

(105) LCD (106), (104), (101), (107), (108),
 PWM (4) (2), (2) (104) (103)

1

CRT CRT
 1 가 1 1
 1 () () 1 1 1
 () . ,

泰市郎: 「栗田
 (信學技報), EID99-10(1999-06)」 1

1 가
 (, “ ”)가 , 08-500915

14 (103), (104), (LCD) (105), LCD (106), PWM (107) (102),
 08) (103), (104), (LCD) (105), LCD (106), PWM (107) (102),
 4) TFT (108), LCD (106), (10)

15 , 15
 “VGA”
 480 , 525 , 60Hz . VGA
 480/525/60[s]=15.2[ms]
 (101)

16 (101) (101) RAM(109), RAM(109)
 (110), (111) / 가 (112) ,
 109) / RAM(109) ,
 (110) RAM(109) ,
 (111) RAM(109)
 (112) (111) ,
 (110) ,

17 16 (101) , 1
 (110)가 RAM(109) ,
 RAM(109) PLL ,
 (休止) 가 , 1 , 가
 17 가 ,

ON ,
 (1600 x 1200) , 가 TFT UXGA
 5 15.2ms 6ms 가 , 1200/480=2.5가 , VGA 1/2.
 (105) TFT ,
 OCB(Optically self-Compensated Birefringence mode)
 OCB 4ms()

15 , 1 6ms, ()
 4ms 6+4=10ms가

PWM (102) 6.7ms 18 (10
 3) (104) , 18 (103)
 50kHz , PWM , PWM O
 N/OFF , PWM , PWM (102)
 104) , 6.7ms (104)가 1 (103)가 (6.7ms

가 , 가 , 60Hz 가 ,
 가 , 가 ,
 가 , 가 ,
 (104) "BAM"("SCA") 19 "YOX", "LAP",
 (LAP) 가 , 6.5ms 15
 6.7ms

2 , 6.5ms , 15 A , 6.5ms 가
 (BAM) , 가 ,
 (YOX) , 0.1ms 1.5ms 2
 (SCA) (BAM) , ,
 , , ,
 , , ,
 1 , , ,
 , , ,
 , , ,
 , 1 , 가 ,
 2 1 , 가 가
 , , ,
 1 , 2 1 , ,
 2 , , ,
 3 2 , 1 2 가 ,
 , 3 , ,
 4 2 , 2 가 가 ,
 , 4 , ,
 5 2 , , ,
 , , 1 , ,
 1 , 2 , ,
 , 1 2 ,

11

12 11 ,

12

13 11 ,

가

13

14 13 ,

14

가

15 13 , ROM

가 15 ROM

16 1 , 2

16 2

17 16 , ,

1

1

17 1

18 1 ,

18 , 가 가

19 1 , 가

19
가 .

20 1 , 가 DMD(Digital Micromirror Device)
DMD , 가

21

21
가 .

22 21 , , 1 , , 2 1 , .
1 2

22 , ,

23 22 , 1 2 가 .

23 , .

24 22 , 2 가 가

24 , .

25 21 , ,

25 , .

26 25 , , 가 1 가 1
1 가 1
2 ,
1 1 2 ,
1 2 2 .
2

, 26 가 가

,

27 26 , , ,

, 27

28 26 , , 1 2

, 28

29 21 가 ,

, 29

30 29 , 가

, 30

31 29 ,

가

31

32 31 , 가 가

, 32

가

33 21 , 2

, 33 2

34 21 ,

34
 , 가가 .
 35 21 , 가 .
 , 35 , 가 .
 36 21 , 가 DMD(Digital Micromirror Device)
 , 36 DMD 가

1 1 ,
 2 (2) ,
 3 PWM (4) ,
 4 1 ,
 5 2 ,
 6 (22) ,
 7 (30) ,
 8 PWM (24) ,
 9 2 ,
 10 3 ,
 11 (38) ,
 12 ROM (42) ,
 13 3 ,
 14 ,
 15 ,
 16 (101) ,
 17 (101) ,
 18 (103) ,
 19 .

가 .

