 t1 t4 3H ,  
 , -VD/2 Y2, Y4 t1 t4 Y2, Y4 2 G2 , 2

(312-1, 312-3, ..., 312-199) 1 1H ,  
 ..., 312-200) 2 G2 1 G1 , (312-2, 312-4, (240)  
 G1, G2 (240)  
 (200) (300)  
 (100)

(2. 2)  
 (400') 2 (400)  
 , 1 1H 1 1 가 MY 1 (400) , 8  
 400') 2 2H 1 MY' (400)  
 , 2 Y1, Y2, ... Y200 2 2H

9 Xi 2 4 (1H , 2H ) , (116) 가 Y1, Y2, Y3, Y4, ...  
 2H 1 , t0 t2 H , t2 t4 MY' 2  
 L YS2, ..., YS200 (312) (3504)( 7 ) YS1,  
 MY'

, n Y1, Y2 ,  
 Y3, Y4 , 1 가 0V  
 1 G1 2 G2 ,

, 10 G1, G2  
 (312) 2 2 G1 1 G1 2 G2 ,  
 , 1 G1 , (312-1) (312-2) (240)  
 Y1, Y2 , n t0 0V  
 t2 , (240)

2, 1 가 (240)  
 (200) (300)  
 (100)

(3. )  
 (1) 1 2 1 2 3  
 (312) 1  
 (212) 가 (312)  
 ) K 1 G1 2 , K(K )  
 (2) X (250) Y (350) G2 2 IC 11  
 (3) (100) W (312)  
 ) (100)  
 (4) (300) (312) (200) 1 G1  
 2 G2 (110) (300) Y (350) (300)  
 1 G1 2 G2 FPC (150) X  
 (250) (200) X (250) (110) (212) X  
 (250)

(5. )  
 ( 1 : )  
 (100) (1100) (1102) (1104) ,  
 (視認性)  
 BL  
 ( 2 : )  
 (100) (1200) (1202) (1204), (1206)  
 BL (100) (100) (100)  
 BL (200) (1200) 가 (100)

( 3 : )  
 (silver - film) (optical image)  
 (1300) CCD(Charge Coupled Device)  
 (100) , CCD (1300) (1302) ,  
 100) (1302) ( 14 ) ,  
 CCD 가 (100) (1306) , CCD  
 가 (1308) (1312) (1300) (1302)  
 (1314) (1312) (1314)가  
 (1330)가 (1320)가, (13  
 08) 가 (1320) (1330)  
 , 12 , 13 , 14  
 , POS ,

0V

(57)

1.

1, 1, 2, 1, K(K), 1, 2, 1, 2, 1, 2, 가, 가, 가, K

2.

1, 1, 2, 1, 2, 1, 2, 2, 2, 2, 2

3.

4.

1, 1, 2, 1, 2

5.

