

(19) (KR)  
(12) (A)

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(21) 10 - 2001 - 0003313  
(22) 2001 01 19

(30) 2000 - 016302 2000 01 25 (JP)

(72) 5 7 1 가 가

(74)

(54)

(POWC) "L"  
 (MG) (12) (71) "L"  
 (100)  
 (100)  
 (50) (Vcom)  
 (Vcom)가  
 가

1 ;  
2 ;  
3 ;  
4 (50) ;  
5 (50) ;  
6 ;  
7 .  
  
10 : ( )  
11 : ( )  
12 : 16 :  
20 : ( ) 26 :  
24 : 50 :  
60 : ( ) 71 :  
72 : ( ) 74 :  
75 : 80 :  
82 : 100 :  
G1 Gn : S1 Sm :  
C1, C2 : CL :

가 , , ,

7a      7b      .  
2                  ,      가      .  
).      (P)      ,      ,      가 2      (P)      ( 7a  
      (P)      ,      ,      .

2655328

FA , 가



, 2 IPS(In-plane-switching),  
 ng) 5 (50)

, 4 CL 가 RL (CL)  
 (76) (RL) (C1) (74) (74) (TFT) (72) (C2) (72)  
 (74) 가 가 (80) (72)  
 (82) (76) (70)

, (C1, C2) (74) (76)

(74) (82) (72) (80)  
 , (CL) 가 가

, 5 1 (30)  
 (31) (31) (34) (32) (34) (35) (31)  
 (32) (36) (37) (37) (42) (35) (35)  
 35) (30) (44) (31) (30)

, 2 (38) 2 (38)  
 , 가, (39) 가, (39)  
 (40) (41) (42) (40) 2 (41)  
 , (43) (43) (43) (44)

, 1 (30) 2 (38)  
 , (42) (50)  $10^{12}$  cm

, (50) 가 2

, 20 (Hsync)  
 (\Vsync), (50) (Vsync), R, G, B, (Hsync)  
 (Hsync) (Ds) (G1 Gn) (Gs), (S1 Sm)

(Vcom), (11)

10)

1 , , (20)( 2 ) (60) (60) (75) " H " , " H " { 3( c) }.

, (75) { 3(a) }, { 3(b) } (Fs),  
 (Vs) (Gs) . , (Fs) 1  
 | , (data) . (Vs) 1  
 1 , 1 , 1  
 (Gs) (Gl Gn) , 1  
 (G1 Gn) , n .

K) (75), (Vs) (12) (10) (I2) (C)  
12) (75) , (D) (D) (G1, G2...Gn) { 3(e)  
}. (12) D

, (75) (data),  
 (Vs) (Gs) (11) (16)  
 (16) (75) (Vs), (Gs)  
 (data), (S1 Sm) (Ds), (Ds)  
 (S1 Sm).

(100) (S1 Sm) (71) (MG) , (10)  
 0) (100) (70) (S1 Sm) (16) . .

, (G1 Gn) , 3 (50)  
(72)가 (80) 가 (74) . ,  
          (CL)     가 .

, 가 { 3(a) Hr } (POWC) “L” { 3(c) } , (71) “L” (POWC) 가 (70), T (MG) { 3(d) }. (MG) (100) . (11) (CL) . (100) . (12) (PR) (MG) (T) , (71)

, (12) (PR) " H" . (MG)가 , (31)  
 $(G_1 \quad G_n)$  " H" . (MG)가 (t2)

, (100) "H" (MG)가 , (SI Sm)  
 (16) (Vcom) . , (t1) , (SI Sm)  
 (Vcom) { 3(f) }.

, ( 4 ) , (82) 가 (72)가  
 (80) 가 (Vcom)가 (74) , ( CL, C1, C2)  
 (80) .

$$(G_1, G_n), \quad (t2) \quad , \quad (MG) \text{가 } "L" \quad , \quad (72)$$

$$, \quad (100) \quad (S_1 \quad S_m) \quad (V_{com}) \\ (16) \quad . \quad , \quad , \quad , \quad , \quad , \quad (16)$$

, (Hsync), (Vsync)가 , , (t1) (POWC) " L"  
(60)가 가 , , 40msec .

6 , 가 , . A가 . , B가 0.5  
가 10 .



5

가

가

가

6

가

(57)

1.

가

가

가

가

2.

1

3.

1

2

4.

1            2            ,

가

5.

1            2            ,

6.

