

(19) (KR)
(12) (B1)

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(21)	10-2001-0011559	(65)	2001-0087355
(22)	2001 03 06	(43)	2001 09 15

(30) 2000-61197 2000 03 06 (JP)

(73) 가 가
3681

가 가
가 4 6

(72) 가 460

3550

가
2 29-17

3540-1

257-1

(74)

:

(54)

() , , 3 , , , , , ,
6 (RI, R2, G1, G2, B1, B2) , , , , , ,
3 (GA, GB, GC) , , () , , .

1					1			
2	1			(TTP)				
3a,	3b				1			
4					1			가
5a,	5b							
6								
7								
8		(		)				
9								
10	FCA							
11a,	11b							
12a,	12b				1			
13a,	13b				1			
14a,	14b				1			
15a,	15b				1			
16a,	16b				1			
17a,	17b				1			
18a,	18b				1			
19a,	19b,	19c,	19d			1		
20a,	20b,	20c,	20d			1		
21a,	21b,	21c,	21d,	21e,	21f		1	
22a,	22b,	22c,	22d,	22e,	22f		1	
23					1			
24a,	24b,	24c,	24d			1		
25a,	25b,	25c,	25d			1		
26a,	26b,	26c				1		
27a,	27b,	27c				1		
28a,	28b,	28c				1		
29a,	29b,	29c				1		
30a,	30b,	30c				1		
31a, b, c						1		
<				>				
GDR :								
GTM :								
TTA :								
ASCL :								
C1, C2, C3 :								
GLTP :								
PB :								
LCT1, LCT2 :								
C4, C5, C6, C7, C8, C9 :								
GDR :								

DDR :
 CTL :
 TTP :
 GLTP :
 DLTP :

가 가 가 .
 (,) (TN) 가 .
 (, TN) , (, IPS)가
 TN 2) 90 ° , (1 () 2
 TN , 가
 가 (,).
 (가 , (1991 , 「 」).
 (가 가 가 IPS)
 IPS 가 가 가
 가 45 ° , 가 1/2
 90 ° , 가 가
 IPS (5-505247).
 3 , 3 , (R), (G), (B) 1
 , TN
 , TN ((, x , y
 2 (,) , y , x
 (,) .
) (TFT) .

가 , 가 ,
가 ,
, ,
IC (, IC IC) , ,
, IC (TCP)
, IC TCP가 , (,
) , ()
, , ,
, TCP , IC IC
() IC (COG) FCA
IC , 10 FCA
(SUB1) (SUB2)
(SUB1) IC (,) GDR가 FCA
, IC () DDR가 가 FCA
GDR (DDR) GTM DTM , FPC1 FPC2
FPC1, FPC2 , FPC2 FPC1 BENT1
(SUB1) , JT2 BTL
BENT1 , FPC1 FPC1
, FPC2 FPC1
FPC2 BAT가 ,
, CHG, CHD , ALMG, ALMD , POL2 , AR
(SUB1)
가 , , ,
11a, 11b , 11a ,
11b , GTM , TPC , GDR (,
11a , LCT , ASCL , GTM GDR
(SUB1) () , GTM ASCL
TM , LCT , TPC , G
가 , DTM , TPC , DDR (,
11b , LCT , ASCL , TTB GDR
가 , DTM AS
CL DTM , LCT , TPC
가 ,
8-122806 가 .

가 , (11a, 11b GTM, DTM)가 ,
, (11a, 11b TPC) , 가 ,
, 가 ,
가 ,

가

가

()

3 6

3 가 4 ()

(1)

3

IC IC IC IC

6 IC 6

6 IC 6

가

(2) 6

가

(3)

3

IC IC IC IC

3 IC 4

3 IC 6

6 IC 3

가

(4) 3 4 6

(5) 3 4 6

[illegible]

2, 가 가 1, 가 2, 2, 가 2, 가 가 2, TFT, 가 가 3, Cadd, Cadd가, 가, Cstg, 가 2, 3, 가, 3, + - + - + -, C, D가, Cadd, ABCDEF, 가, Cadd, 4, Cstg, 2, 4, 가, 가, TN, , IPS () , (SUB1) 가, (SUB2), (SUB1), (SUB2), 3, (SUB1) IC (; GDR)가, 11, IC (; DDR)가 F, (SUB1) (CTL) (TTP), (TTP), (TTP), (TTP), (SUB1) (TTP) (CTL) (GLTP), (DLTP), (Vcom), (GLTP) 3, 4, (Vcom), 10, 11, (DLTP) 6, 10, 11, (GLTP), (DLTP) (Vcom), 가, 가, 가, 가, 3a, 3b, 3b, 1, , GDR, , GTM, 3a, , C1, C2, C3, , C3, 4, , 3, , GLTP (GA, GB, GC), (C1, C2, C3), (C1, C2, C3), PB, , LCT1, LCT2, 2, 3a, (SUB1), (LC, (C1, C2, C3), ASCL, (C1, C2, C3), 3, 4, (C1, C2, C3), (GLTP) (GA, GB, GC), (PB), GTM, (C1, C2, C3), , GTM, TTA, FCA, GTM, TTA

가 , 3b , (SUB1) , (LCT1)
(C4, C5, C6, C7, C8, C9) ASCL (C4, C5, C6, C
7, C8, C9) ASCL (C4, C5, C6, C7, C8, C9)
6 (C4, C5, C6, C7, C8, C9) (DLTP) (BI, B2, GI, G2, R1, R2)
(PB) LCT2 DTM (C4, C5, C6, C7
, C8, C9) DTM TTB FCA
, 2 (Vcom) , 가
(LCT1, LCT2) ,
4 1 (DLTP) (BI, B2, G1, G2, RI, R
2) (GLTP) (GA, GB, GC) 가
4 가 ,
가 ,
가 ,
가 ,
5a, 5b , 5a
, 5b , 3a, 3b TTA가 , (CTL
) 가 , ASCL (C1, C2, C3) TTB가 , (C
TL) ASCL (C4, C5, C6, C7, C8, C9)
ASCL (SUB1) ASCL
(C1, C2, C3) (C4, C5, C6, C7, C8, C9)
() 1 가 ,
가 , 가
가 , 3b (C4, C5, C6, C7, C8, C9)
, 3 4 (C1, C2, C3)
11a , 3a, 3b 5a, 5b (C1, C2, C3)
(C4, C5, C6, C7, C8, C9) (; GTM)
(; DTM)
가 ,
가 ,
가 ,
가 FCA TCP
가 ,
6 , 2 (PNL) , (PNL) (,
, 2) (IC) (DDR), (DDR) (CR
) GDR (IC) GDR (DDR)
L), PWU (CRL) (CRL) ,
(CRL)

[illegible]

가
가
가
15b ASCL 12b
16a C4, C5, C6, C7, C8, C9 6
6 가 3 2
3
3
3
+ - + - + , B R RGBRGB 6
6 RGBRGB 6 + - + - +
5a, 15b, 16a, 16b 12a, 12b, 13a, 13b, 14a, 14b, 1
12a, 12b 16a, 16b LCT1, LCT2 17a TCP
LCT1 ASCL ASCL
가 가 ASCL 가
가 가 1 ITO 가
가 가 가
가 가
1 가
ASCL 가
ASCL (GLTP) (PB)
2 가
가 가
가 가
LCT2 (C1, C2, C3) TCP (TCPD)
17b , LCT2가 , TCP

17a, 17b, 18a, 18b, TCP, FCA, LCT1, LCT2, 3a, 3b, 3, TCP, (GLTP), 19a, 1, GDR, TCP, (PB), 19b, 19c, 19d, 20a, 20b, 20c, 20d, 20a, 19a, 20c, 19b, 19c, 19d, GLTP, 20b, 20d, FCA, GLTP, FCA, TCP, 1, 20a, IC, (GDR), GLTP, 20c, GDR, 1, GLTP, 21e, GDR, GLTP, 21f, 21e, GDR, 22a, DLTP, IC, (DDR), 22b, DLTP, 22c, 22b, 22c, DLTP, 22d, 22e, 22f, 21e, 20d, 21f, 가 n, (n-1)/2, 2×(n+1)

[illegible]

[illegible]

(57)

1.

The diagram illustrates a complex network of relationships. The nodes are labeled 'C', 'IC', '6', and '3'. The connections are as follows:

- 'C' is connected to 'IC' (top left), 'IC' (middle left), '6' (bottom left), and 'IC' (bottom right).
- 'IC' (top left) is connected to 'IC' (middle left) and 'IC' (bottom right).
- 'IC' (middle left) is connected to 'IC' (bottom right) and '6' (bottom left).
- '6' (bottom left) is connected to 'IC' (bottom right) and '6' (bottom right).
- '6' (bottom right) is connected to '3' (top right) and 'IC' (bottom right).
- '3' (top right) is connected to 'IC' (bottom right) and 'IC' (middle right).
- 'IC' (middle right) is connected to 'IC' (bottom right) and 'IC' (top right).
- 'IC' (top right) is connected to 'IC' (middle right) and 'IC' (bottom right).
- 'IC' (bottom right) is connected to 'IC' (top right), 'IC' (middle right), and '6' (bottom right).

2.

1 , 6

3.