4, 1, 2, 1

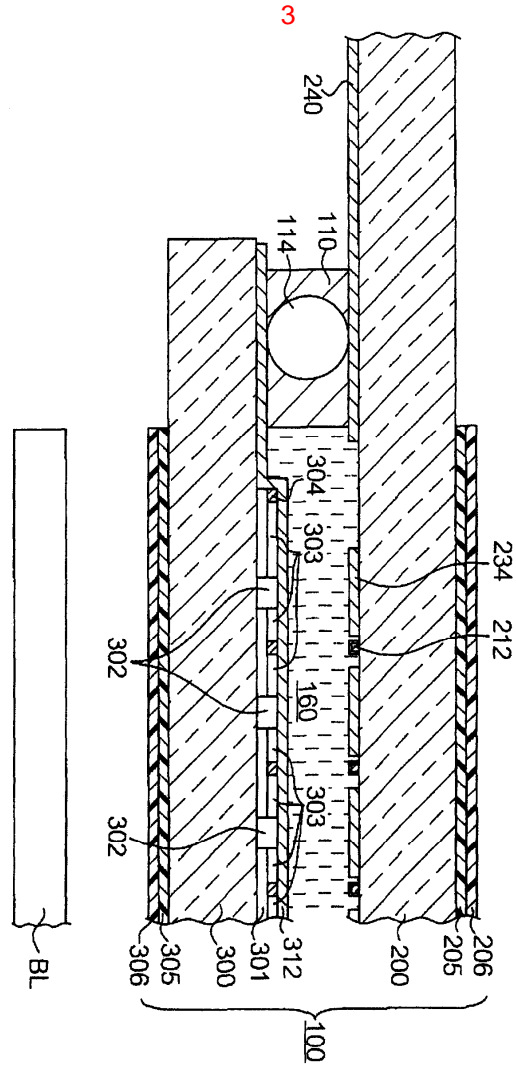
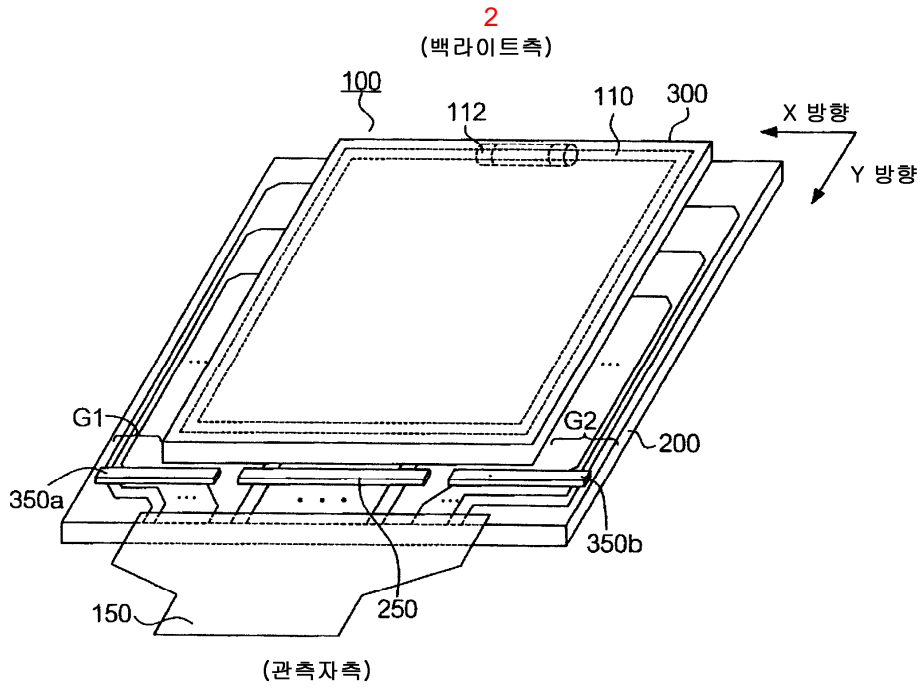
6.