1            2            ,

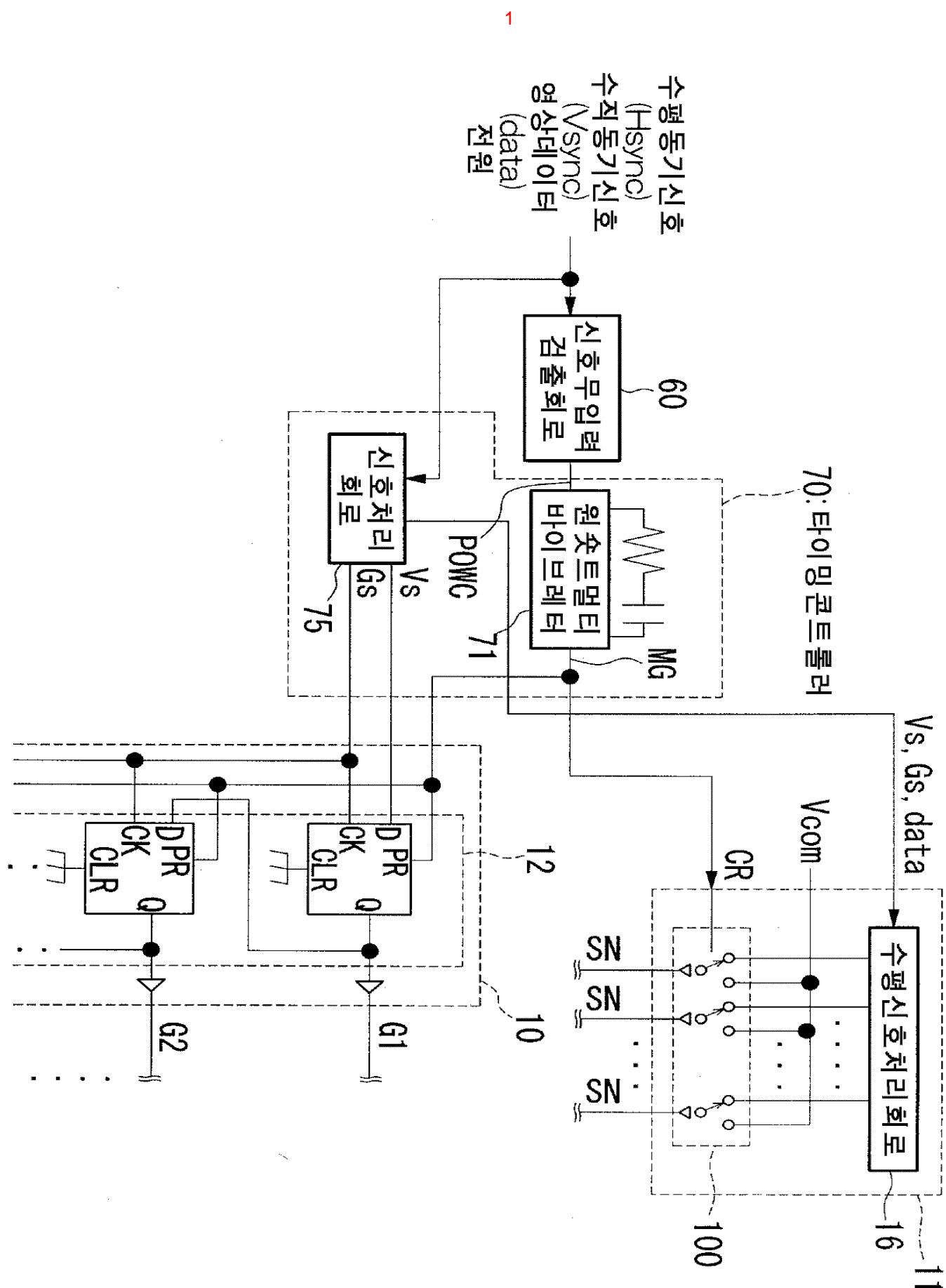
7.