[illegible]

4	IC	6	IC	, 3
4.				
3	, 3 4	6		
5.				
3	, 3 4	6		
6.				
3	, 3 4	6		
7.				
3	, 3 4	6		
8.				
		1 , 2 , 3 3		
		2 가		
1, 2 3 1				
1	1	, 2 , 3		
2	2			
3	3			
9.				
		1 , 2 , 3 3		
		2 가		
1, 2 3 1				
1	1	, 2 , 3 , 4 , 5		
2	2			
3	3			
4	1			
5	2			

6

3

10.

1, 2, 3, 3

2, 2 가

1, 2, 3, 1

2, 3, 4

11.

8

10

IC, IC가

12.

8

11

IC

13.

8

11

14.

12

가, 2 가

15.

12

14

가

16.

12

14 가

15

가, IC n, (n-1)/2, 2×(n+1)

17.

8

16

가

18.

8

17

1, 2, 3

19.

8

17

1, 2, 3

20.

8

19

21.

12

17

가

22.

8

19

23.

12 17 , , 가 ,

24.

1, 2, 3, 3, 2 가

1	1	1
2	2	2
3	3	3
1, 2, 3		

25.

1 , 2 , 3 3

2 가

1, 2, 3, 1, 2, 3, 4, 5, 6

1	1	,
2	2	,
3	3	,
4	1	,
5	2	,
6	3	,
1, 2, 3, 4, 5, 6		,

26.

1, 2, 3, 3, 2 가

1, 2, 3, 1, 2, 3, 4

27.

24

26

가 TCP

IC

28.

1 , 2 , 3 , 3

2 ,

2 가

1, 2 3 1

1 , 2 , 3

1 1
2 2
3 3
1, 2, 3

29.

1 , 2 , 3 , 3

2 ,

2 가

1, 2 3 1

1 , 6 1 , 2 , 3 , 4 , 5
1 1
2 2
3 3
4 1
5 2
6 3
1, 2, 3, 4, 5, 6

30.