1, 2, 4, 2, 5, /, /

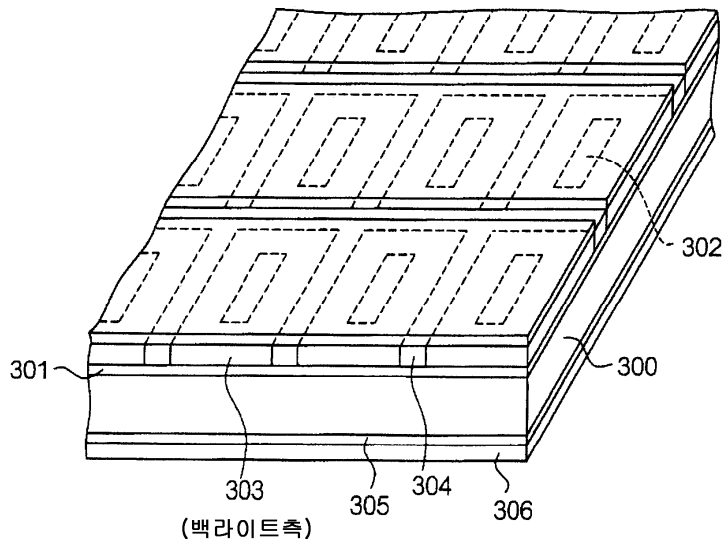
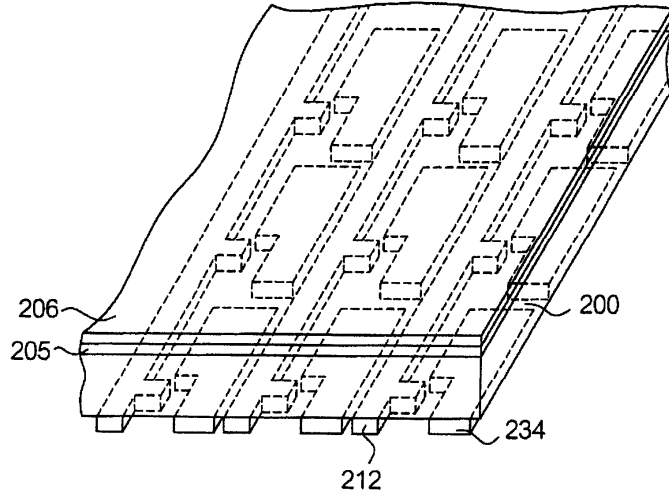
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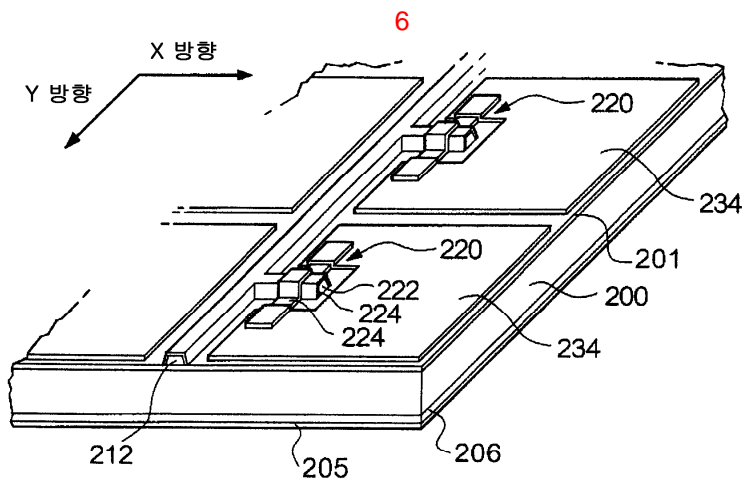
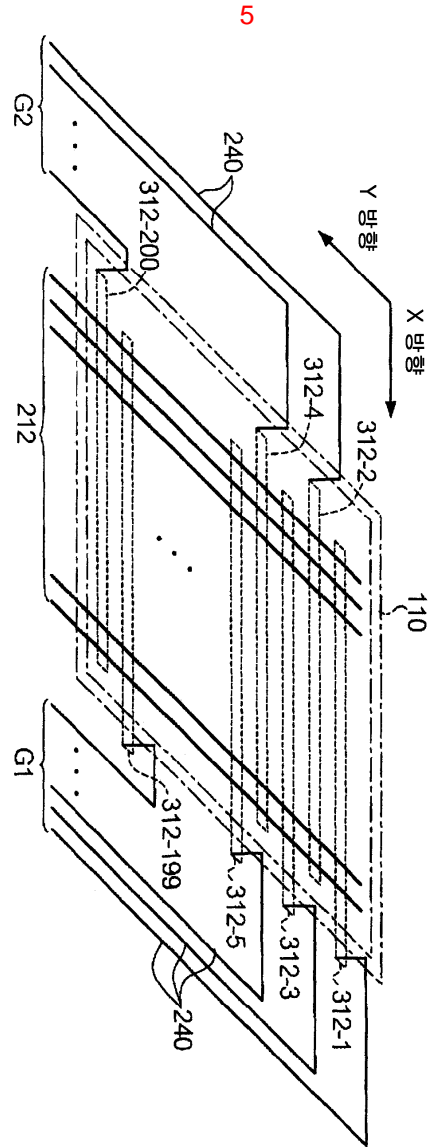
1, 2, 1, 1, 2, 2, 1, 2, K(K), 1, 2, 1, 2, 가, 가, 가