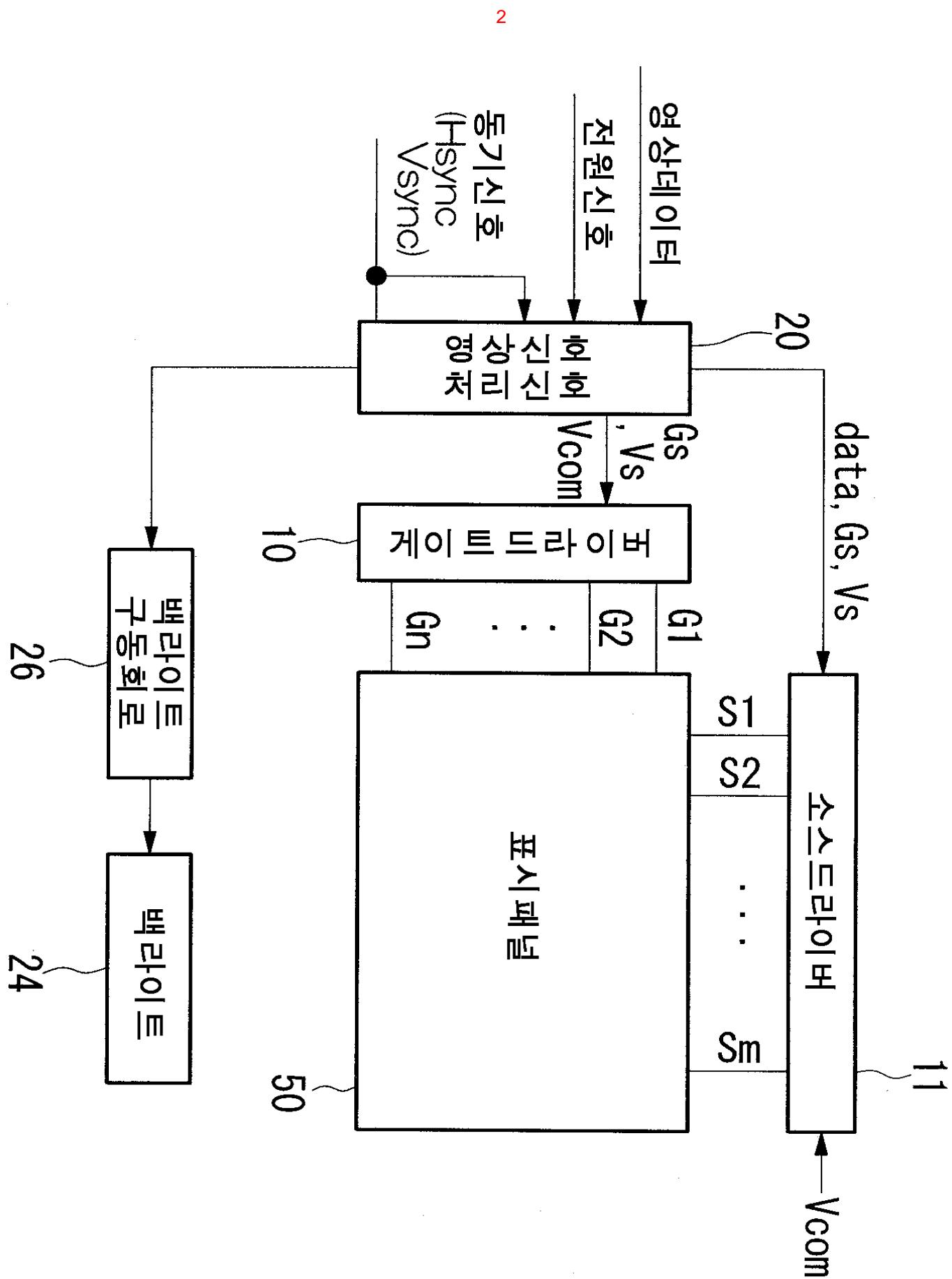
,            ,  
,            ,  
,

가

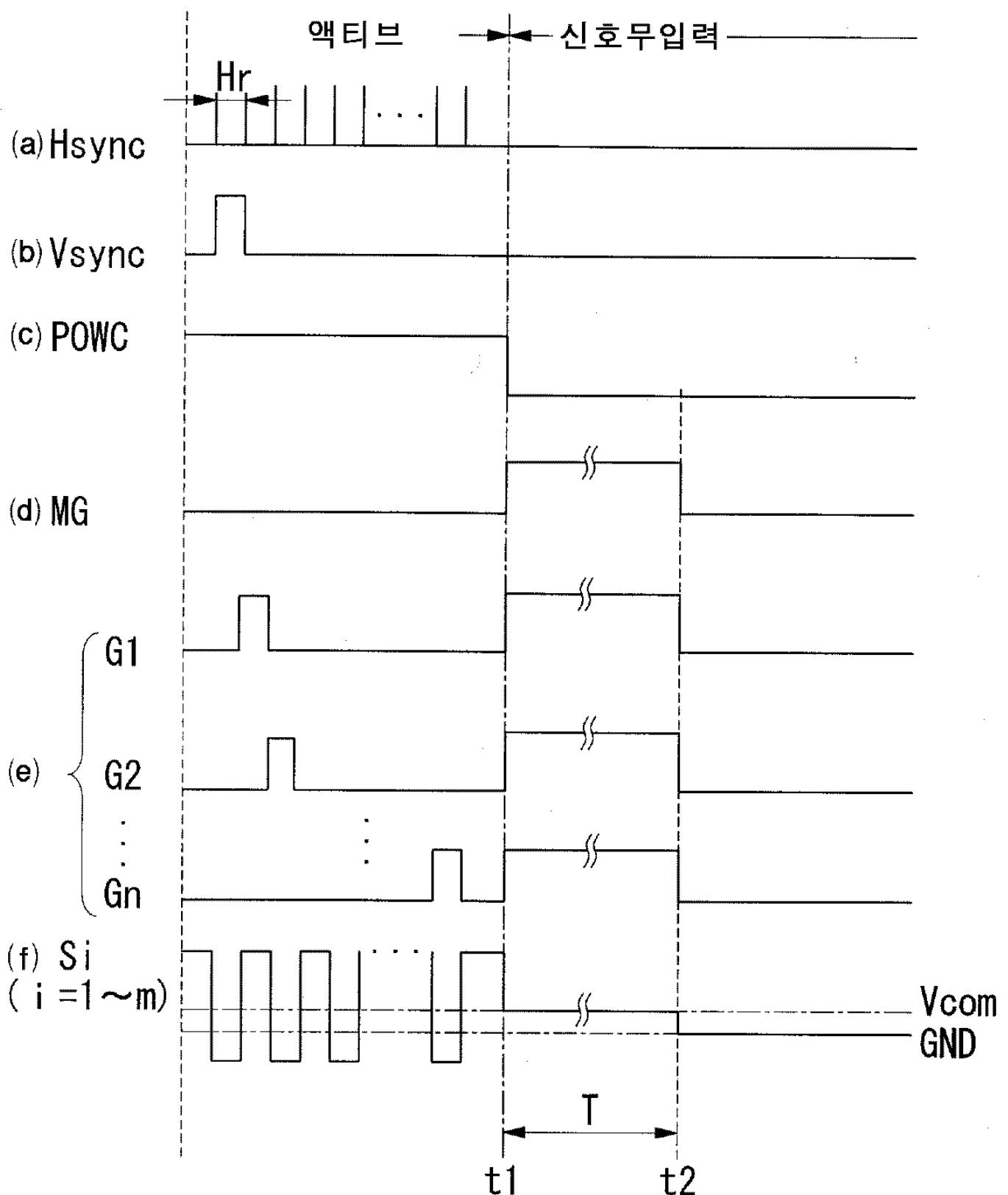
가

가

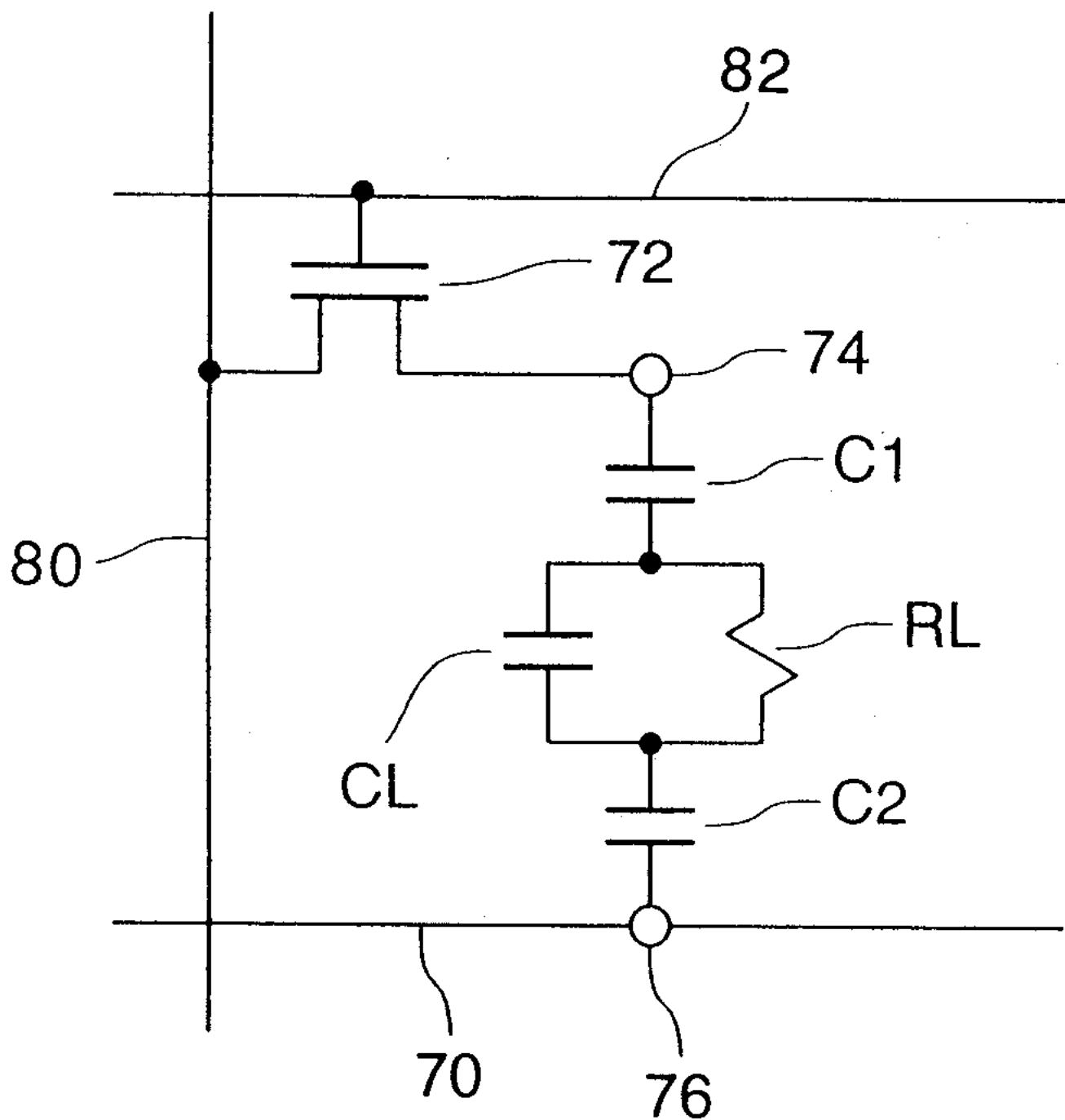


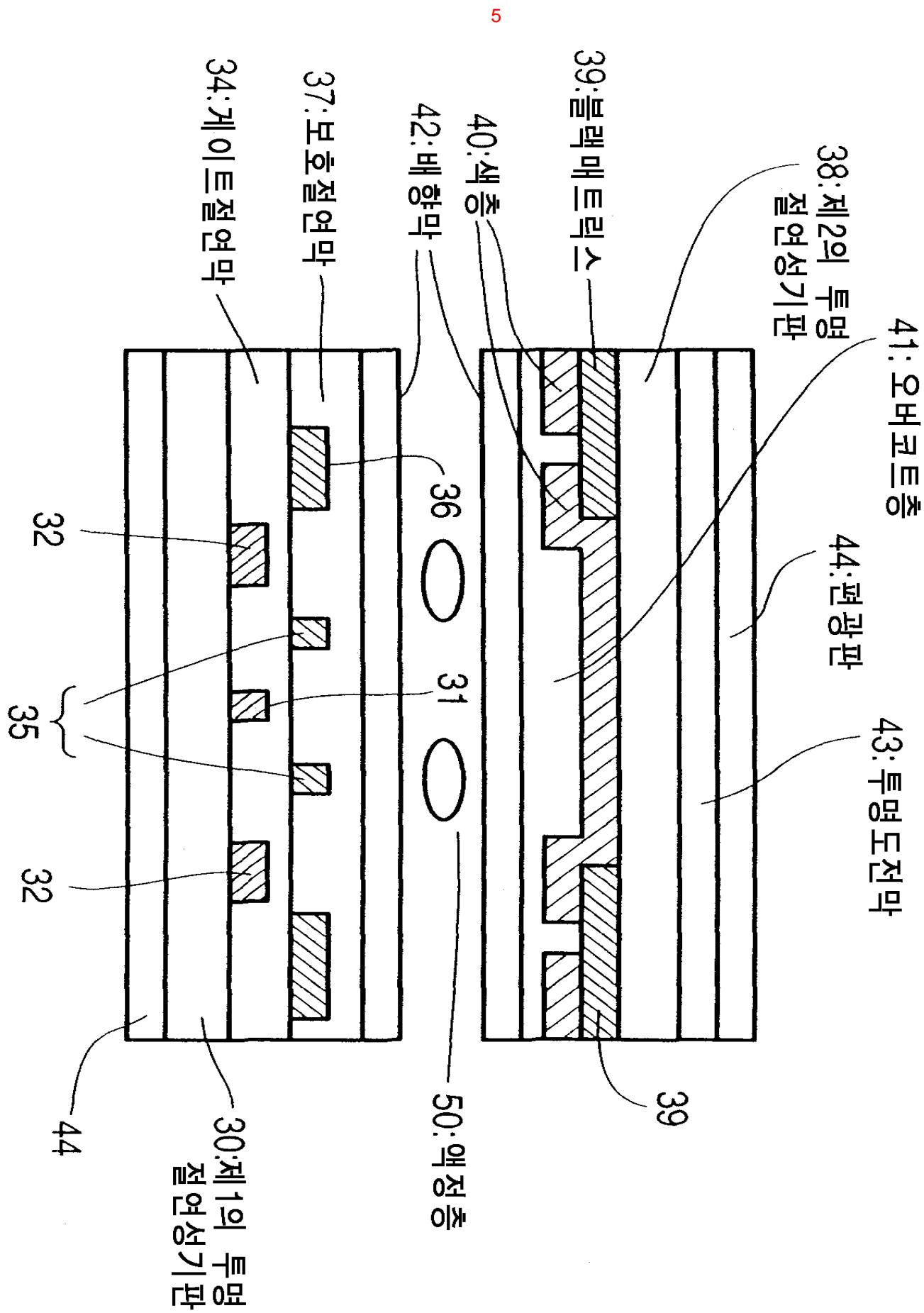