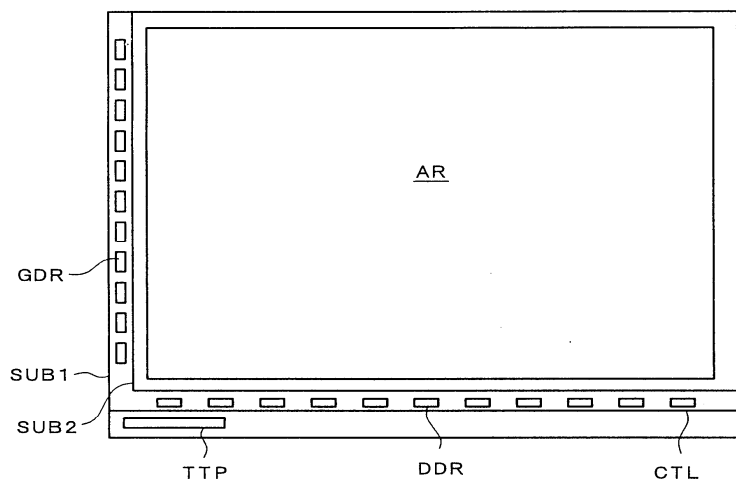
1 , 2 , 3 , 3

2 ,

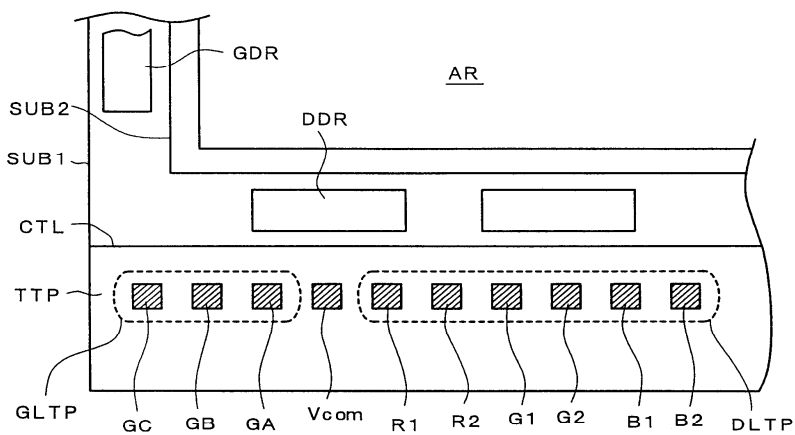
2 가

1, 2 3 1 , ,
2 , 3 , 4 , ,
31. 28 30 , 가 TCP IC

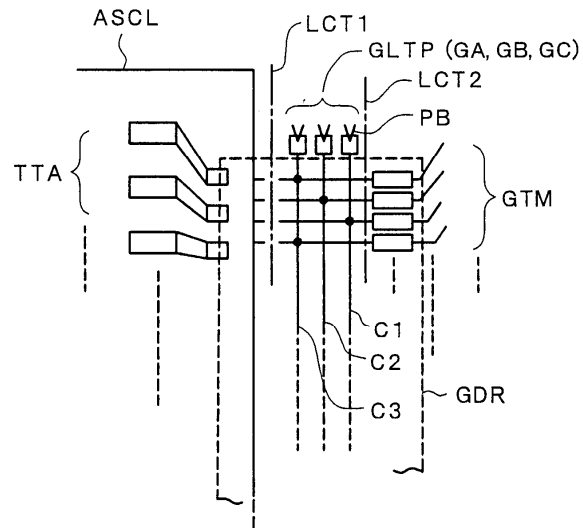
1



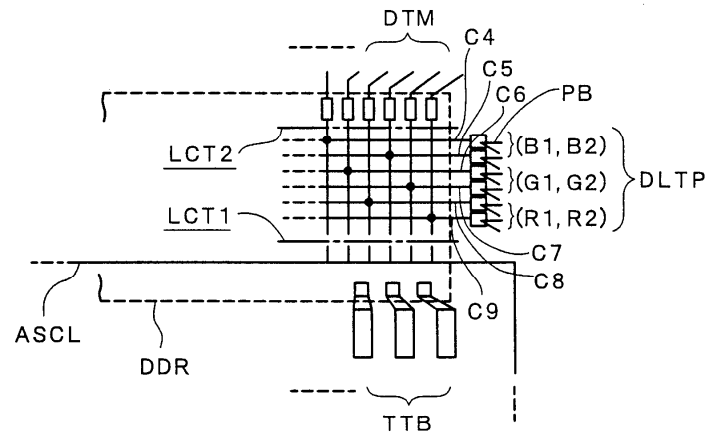
2



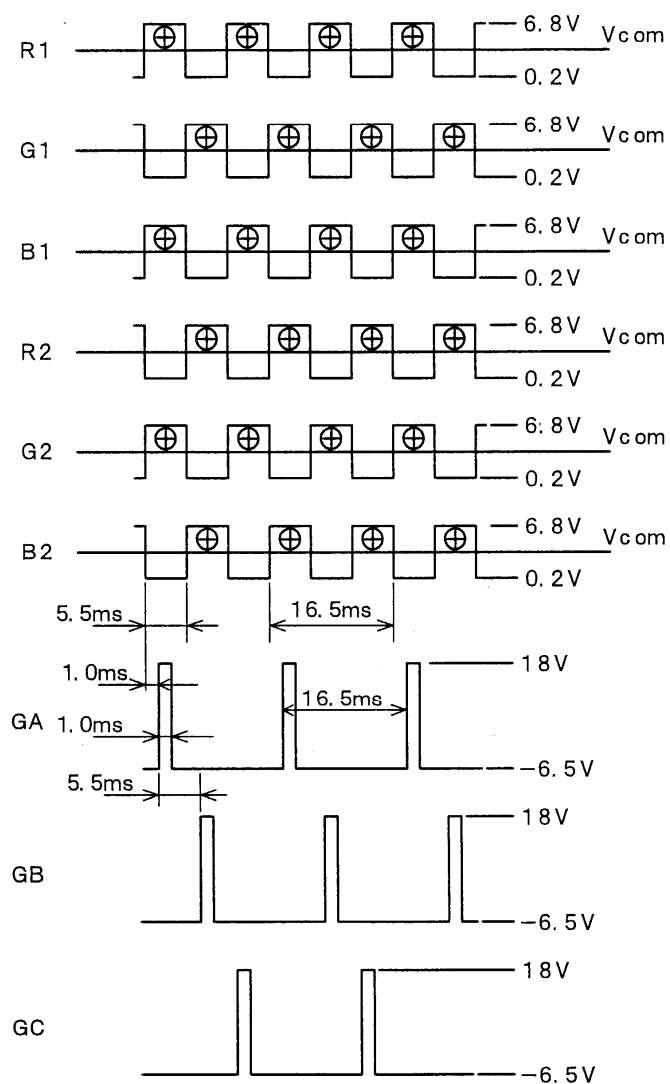
3a



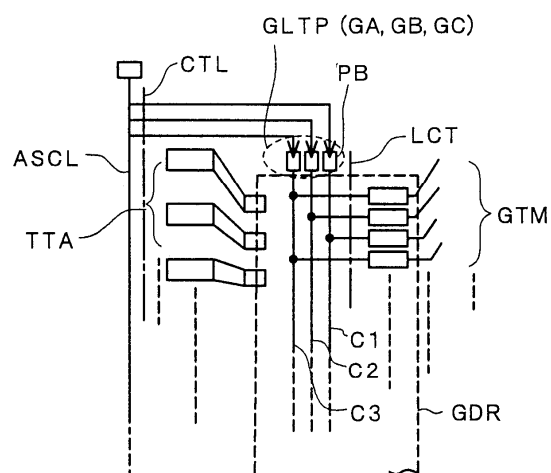
3b



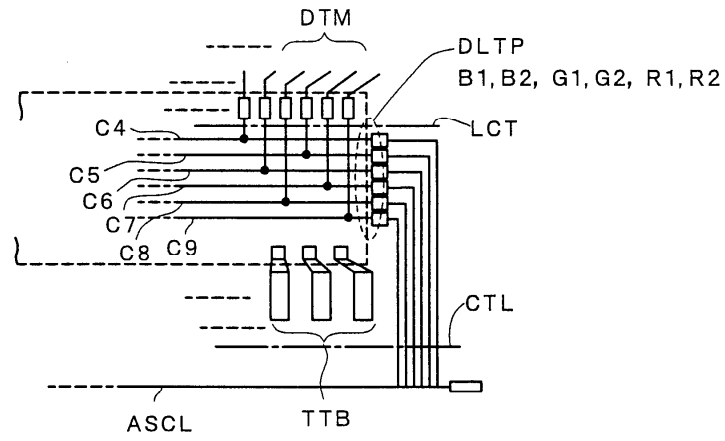
4



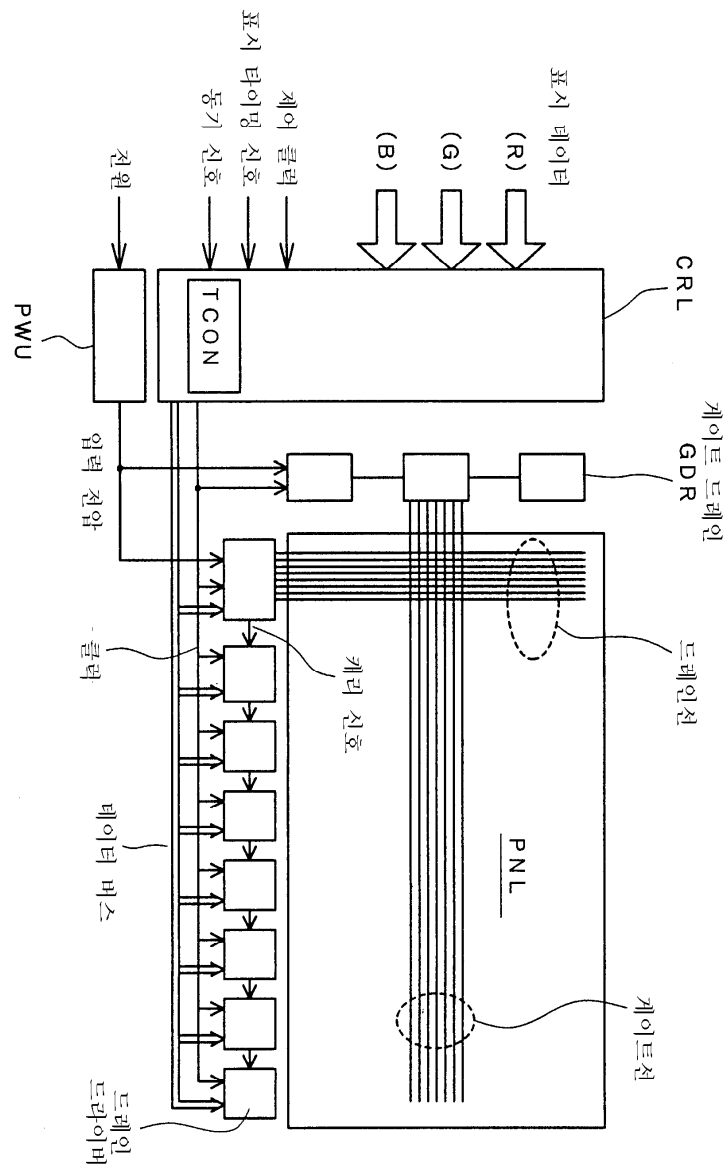
5a



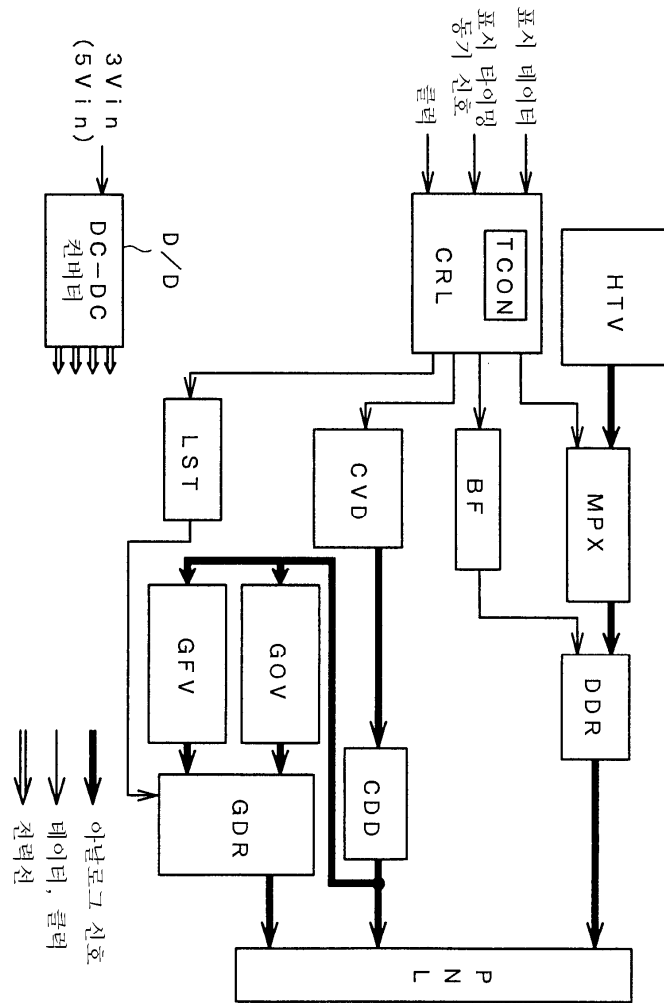
5b



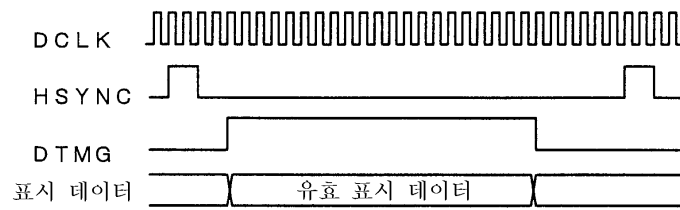
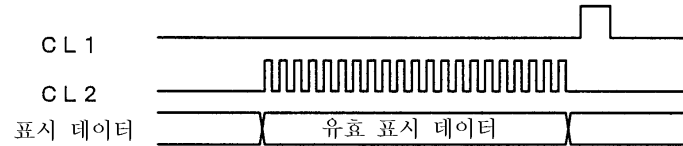
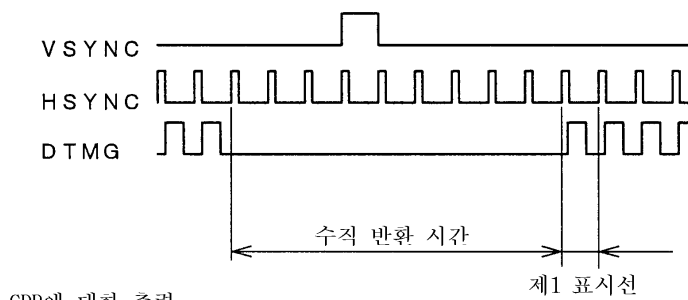
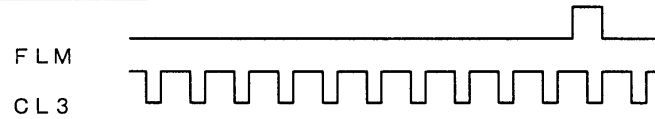
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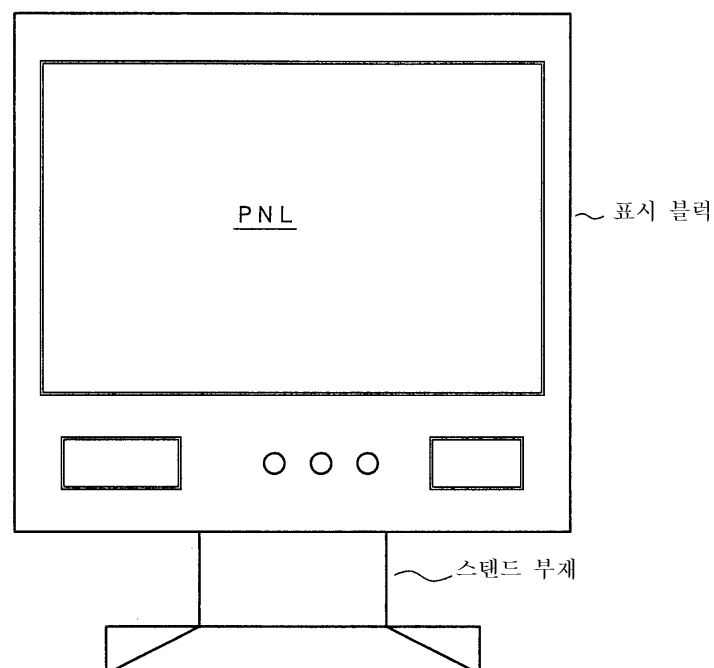
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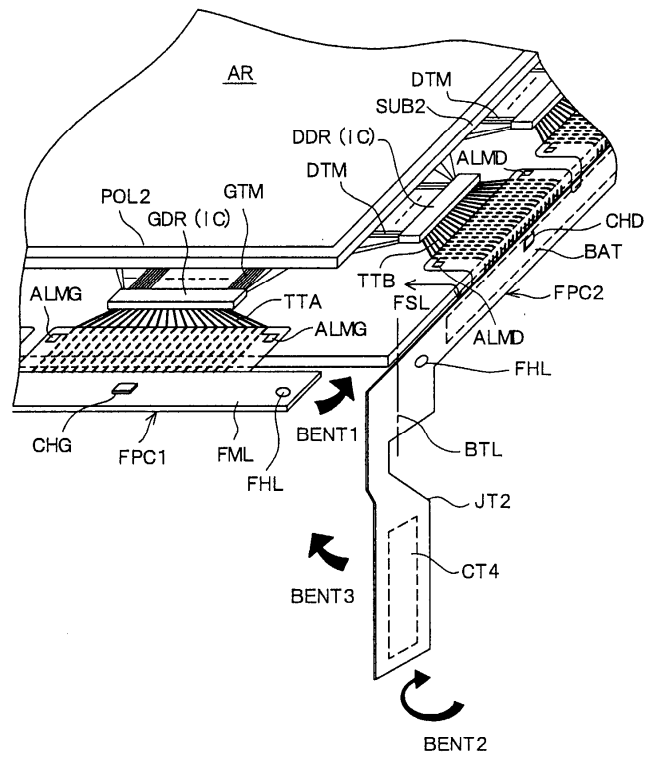
8