(1)

1 1 (1) 01), (106), (2), PWM (107) (4), (108) (103), 1 (104), 14 (105), LCD (1)

2 (2) 1 (2) 1 (8) , (8) (6) , 가 (6) (ABS)(10) , (12) , (12) (14)

(8) (2) , 1 2 가 (10) (12) 1 , (12) ") (, ") (, " "0", "1") , (, ")

3 PWM (4) PWM (4) PWM (2) PWM 가 PWM (4) 60Hz PWM 240Hz PWM (16) , 60Hz PWM (18) , (2) 60Hz PWM (20) PWM (18) PWM (2) (20) 60Hz PWM (18) 15 4 240Hz PWM (16) , 60Hz PWM 가 (18)

240Hz PWM 가

240Hz PWM PWM (16) 60Hz PWM (18) PWM PWM 39% , 240Hz , 가 PWM 가 PWM 가 240Hz , 가

1

(2)

5 2 (1) 01), (22), PWM (24), (103), (104), (105), LCD (1)

(106), (107), (108) . , 5 , 14

6 (22) (22) 가 . EN (EN (ENAB

ABLE__a, ENABLE__b (6) , (8) , (10) , 1

ABLE__a)가 (30) , (10) 1

LE__b)가 (26) , (10) (28)

(14) . , 6 , 2

7 (30) . (ENABLE__a, ENABLE__b)

__b” (30) . “ENABLE__a” , “ENABLE

(26) (26) (14)

(26) (28) (31) (14)

8 PWM (24) PWM (24) (22)

가 PWM (24)

(32) , (24)

(34) , (34) 8 3

60Hz PWM (18)

PWM (24) (104)

9 (104) 15

(104) (104)

(34)

9 (35) 7ms가 , (35)

0ms가 ,

(32) (34) 1bit 256

가 8bit 0ms 8ms 32

가 31.5kHz , 1 1 가

가

2 , (34)

(3)

10 3 (36) (101) (38) (104) (105) , LCD (106) , PWM (107) (40) (103) (108) , 10 (11) , (38) (6) (8) (10) , ROM (12) (12) 가 11 (12) ROM (42) (12) ROM (12) ROM (42) 12 가 (42) PWM (40) (104) (104) (104) 가 가 =2 가 가 가 13 / 가 가 가 3 ((light bulb)), DMD(Digital Micromirror Device) 가 , DMD (短) 가 가 가 1 3

가

가 .

(57)

1.

,
,

,

2.

1 ,

가 ,

,

1

1

2

,

3.

2 ,

1

2

(pulse duty)가

4.

2 ,

2

가 가

5.

2 ,

,

,

1

,

1

2

1

2

.

6.

1 ,

,

가

,

6 7. ,
 1 가 1 가 1 2
 1 1 2
 1 2 1 2
 2 2

7 8. ,
 ,

7 9. ,
 2 , 1

9 10. ,
 ,
 3

1 11. ,
 가 ,

12.

11 ,

11 13. ,

가

13 14. ,

13 15. ,

ROM

1 16. ,

2

16 17. ,

1 ,

1

1 18. ,

1 19. ,

1 20. ,

DMD(Digital Micromirror Device)

21.

22.

21

23.

22

24.

22

25.

21

26.

25

27.

