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(24) 2004 07 15

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(22) 2001 02 27 (43) 2001 09 07

(30) 2000-051613 2000 02 28 (JP)  
2000-349839 2000 11 16 (JP)

(72) 2 2 3 가 가

2 2 3 가 가

2 2 3 가 가

2 2 3 가 가

2 2 3 가 가

가 2 2 3 가 가

(74)

1

(54)

1 1 ,  
 2 1 (rounding) ,  
 3 1 ,  
 4 1 ,  
 5 1 ,  
 6 1 ,  
 7 1 ,  
 8 ,  
 9 가 ,  
 10 가 ,  
 11 30 ,  
 12 11 (時) ,  
 13 11 ,  
 14 11 ,  
 15 1 ,  
 16 15 ,  
 17 15 ,  
 18 15 ,  
 19 15 ,  
 20 2 ,  
 21 3 ,  
 22 3 ,  
 23 4 ,  
 24 4 ,  
 25 4 , 가  
 26 4 , 가  
 27 5 ,  
 28 ,  
 29 1 ,  
 30 2 ,  
 31 3 ,  
 32 ,  
 33 (全面) ,  
 34 ,  
 35 ,  
 36 ,

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14, 15, 18 : 14a, 15, 18a : ( )  
 20, 20A : CR ( )  
 50 : 51, 101 :  
 710 : ( ) C :  
 DCA : ( 1 ) DCS : ( 2 )  
 Pa : Pd :  
 Pxa : 1  
 Pxb : 3 ( )  
 Pxc : 2 Pxd : 5  
 Pyd : 4 ( )  
 Pya : SFA, SFB :  
 X, X1 Xn, Y, Y1 Yn, W, W1 Wm :  
 Vf : Vr : ( 2 )  
 Vr1 : ( 3 ) Vxg : ( )









), (b) . . . . . , (a) . . . . . Pa ( . . . . . ) Pa . . . . . ( . . . . . , w  
), (a) . . . . . Pa . . . . . , 1  
가 . . . . . , (b) . . . . . Pa . . . . . , . . . . . 가 . . . . . ,  
가 . . . . . , 10-91116 . . . . . , 29 (622)  
(623) . . . . . 가 . . . . .