CPU로부터의 신호DDR에 대한 출력CPU로부터의 신호GDR에 대한 출력

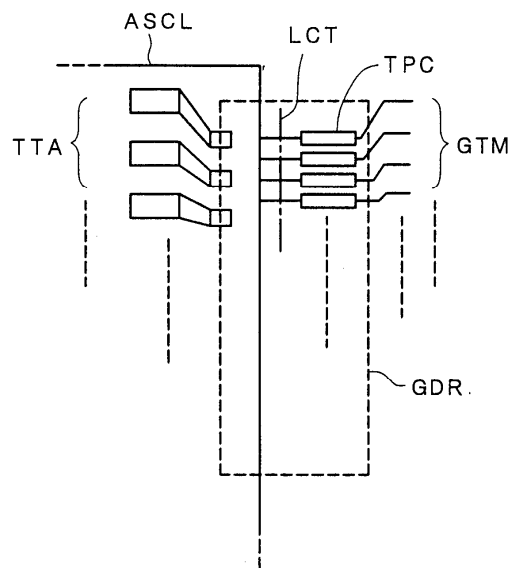
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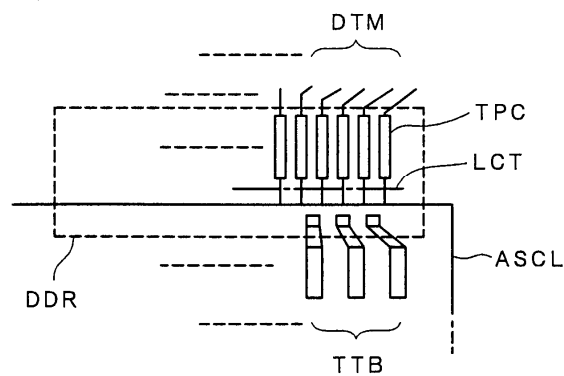
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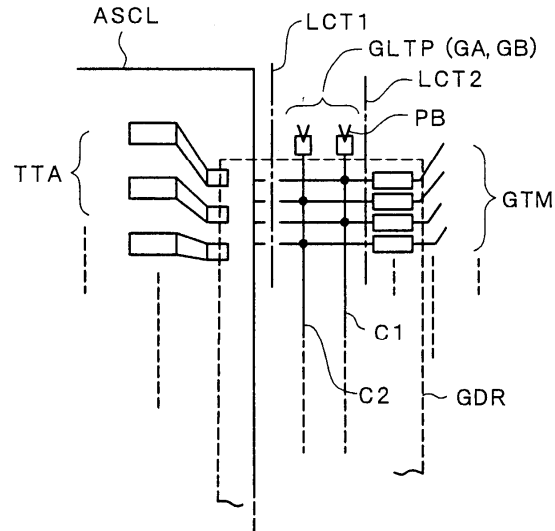
11a