26

1

1

2

2

가

가

가 1

가 1

2

1

1

2

2

1

2

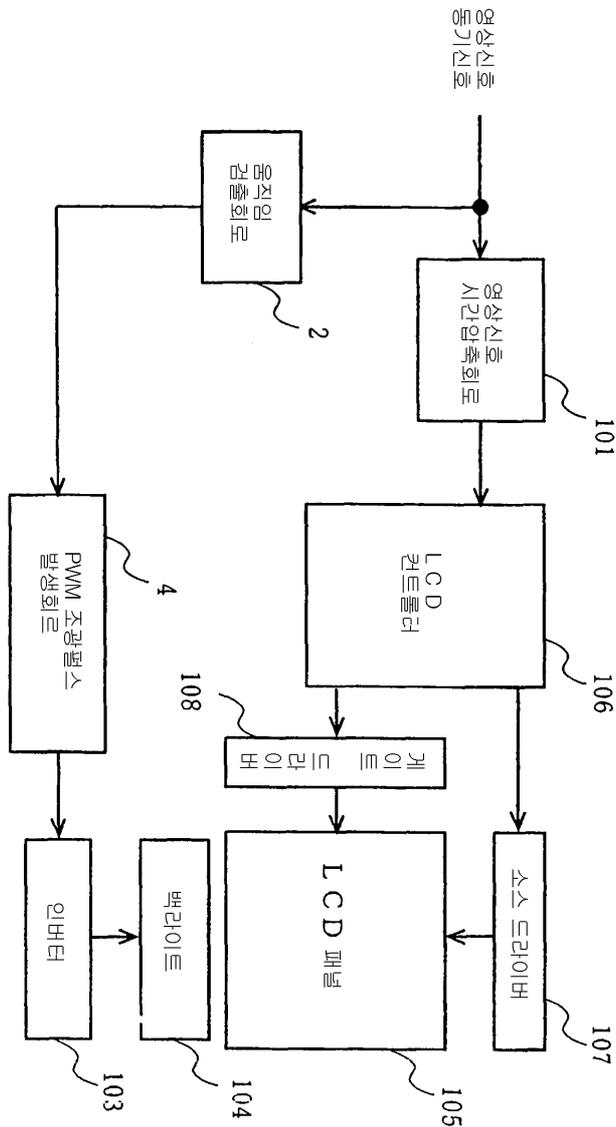
21

36.