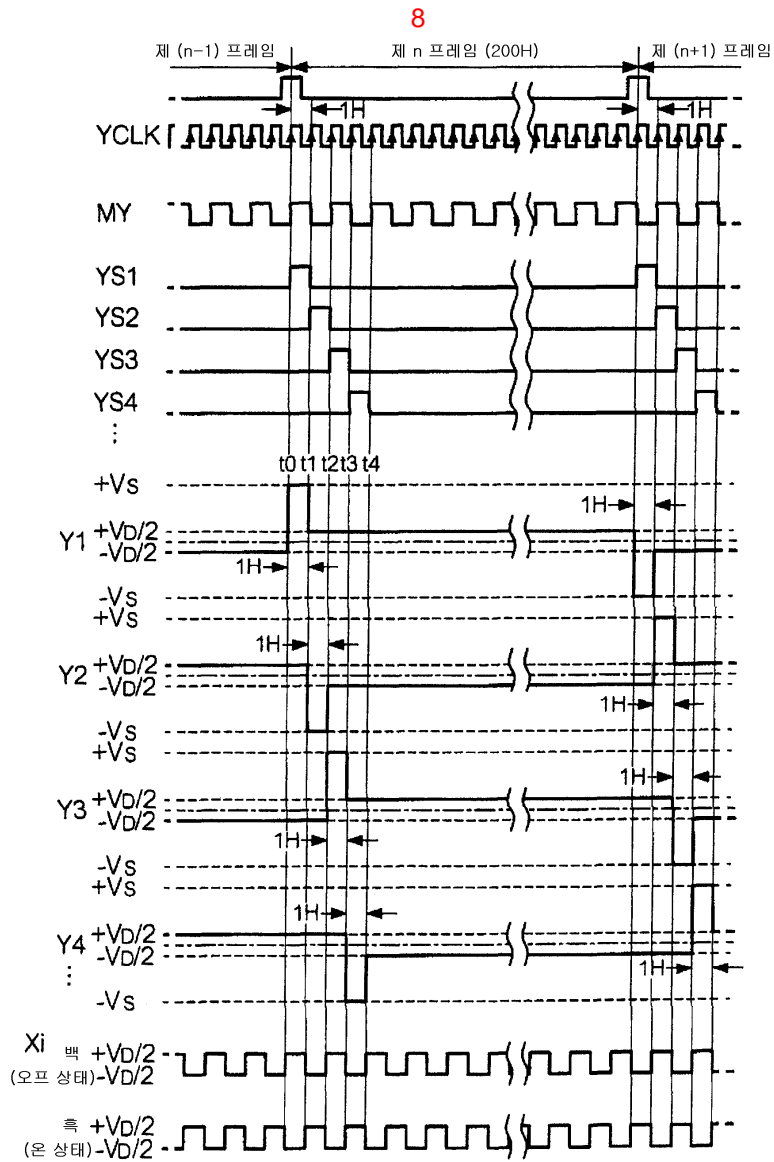
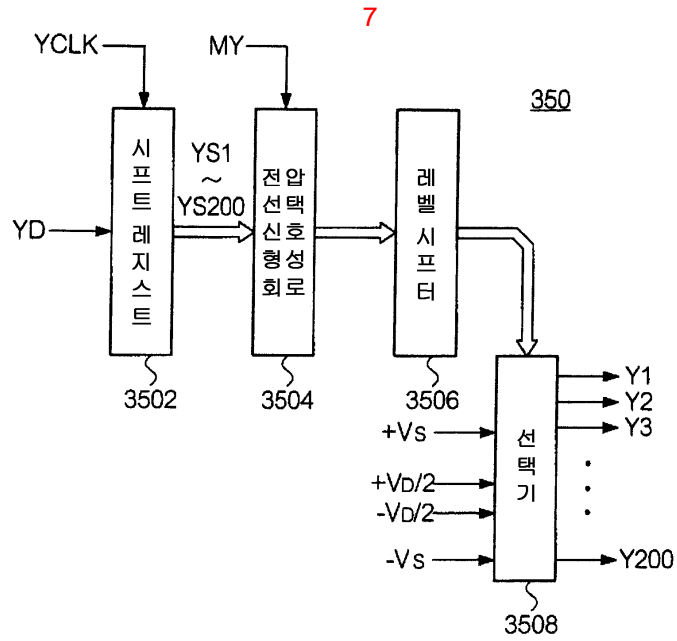