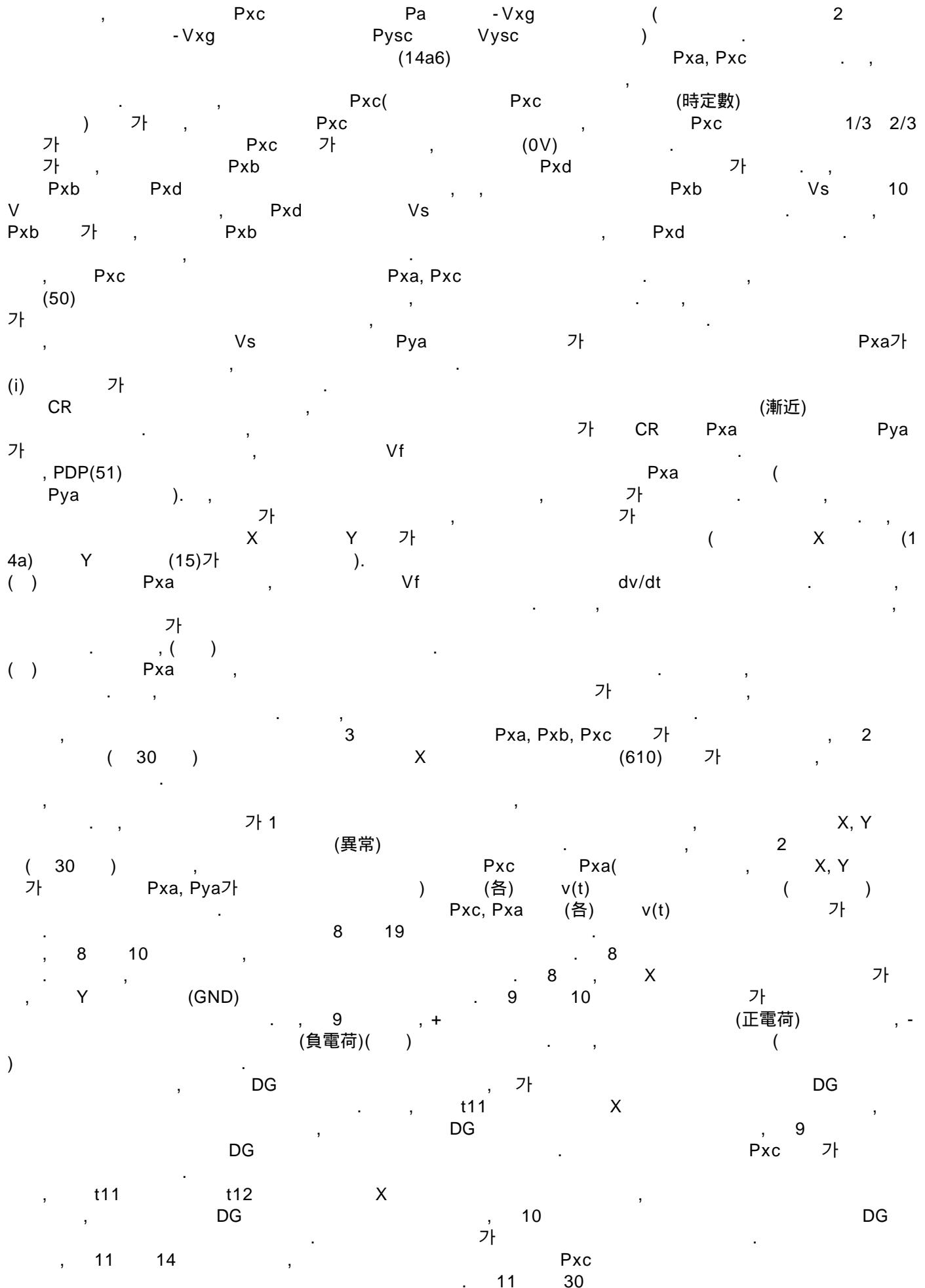


29, 28, 1, 1  
 2, 1, 2, 2, 2, 28, 29  
 30, 1, 2, 1, 2, 1, 2, 3  
 31, 16, 30  
 , ,  
 ( 1 )  
 ( 1 )  
 1, 1 (50) PDP(51), (50)  
 (41) (14, 15, 18), (40), (14, 15, 18)  
 (18) W (18a) IC(18b) 가 X IC(18b) W (18a)  
 (14) W (18a) IC(18b) (14a) IC(14b) 가 Y  
 IC(14b) X (14a) (40) (15) W (18a) IC(14b)  
 가 (FET) (14, 15, 18) (14, 15)  
 PDP(51), 1 2 가 1 PDP 가 2 가 . , PDP(51) / PDP  
 (101) , , X 가 1 , , Y 가 2 , ,  
 (述) . , 1 PDP(51) n X1 Xn, Y1 Yn , m W1 Wm  
 ( 2 X (14a) )  
 2 가 , X (14a) , 2 PDP(51) CP  
 2 , X (14a) (14a6) (14a6)  
 2 ( ) , ( ) , ( ) , ( ) , 1  
 , ( ) , CR ( ) , ( ) , LC ( )  
 (14a61) (14a6) 가 4 (14a61 14a64)  
 R14a61 R14a61 SW61 (14a62 14a64)  
 SW62 SW64 가 R14a62 R14a64 , SW61 가  
 (FET) R14a63) > ( R14a64 , IGBT( SW61 SW64 ,  
 2 (14a61, 14a62) , ( ) Vr (14a63, 14a64) , CP ( X )  
 CP (14a6) , Vr CR 3  
 SW61 (ON) 62=CP x R14a62 CR  
 W62 61=CP x R14a612 CR , , SW61, SW62  
 14a61+R14a62) , ( R14a61) > ( R14a62) , 612> 61> 62 , 가  
 (-Vr) CR 3