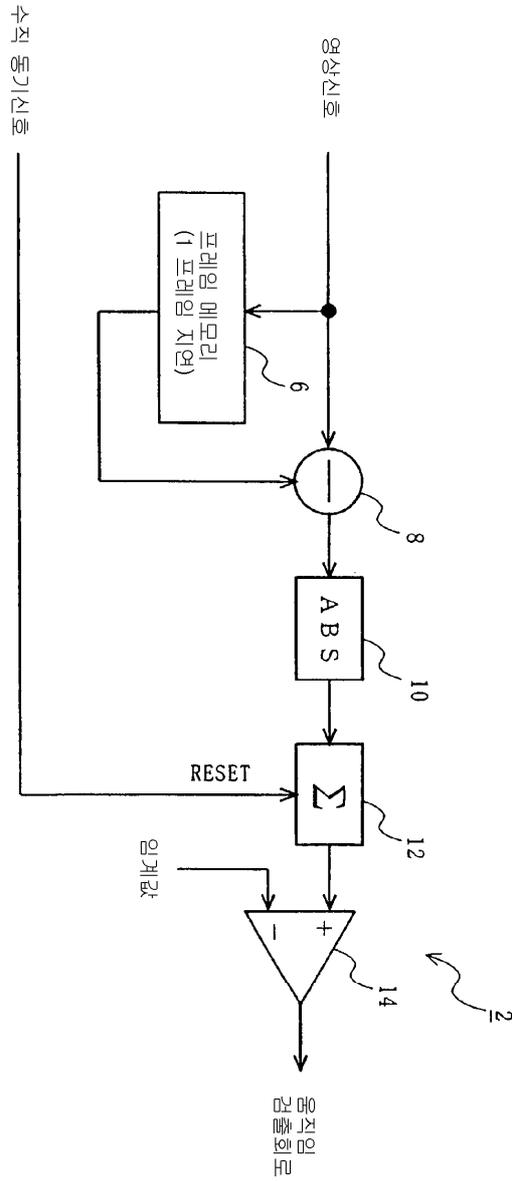
21

DMD

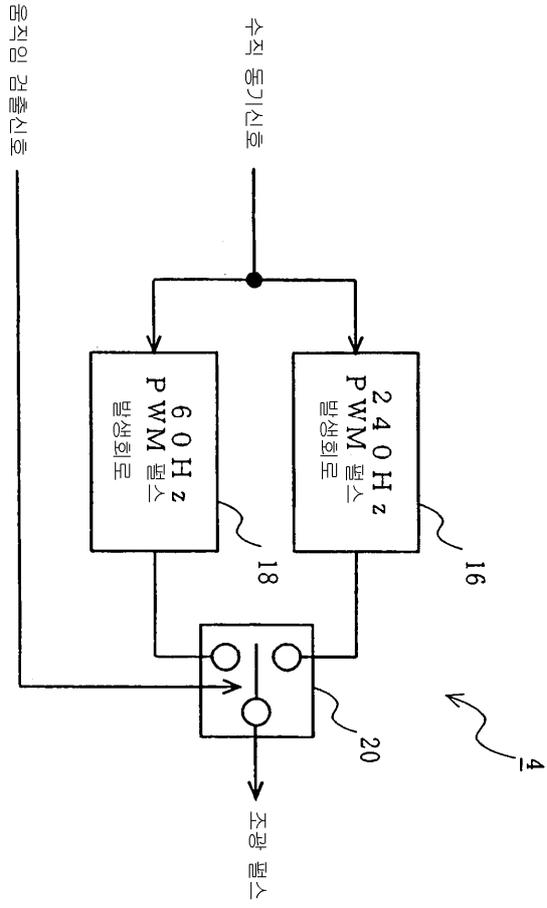
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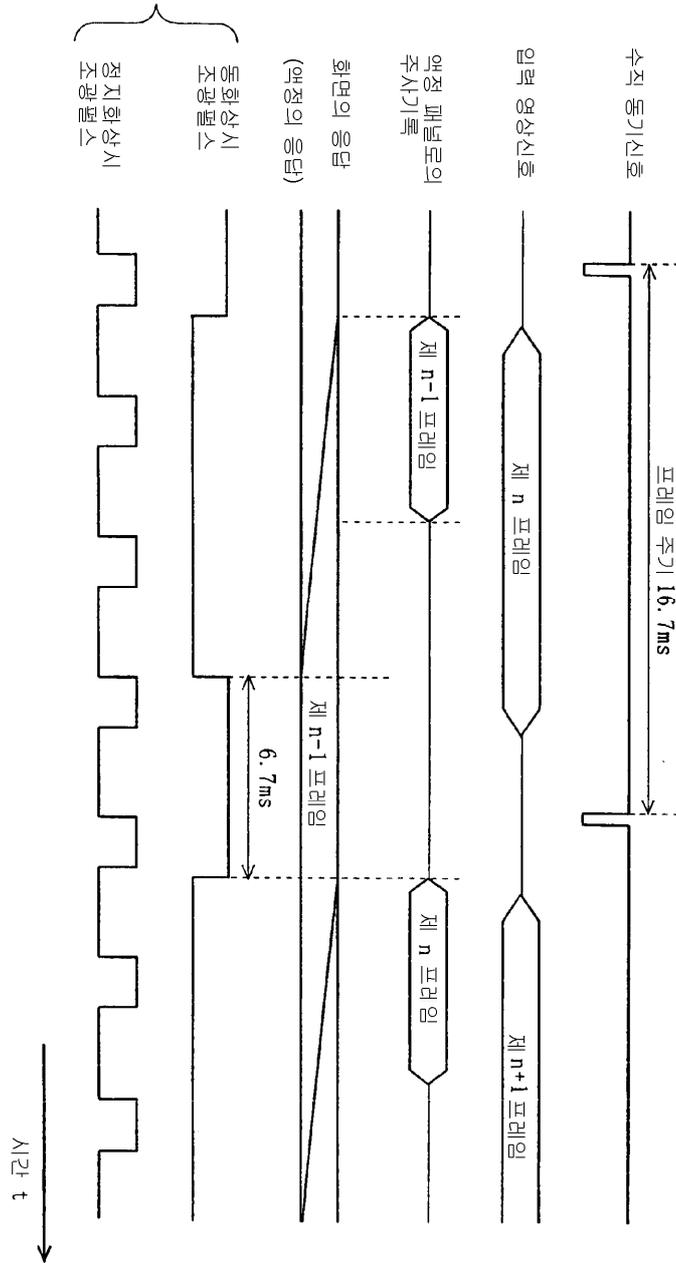