3

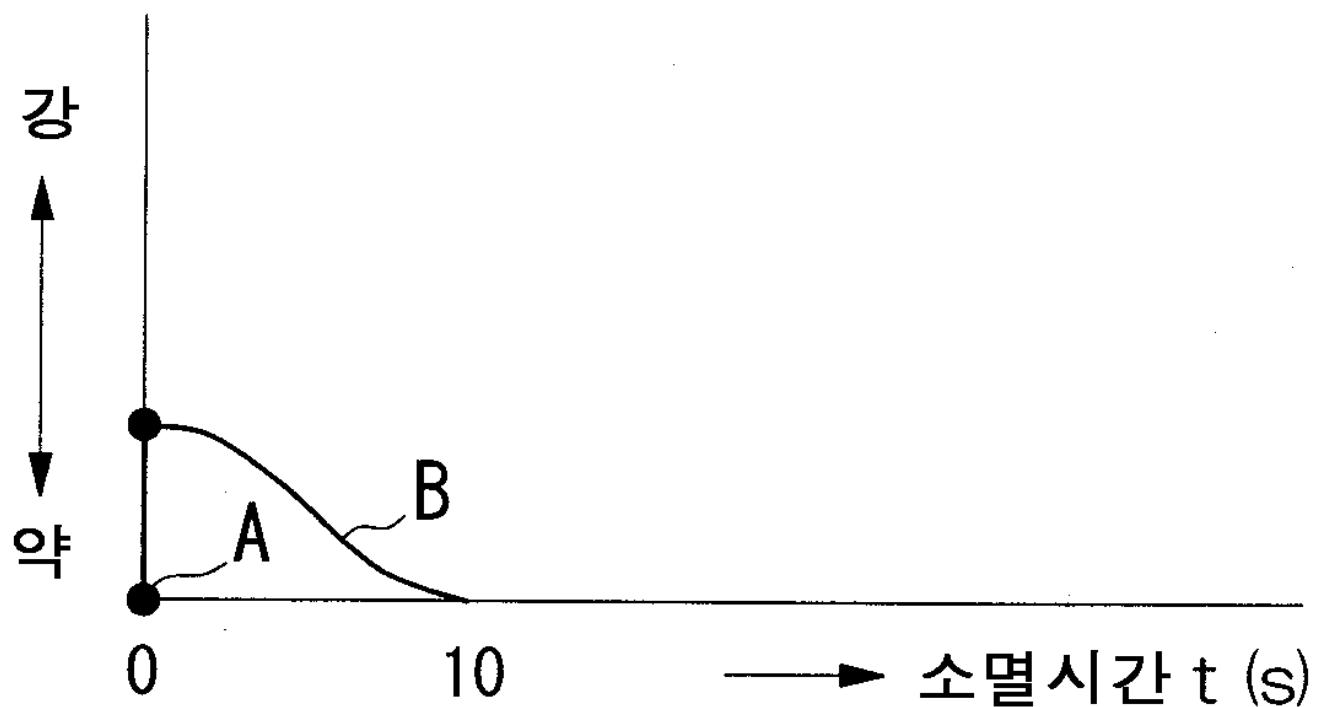


4

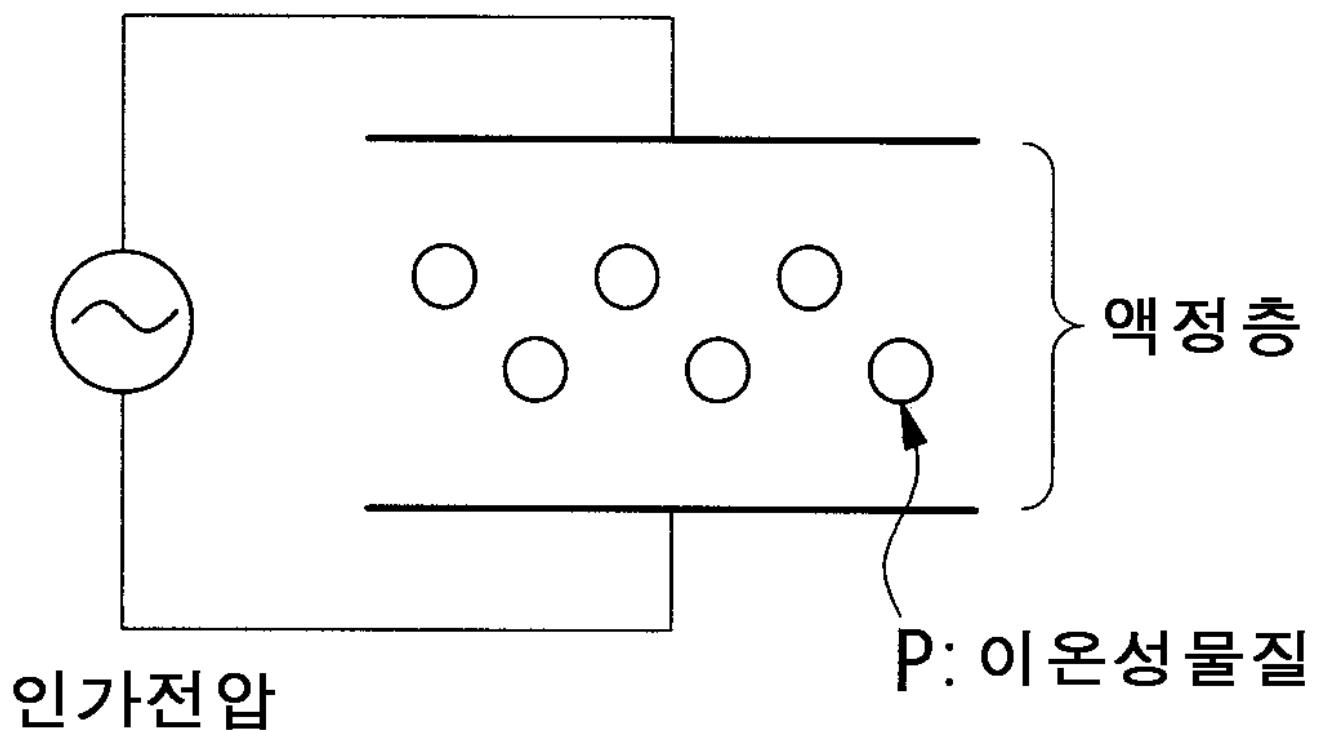




6

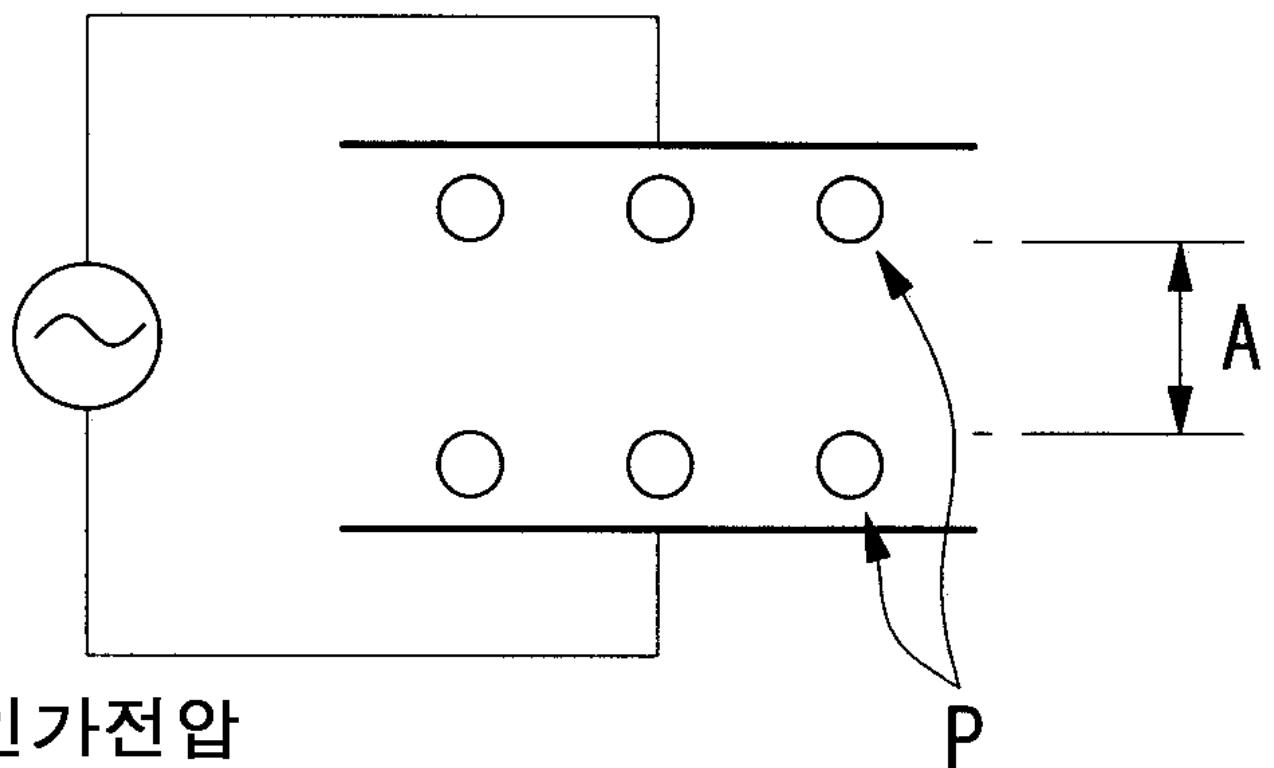


7a



인가전압

7b



인가전압

P

专利名称(译)	液晶显示器及其驱动方法		