(VX-VY)	, 11 (a) 12 14 (c)	X 9 X Vp가 가 가	VX, Y 가 VX, Y 가 VY
(610)가	, t21 VX 1	(VX-VY) Vp가 가 가	, Y 0 가 ,
(610)			
(610)			
DG	Vp		12
, (610)	, t22 VX 1	X 0 가 , Y	Vya가 가 ,
, (610)		(VX-VY)	
Y)	DG ( ) 가	DG	Pxc 13 , (VX-VY)
DG G			D
, t23 ,			
, 1			Pxc
	Pxa, Pxb, Pxc가	(推移)	16 19 , 15 9 가
, Pxa, Pya	, Y Vya가 가 (VX-VY) Pxa, Pya )가	, t31 VX X (V	
-Vxa가 가 , 가		(既述)	
X-VY)	DG	( )	
, 16 DG	Pxb가 , t32 DG X Vxb가 가 , Y ( 17 0 ) 가		
가 , Pxc가 , t33 DG X (-Vxg) 가 , Y 0 (VX-VY) 0			
가 , Pxc , Pxc , Pxc			
DG			DG
, DG Pxa			가 가
, 1	X, Y Pxc	(VX-VY) ( 30 )	
, 1 Pxc	W Pxc 가 (0V) W, X (-Vxg)		X
, Y ,	W, X X, Y W, X		
가 , PDP(51)	X (正) (負) 가 , X, W		
, W Pxa, Pxb, Pxc, Pxd CR			
	가 LC		
, Pxa, Pxd CR			Pxa, Pxc
( 2 ) 20 , 2 PDP			
20 , 2 가 PDP			20 , (既述)



21	가	(	Pxa, Pxb, Pxc	가	가	가	Pxa, Pxb, Pxc
가	Pxb	가	가	2	,	,	SFA, SFB Pxb Pxa
,	,	SFB	Pxd	(	1	2	) Pya, Pxa
,	, 1	SFB	가	,	가	,	1 2
SFB	SFA	SFB	SFA	SFA	1 2	,	SFA, SFB
,	SFB	1	SFA	1	1	,	SFB
( )	1 3	X CR	Y, W CR	가	가	,	(14a6) X, Y, W
가	1 (15, 18)	2	W	CR	18a)가	,	X, Y 가
1	X	Y	CR	(14a, 15)	18a)가	,	CR
가	21	SFB	X X	(14a)	Y Y	(15)	Y, X 가
( 4)	2	( Pxc	Pyd	Pxb가	Pa	,	X, Y Pa
,	4	4	2	)=(-(Vxg-Vysc))	Pxc	,	X, W
,	1 3	X가 1	X가 1	Y가 2	W가 2	2	(18)
4	4	5	5	X	(14)	W	
23	4	PDP	23 (c)	Pxc	23 (a)	(b)	5 5 (c)
가	1	( 5 )	Vxg가	Pxc	Pxc	Pxc	Pa
(-Vxg)	Vxg	,	X, W	Pd	가	Pa	X, W
xc가	가	,	Pa	Pa	가	Pa	Pa
g   - Vt)	4	Vxg	)	Pxc	Pa	( Pxc	X, W
g   - Vt)	5	,	Vt(>0)	( Vxg )	Pa	( Pxc )	X, W
,	23	,	Pd	Pd	Pa	( -Vxg )	X, W
,	4, 2	,	Pxc	Pxc	Pa	,	X, W
23	23	(	( -Vxg )	Pa	,	(	
xc	가	,	Pxc	,	,	,	
		24	X, (k+1)	X, (k+2)	X	24 (a)	23 (d)
		24	5	5	가	24 (e)	W, k
					Pxc		





1 , 3  
 1 가 . ,  
 2 , ,  
 , ,  
 , , , ( )  
 3 , 1 2 가 .  
 4 ,  
 5 , 가  
 1 , 가 ,  
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 , ,  
 6 , 5 가 , 1  
 1 , 가 ,  
 7 , , 3 , , 3 ,  
 , , , 2 , 가  
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 8 , , 2 ,  
 , ,  
 , ( ) , 1 2 , ,  
 , ,  
 9 2  
 8 1 3 가 , 1 3 , 1 가  
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 10 ,  
 , 1  
 11 , 4 , 5 , 가 , 2  
 , ,  
 , , 4 (全面)  
 12 , , , , 10 , 4 , 10 , 가  
 (後) , , , , , , , , ,  
 ) , , , , , , , , ,  
 13 , ,  
 , ,  
 , ,  
 14 2 , 2 , , , , , ,  
 ( 1 2 ) 2 , , , , , ,  
 1 2 , , , , , , , ,  
 1 2 , 1 , 2 , , , , ,  
 13 , , , , , , , ,  
 15 , 3 , , , , , , ,  
 , , , , , , , , ,  
 14 16 , , , , , , , , ,  
 16 , , , , , , , , , 13