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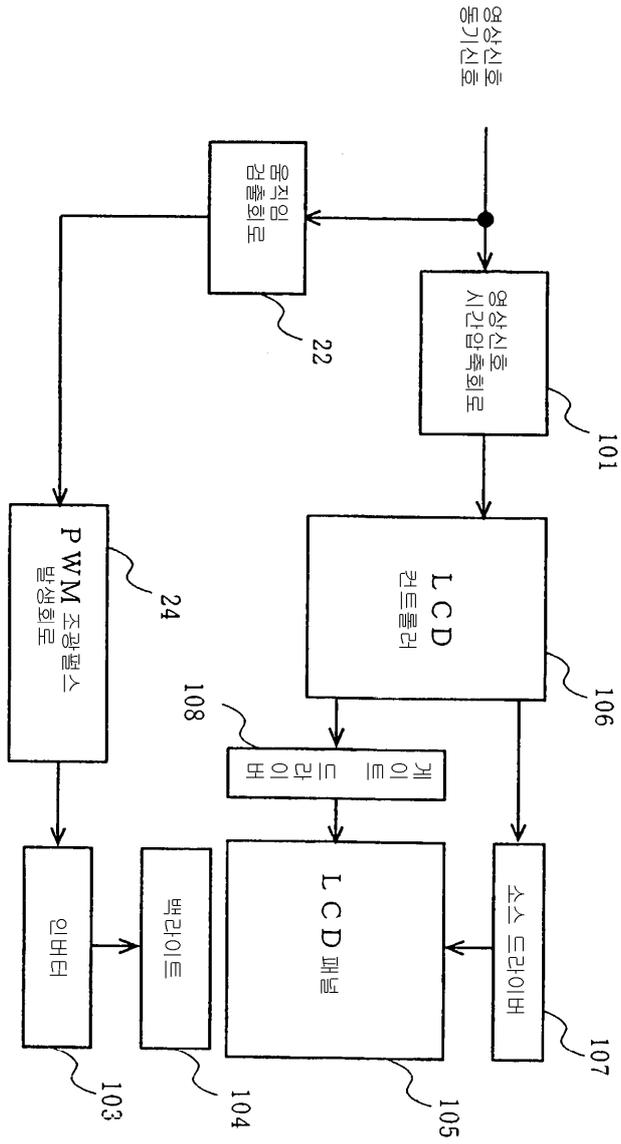
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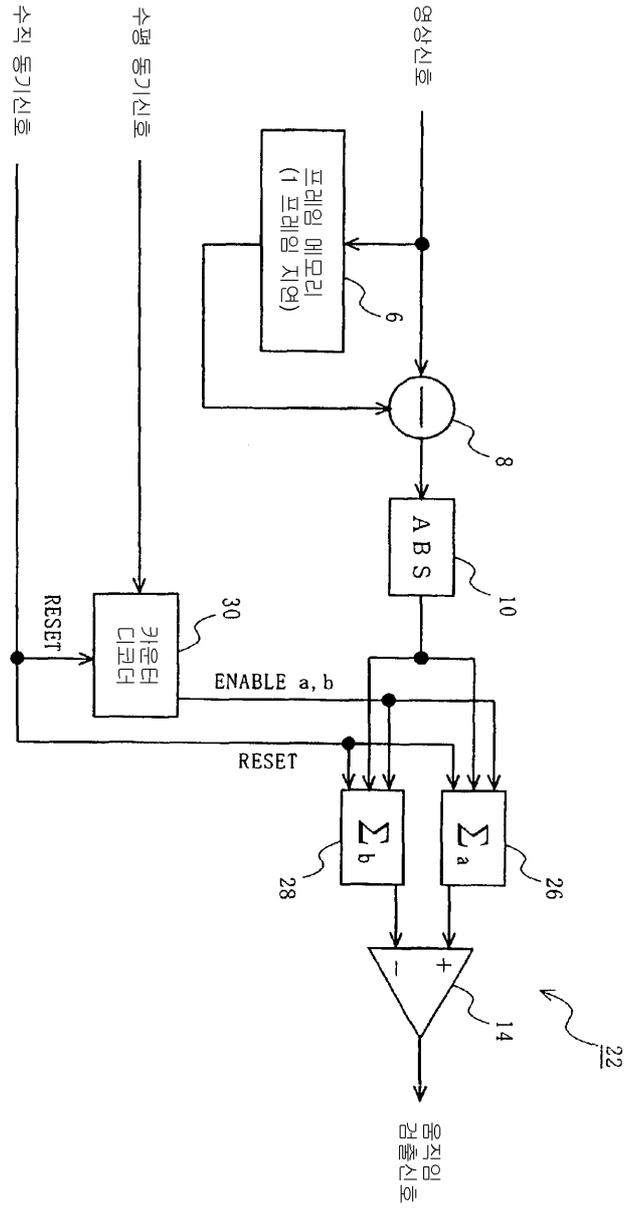