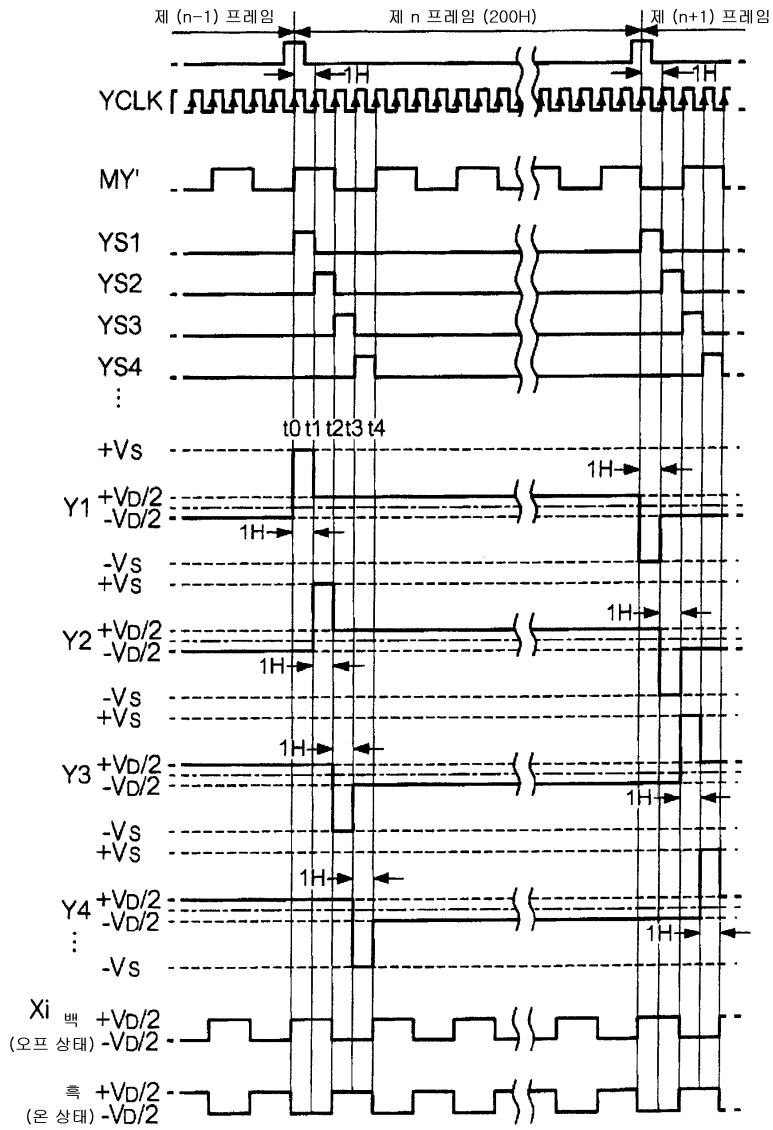
4  
(관측자측)