公开(公告)号	<a href="#">KR1020010078029A</a>	公开(公告)日	2001-08-20
申请号	KR1020010003313	申请日	2001-01-19
[标]申请(专利权)人(译)	NEC液晶技术株式会社		
申请(专利权)人(译)	日元号技术可否让这个夏		
当前申请(专利权)人(译)	日元号技术可否让这个夏		
[标]发明人	KUSANAGI TOMOHIRO		
发明人	KUSANAGI,TOMOHIRO		
IPC分类号	G02F1/133 G09G5/00 G09G3/36 G09G G09G3/20 G02F		
CPC分类号	G09G5/006 G09G3/3648 G09G3/3688 G09G3/3677 G09G2310/0245		
代理人(译)	JO , EUI JE		
优先权	2000016302 2000-01-25 JP		
其他公开文献	KR100417181B1		
外部链接	<a href="#">Espacenet</a>		

### 摘要(译)

计划保护残像。提供了液晶显示装置及其驱动方法，其旨在提高液晶的寿命和可靠性。在用户执行关闭操作的情况下，信号超时检测电路(60)检测到输入信号将关闭的事实。判断信号(POWC)为“L”并且用户输出。如果判断信号(POWC)被称为圆短路多谐振荡器(71)，则接收到“L”，将预定脉冲长度的脉冲信号(MG)输出到移位寄存器(12)和输出开关电路(100)。使用此，移位寄存器(12)将规定的周期栅极线激活。输出开关电路(100)同时将预定的基本数据线连接到公共电位(Vcom)。结果，在显示面板(50)的所有单位像素中，同时处于活动状态。由于向像素电极提供公共电位(Vcom)，因此可以释放液晶中累积的电荷。液晶显示器。