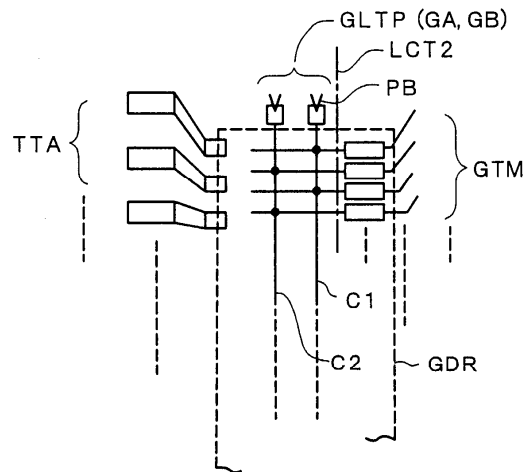
11b



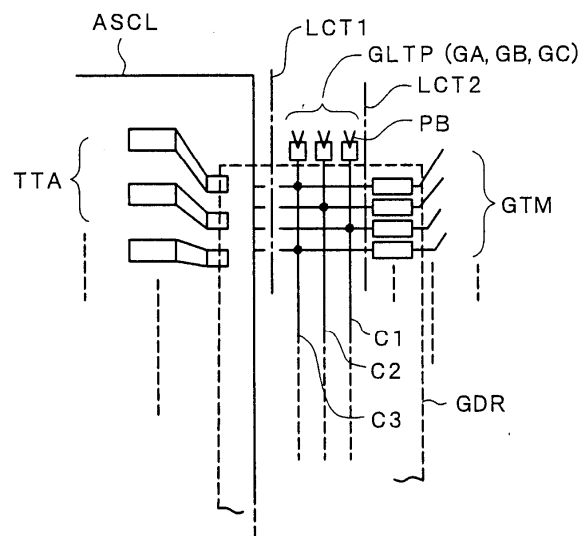
12a



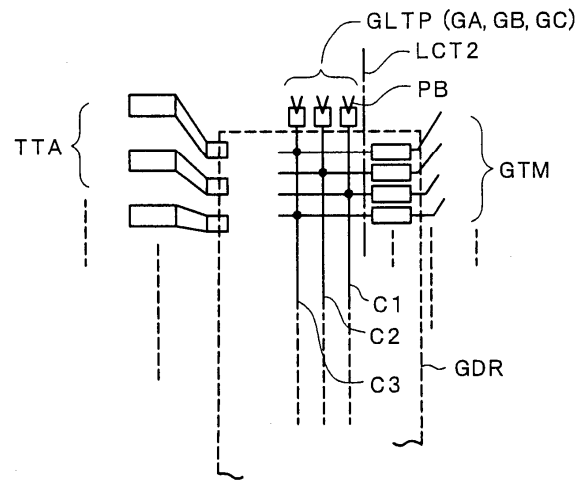
12b



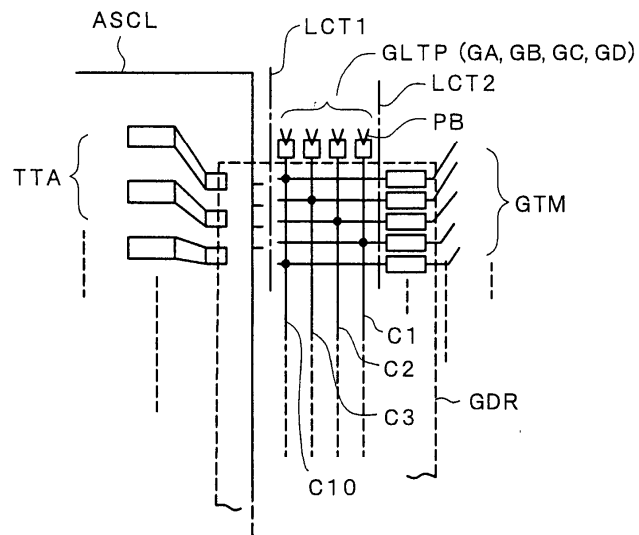
13a



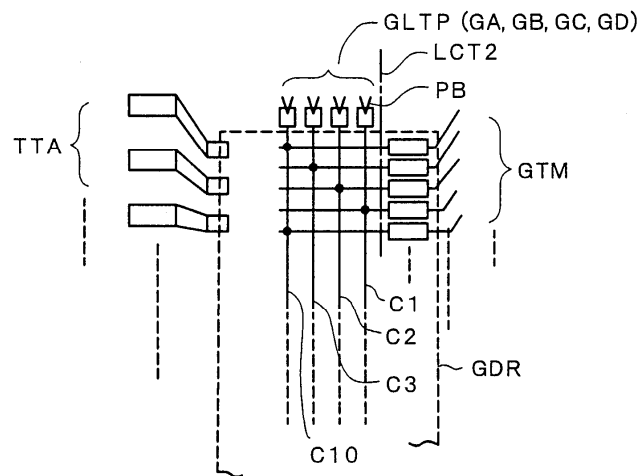
13b



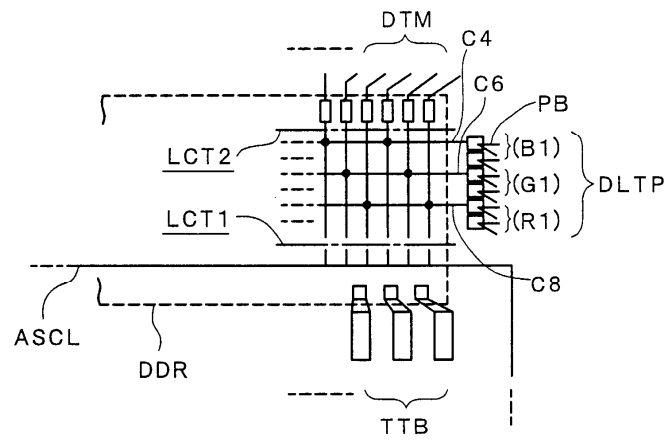
14a



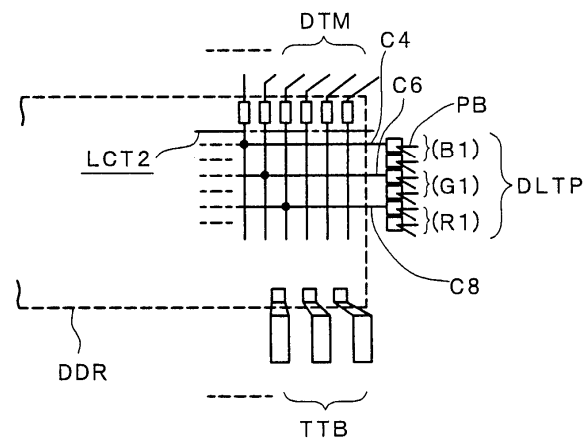
14b



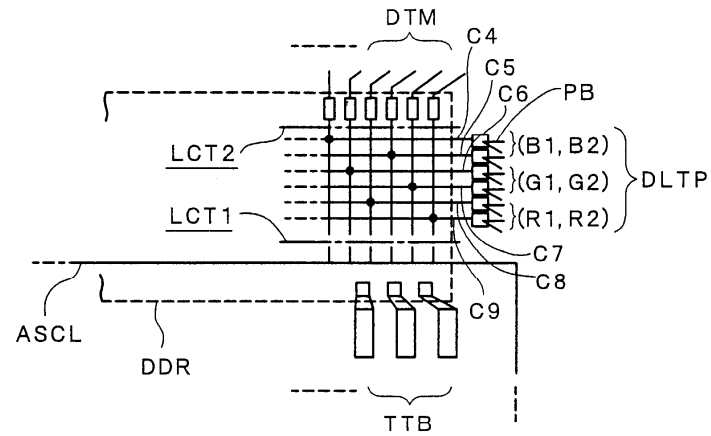
15a

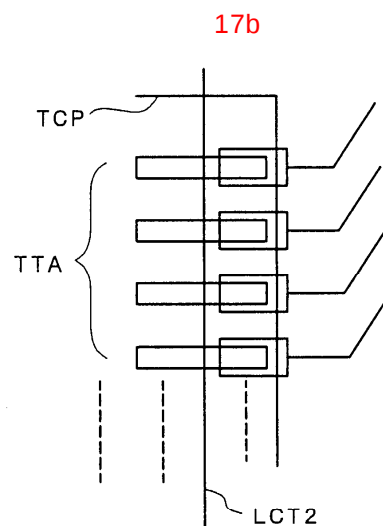
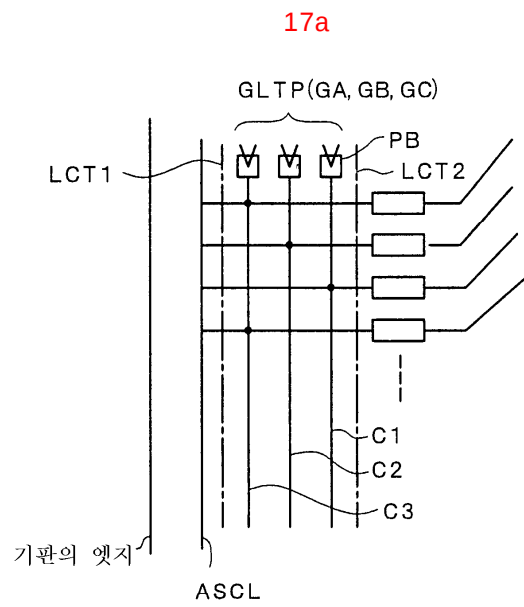
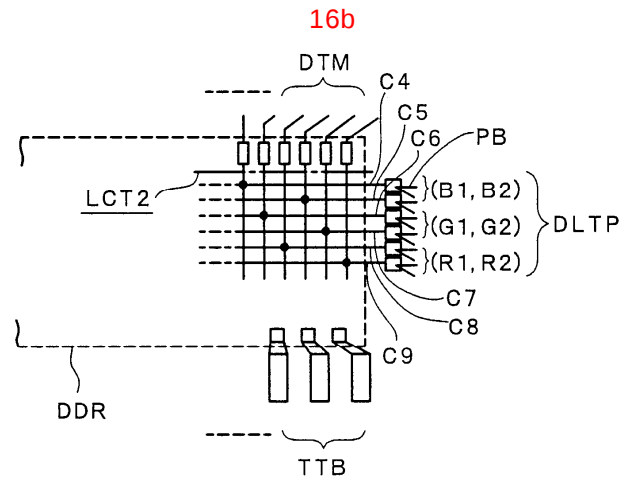


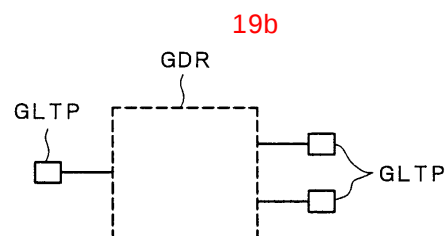
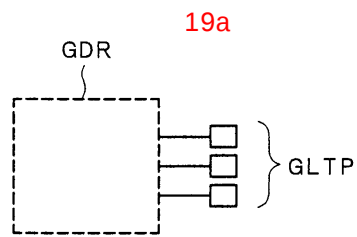
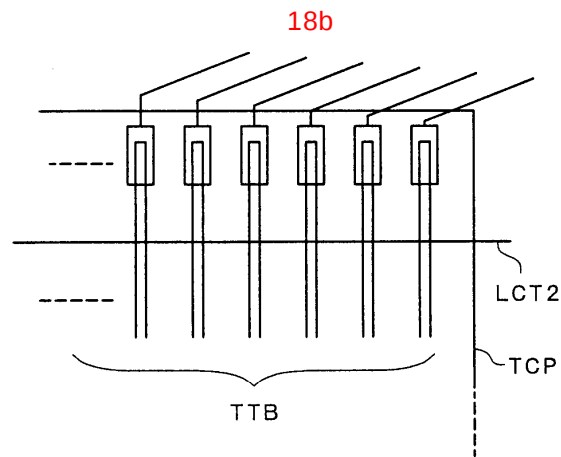
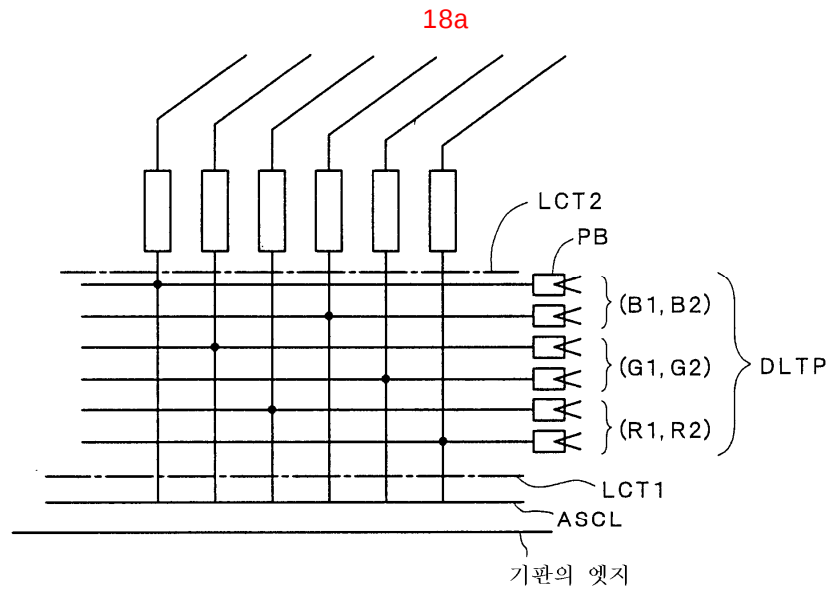
15b