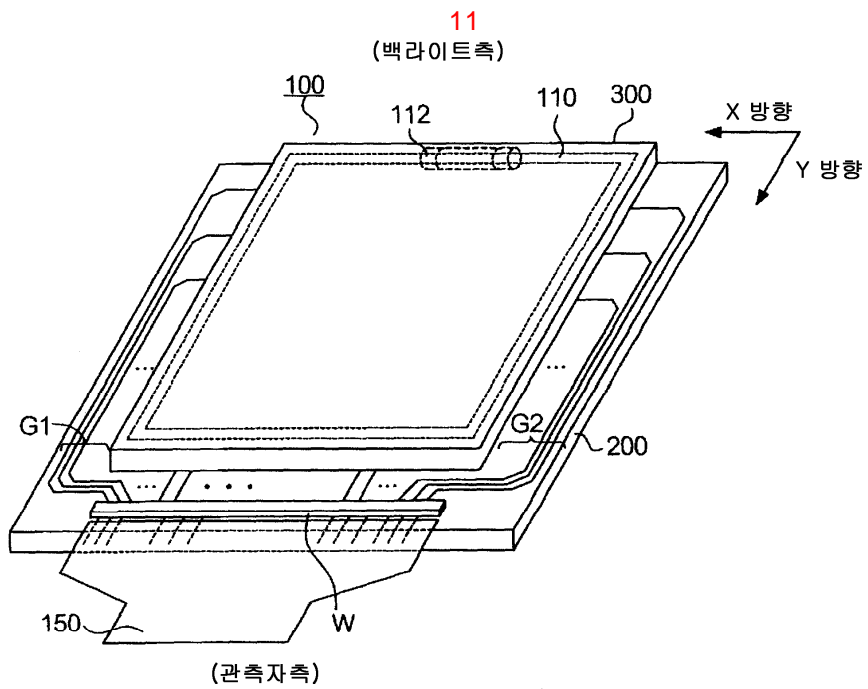
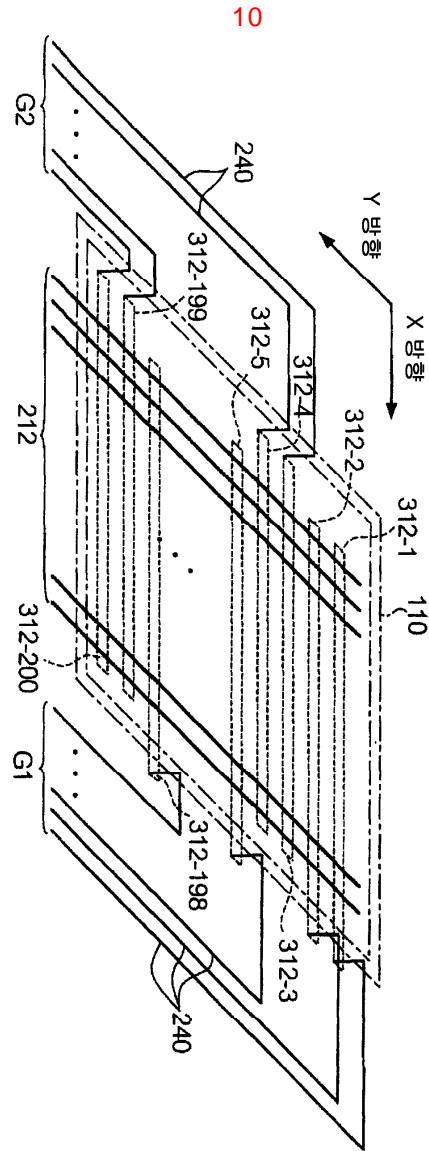


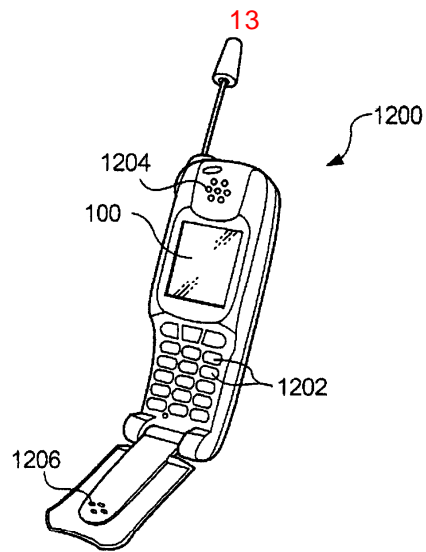
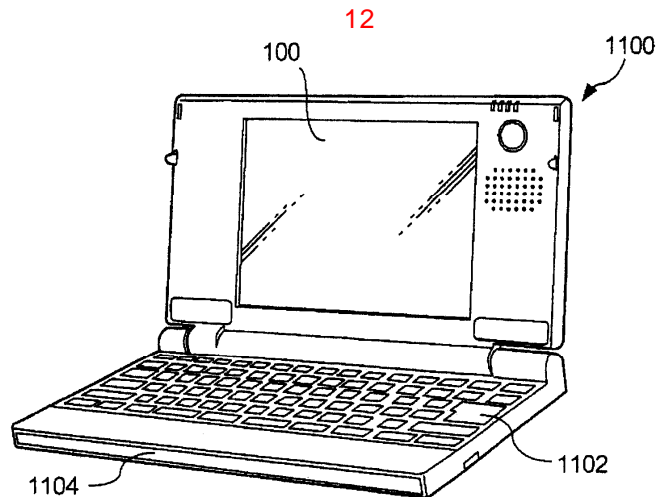