17	,	2	가
18	,	3	가
19	,	4	가
20	,	5	가
21	,	6	가
22	,	7	가
23	,	8	가
24	,	9	가
25	,	10	가
26	,	11	가
27	,	12	가
28	,	13	가
29	,	14	가
30	,	15	가
31	,	16	30

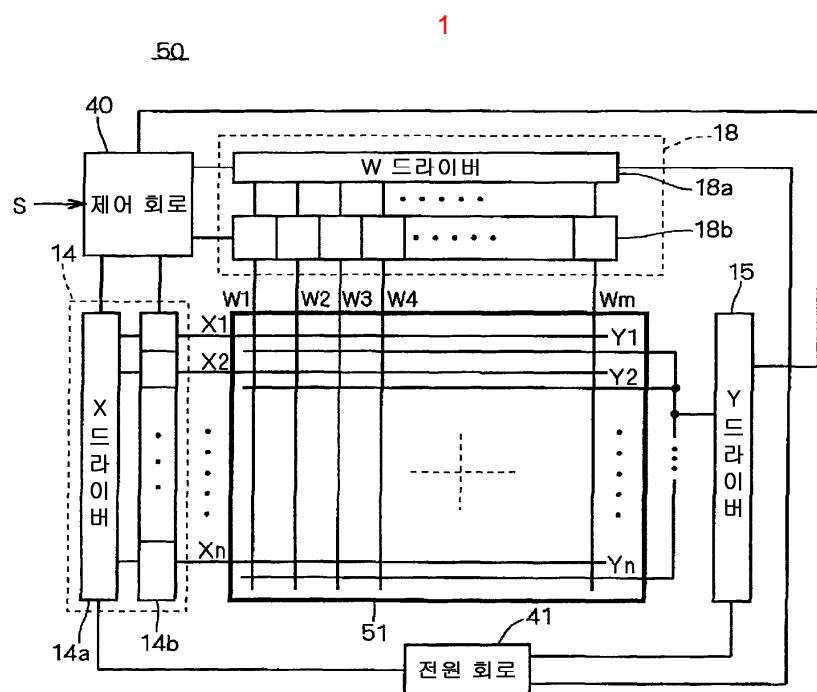
가 가

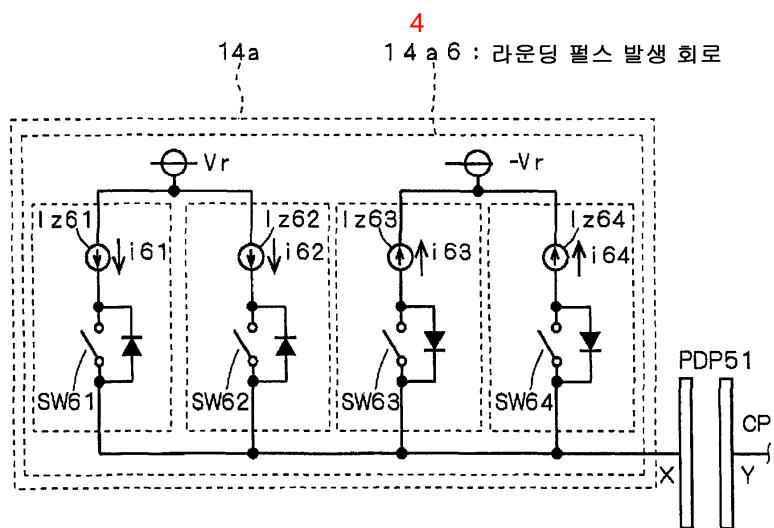
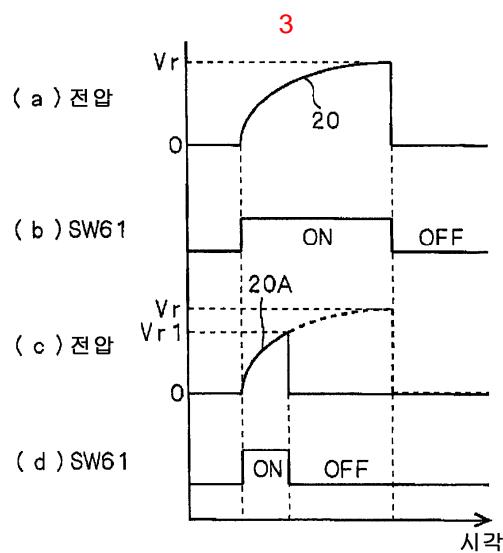