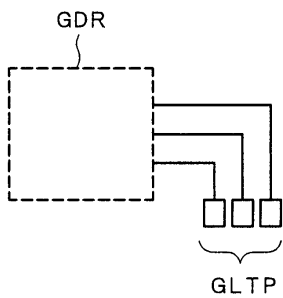
16a



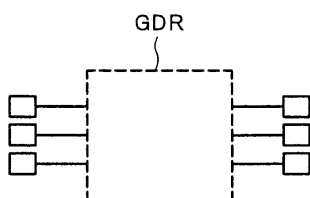




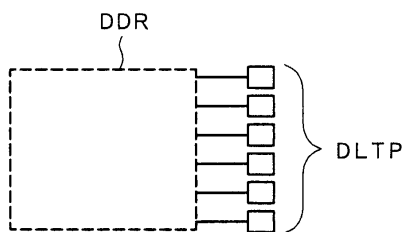
19c



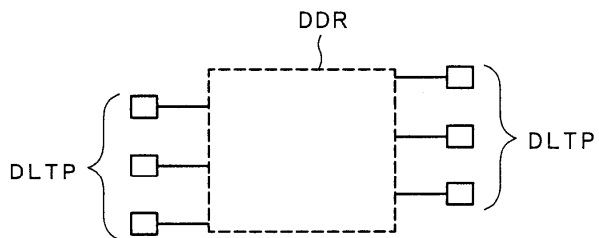
19d



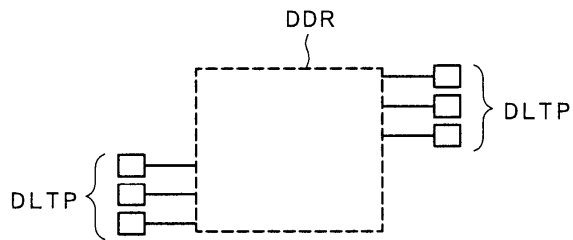
20a



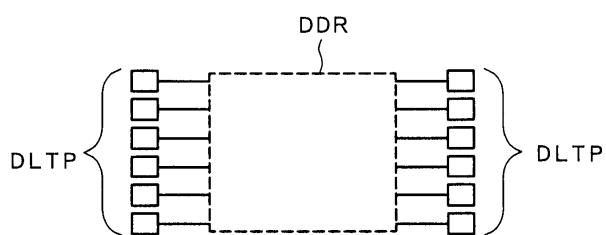
20b



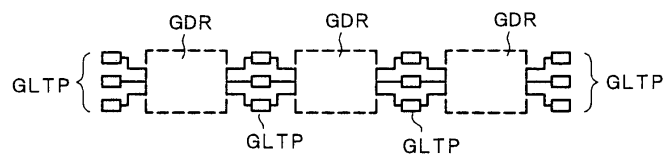
20c



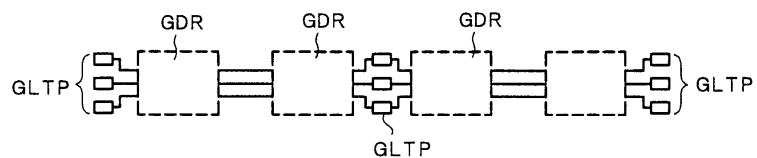
20d



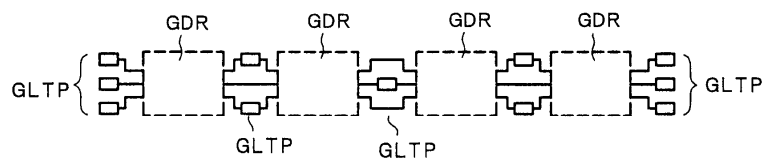
21a



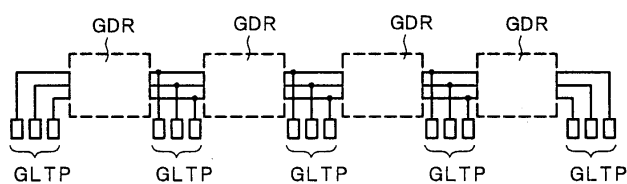
21b



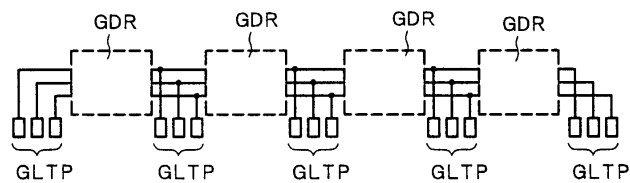
21c



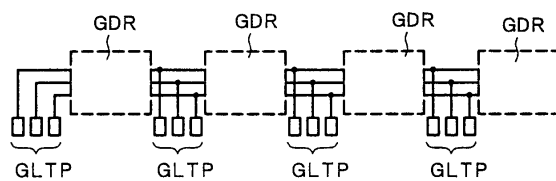
21d



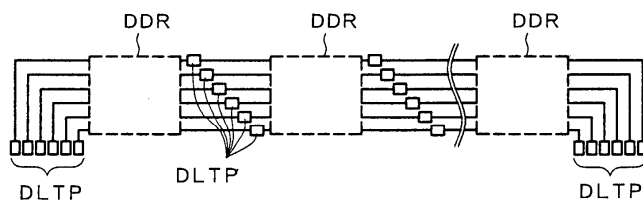
21e



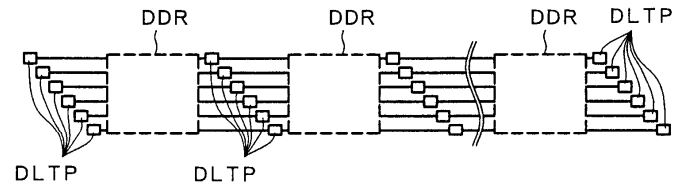
21f



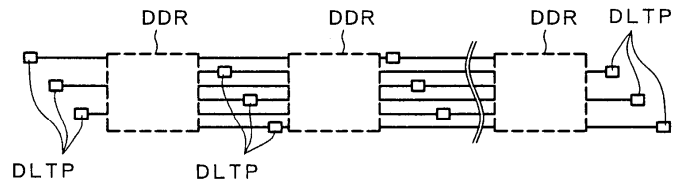
22a



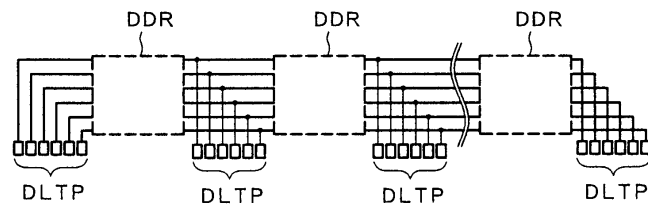
22b



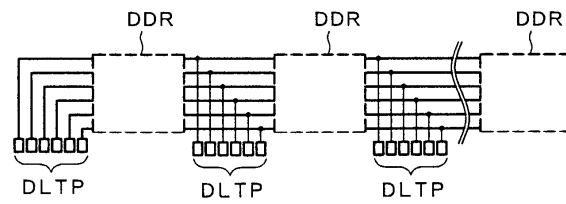
22c



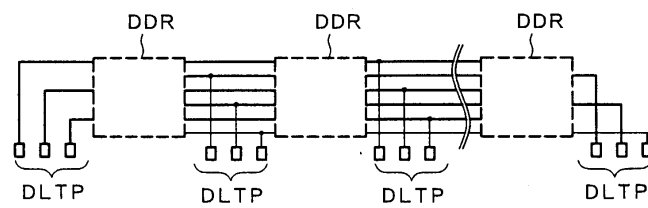
22d



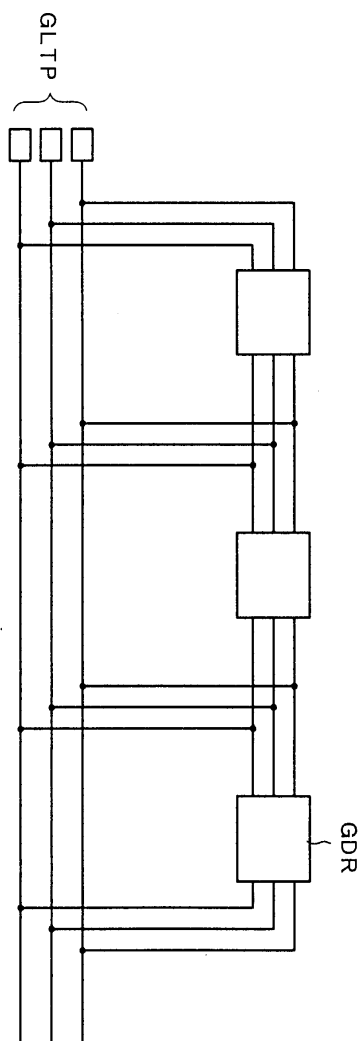
22e



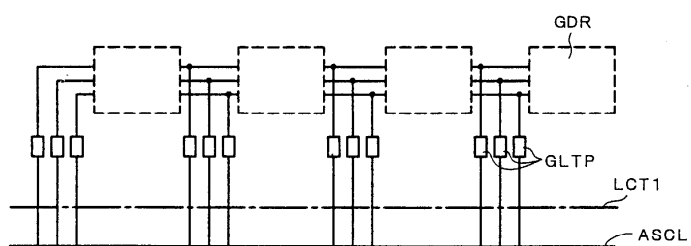
22f



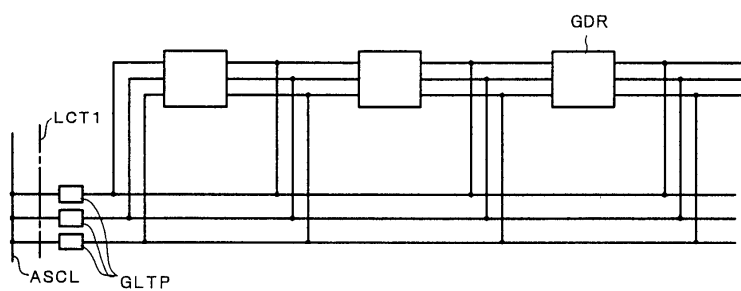
23



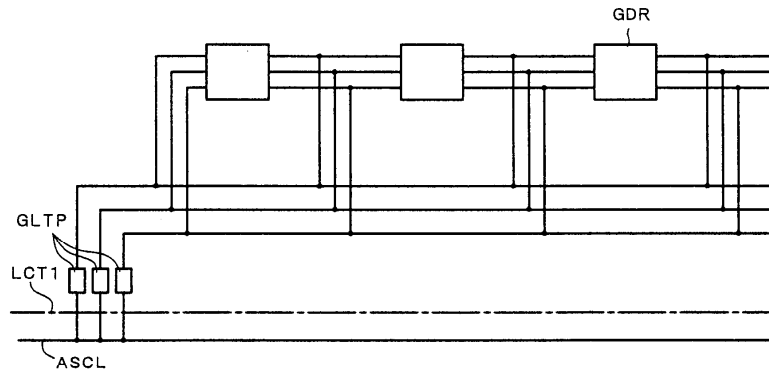
24a