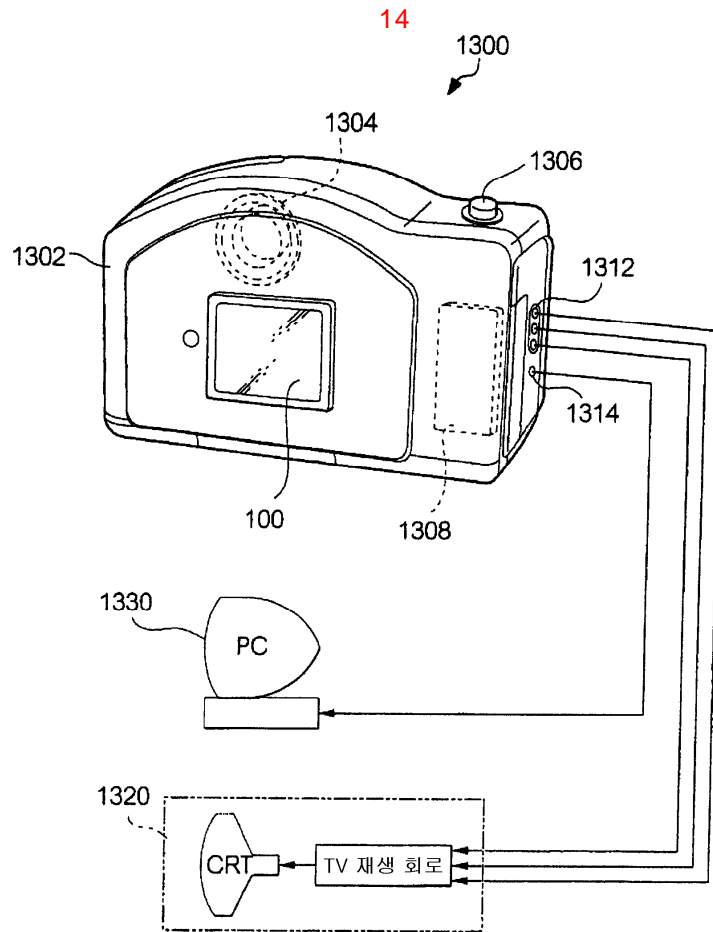


9









专利名称(译)	电光面板，其驱动方法，		
公开(公告)号	<a href="#">KR100457605B1</a>	公开(公告)日	2004-11-17
申请号	KR1020010063758	申请日	2001-10-16
[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	TSUYUKI TADASHI 츠퉄유키다다시 ARUGA YASUHITO 아루가야스히토		
发明人	츠퉄유키다다시 아루가야스히토		
IPC分类号	G09F9/00 G02F1/133 G09G3/20 G02F1/1345 G09F9/30 G02F1/136 G09G3/36 G02F1/1365		
CPC分类号	G09G2310/06 G09G3/3614 G02F2001/13456 G09G3/3674 G09G2310/0278 G02F1/1345 G09G3/367		
代理人(译)	KIM, CHANG SE		
优先权	2000317089 2000-10-17 JP		
其他公开文献	KR1020020030718A		
外部链接	<a href="#">Espacenet</a>		

摘要(译)

提供一种能够在保持布线可靠性的同时进行高密度布线的液晶面板。奇数扫描线312-1,312-3, ..., 312-199连接到第一布线组G1, 而奇数扫描线312-2,312-4, ..., 并且连接到第二布线组G2。每一个水平扫描周期反转极性的扫描信号分别提供给扫描线312-1至312-200。因此, 在构成布线组G1和G2的布线240中, 相邻布线之间的线间电压在大多数周期中变为0V。因此, 即使布线间隔缩短, 也可以抑制由于电解腐蚀引起的布线劣化。 1