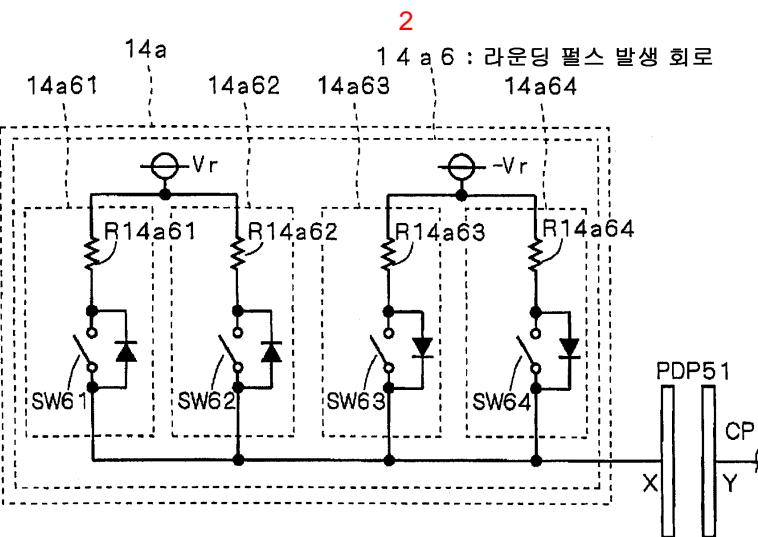
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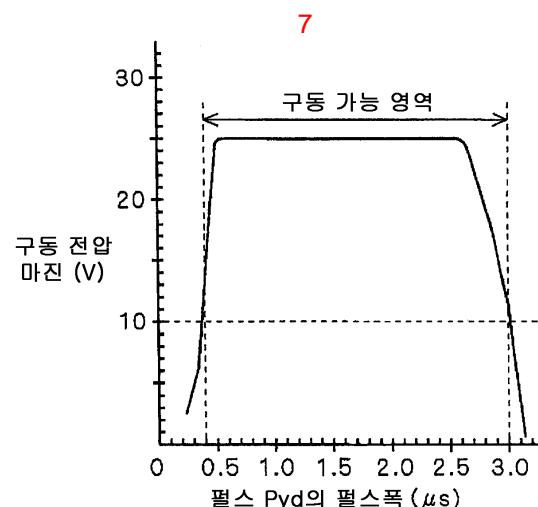
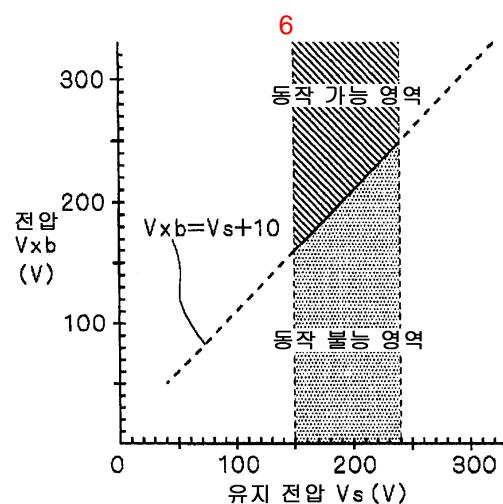
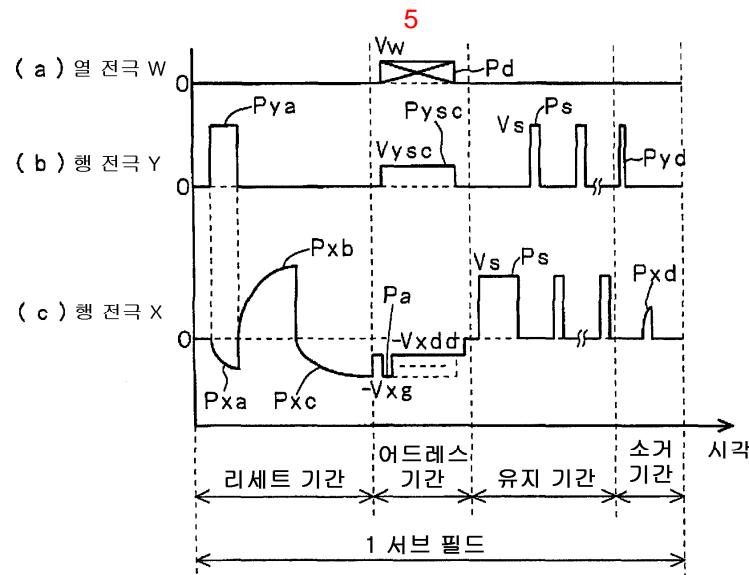
1. ) 1 2 , ) 1 2 ,  
1 2 , 1 2 , 가 3 , , ,  
가 1 , 1 2 , 가 3 , , ,