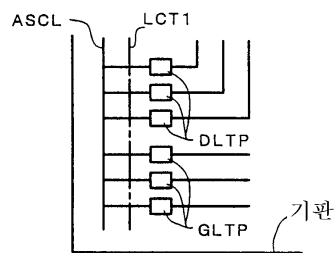
24b



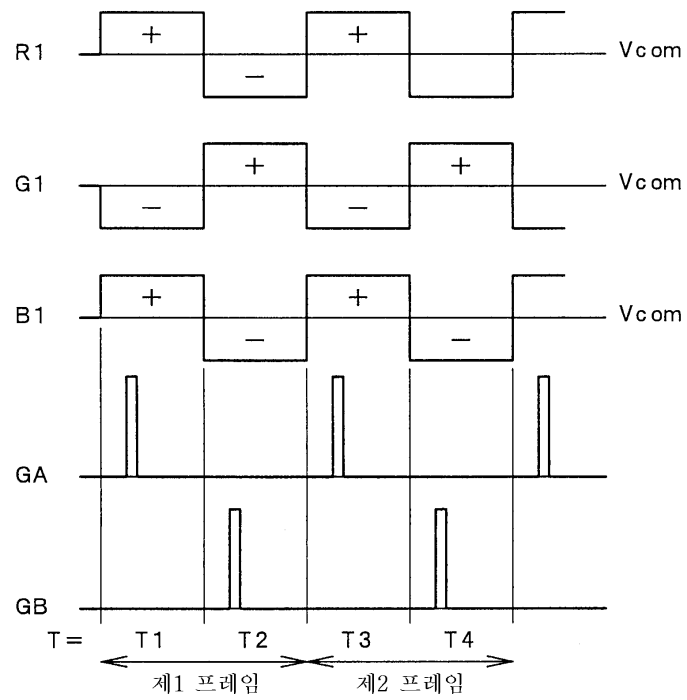
24c



24d



25a



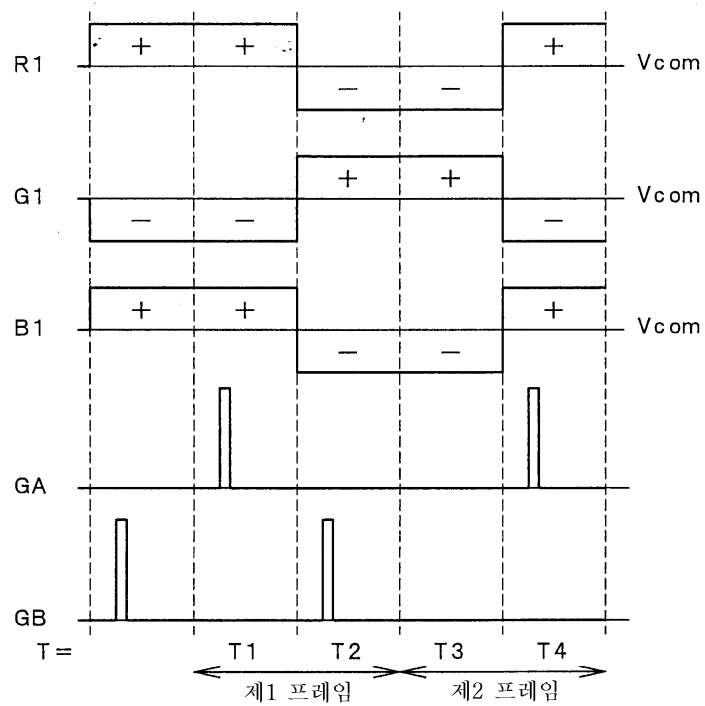
25b

	R	G	B
GA	+	-	+
GB	-	+	-

25c

	R	G	B
GA	+	-	+
GB	-	+	-

26a



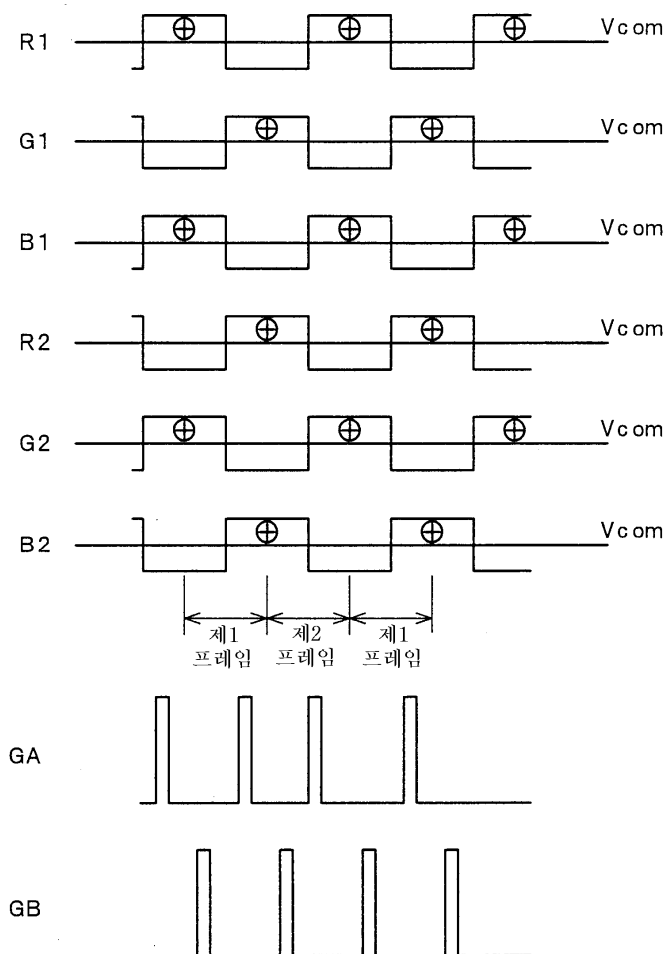
26b

	R	G	B
GA	+	-	+
GB	-	+	-

26c

	R	G	B
GA	-	+	-
GB	+	-	+

27a



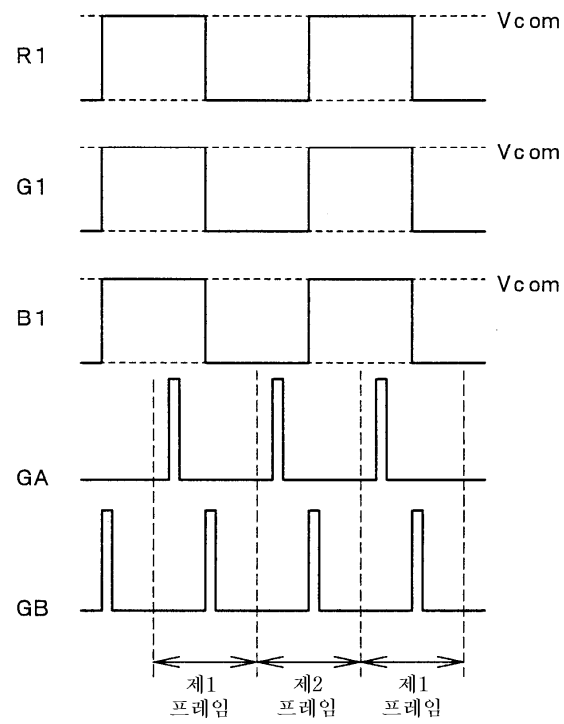
27b

	R1	G1	B1	R2	G2	B2
GA	-	+	-	+	-	+
GB	+	-	+	-	+	-

27c

	R1	G1	B1	R2	G2	B2
GA	+	-	+	-	+	-
GB	-	+	-	+	-	+

28a



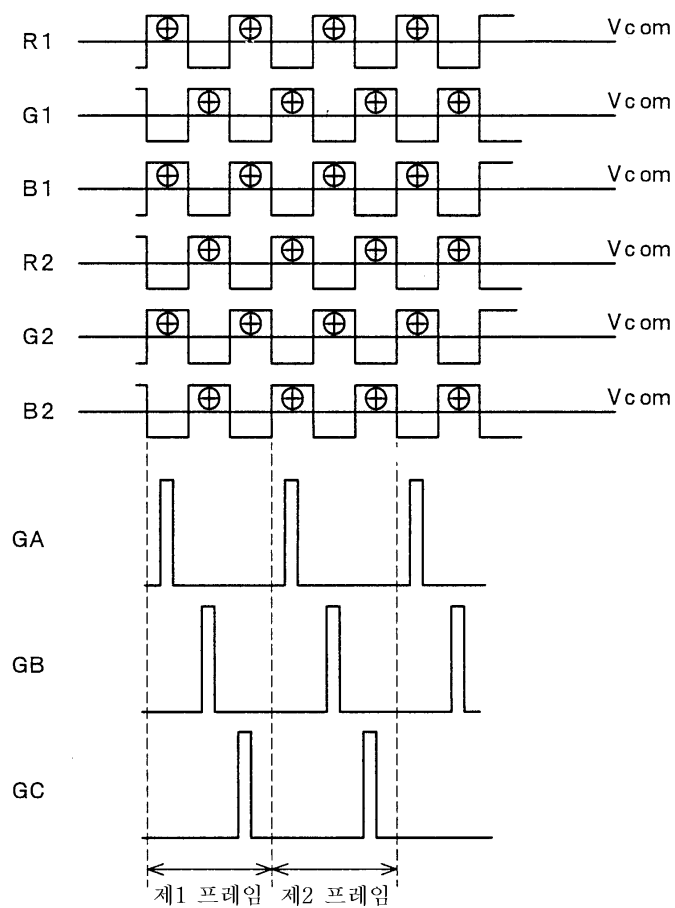
28b

	R	G	B
GA	+	+	+
GB	-	-	-

28c

	R	G	B
GA	-	-	-
GB	+	+	+

29a



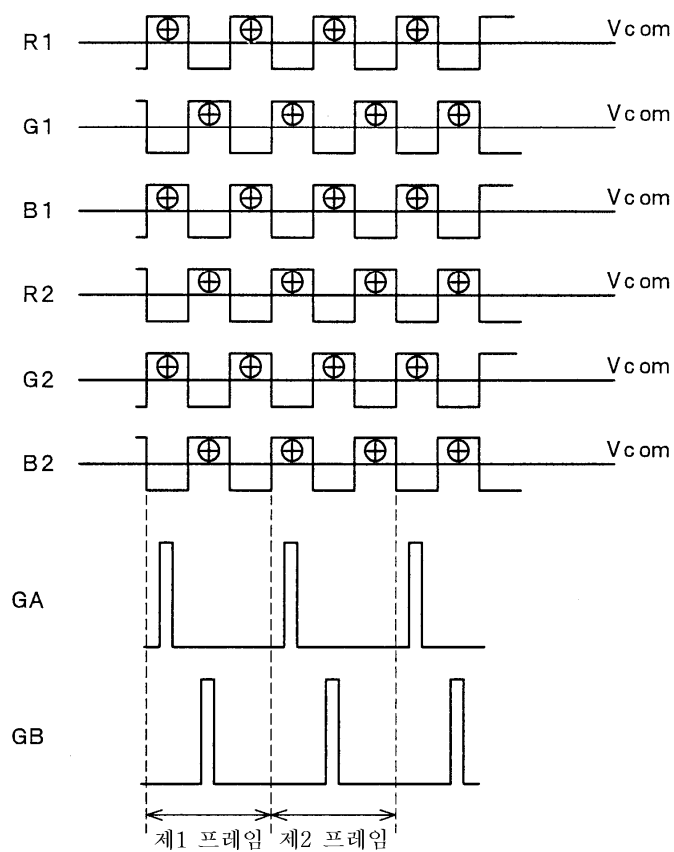
29b

	R1	G1	B1	R2	G2	B2
GA	+	-	+	-	+	-
GB	-	+	-	+	-	+
GC	+	-	+	-	+	-

29c

	R1	G1	B1	R2	G2	B2
GA	-	+	-	+	-	+
GB	+	-	+	-	+	-
GC	-	+	-	+	-	+

30a



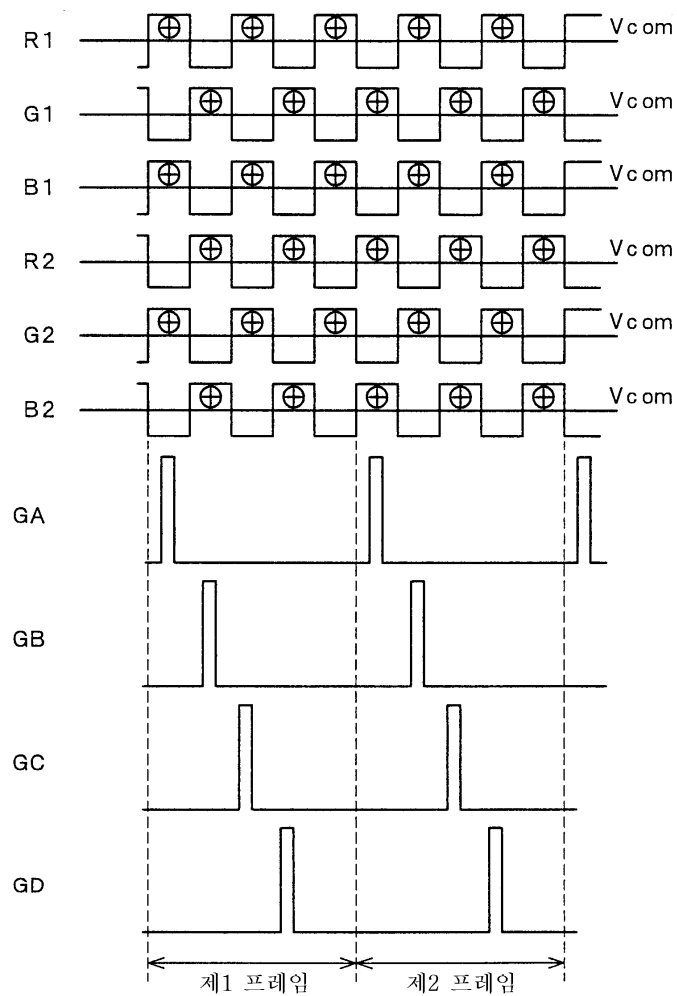
30b

	R1	G1	B1	R2	G2	B2
GA	+	-	+	-	+	-
GB	-	+	-	+	-	+

30c

	R1	G1	B1	R2	G2	B2
GA	-	+	-	+	-	+
GB	+	-	+	-	+	-

31a



31b

	R1	G1	B1	R2	G2	B2
GA	+	-	+	-	+	-
GB	-	+	-	+	-	+
GC	+	-	+	-	+	-
GD	-	+	-	+	-	+

31c

	R1	G1	B1	R2	G2	B2
GA	-	+	-	+	-	+