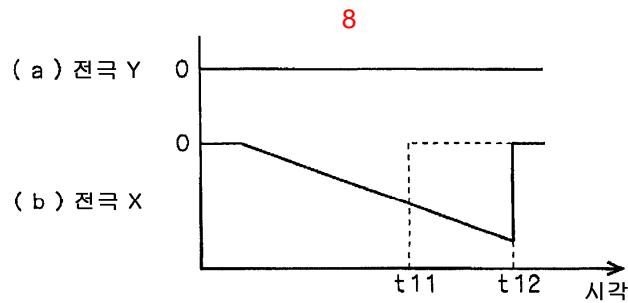
2.

3.

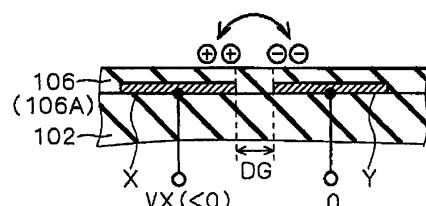




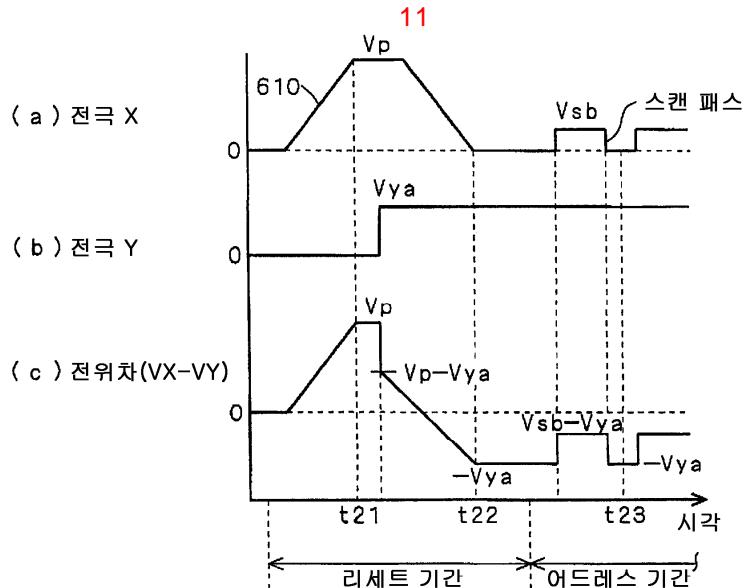
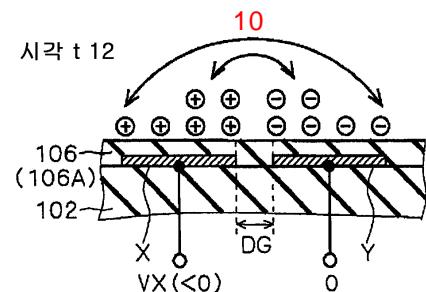




9  
시각  $t_{11}$



10  
시각  $t_{12}$



12  
시각  $t_{21}$