GB	+	-	+	-	+	-
GC	-	+	-	+	-	+
GD	+	-	+	-	+	-

专利名称(译)	液晶显示装置及其制造方法		
公开(公告)号	KR100392575B1	公开(公告)日	2003-07-23
申请号	KR1020010011559	申请日	2001-03-06
[标]申请(专利权)人(译)	日立HITACHI SEISAKUSHODBA 日立器件工程株式会社		
申请(专利权)人(译)	株式会社日立制作所 地伤装置工程可否让这个夏		
当前申请(专利权)人(译)	株式会社日立制作所 地伤装置工程可否让这个夏		
[标]发明人	OUGIICHI KIMITOSHI 오기이찌기미또시 OOSHIRI RYOICHI 오시리료이찌 MIYATA KAZUSHI 미야따가즈시 TSURUOKA SHINICHI 쯔루오까신이찌 NIWA SUSUMU 니와스스무		
发明人	오기이찌기미또시 오시리료이찌 미야따가즈시 쯔루오까신이찌 니와스스무		
IPC分类号	G02F1/1362 G02F1/13 G02F1/133		
CPC分类号	G02F1/136204 G09G3/2003 G09G3/006 G02F1/13452 G02F1/1345 G02F2001/136254 G09G3/3614 G09G3/3648 Y10S345/904 G09G2300/0426		
代理人(译)	CHANG, SOO KIL		
优先权	2000061197 2000-03-06 JP		
其他公开文献	KR1020010087355A		
外部链接	Espacenet		

摘要(译)

(R1 , R2 , G1 , G2 , B1) 负极性, 负极性, 铁锈的正极性, 铁锈的负极性, 蓝色的正极性和蓝色的负极性相对于红色的三种颜色, , B2) 通过分割, 整合, 分别连接到漏极线公共线, 并撤销在漏极驱动器的安装区域的外侧上的漏极线公共线, 并且该测试符合探测到设置在漏极线公共线的测试端子我知道。作为用于栅极驱动器侧, 在前端的栅极驱动器的输出端子(引线), 下一阶段, 分为后端的三种菌株 (GA , GB , GC), 集成了每一个连接到栅极线公共线和栅极线公共线被取出到栅极驱动器安装区域的外部, 并且探针与设置在栅极线公共线上的检查端子对准以进行检查。 1 指数方面 漏极驱动器, 漏极线公共线, 栅极驱动器, 栅极线公共线, 检查端子, 探针