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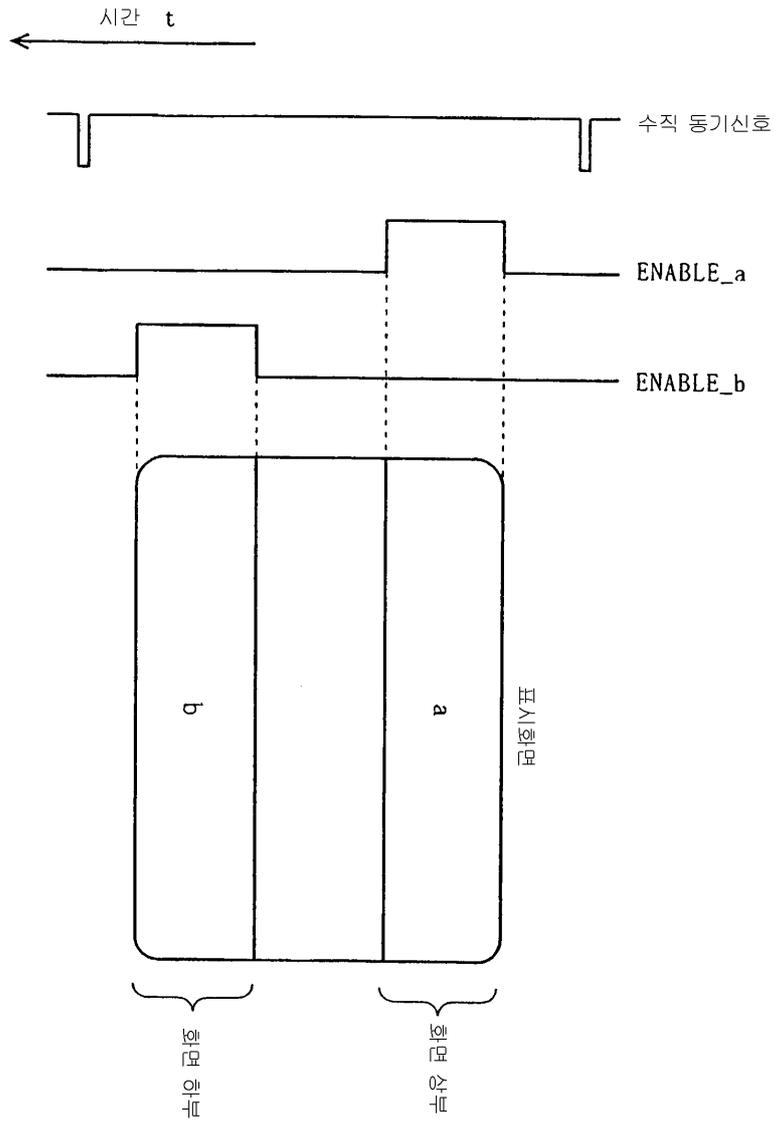
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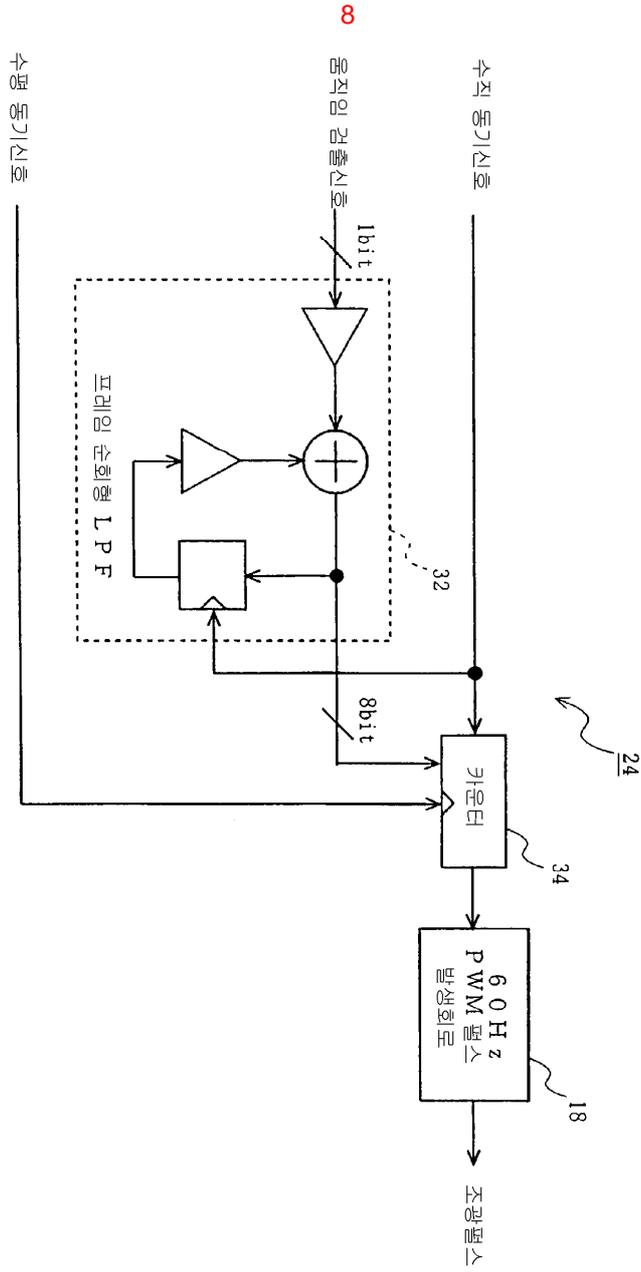


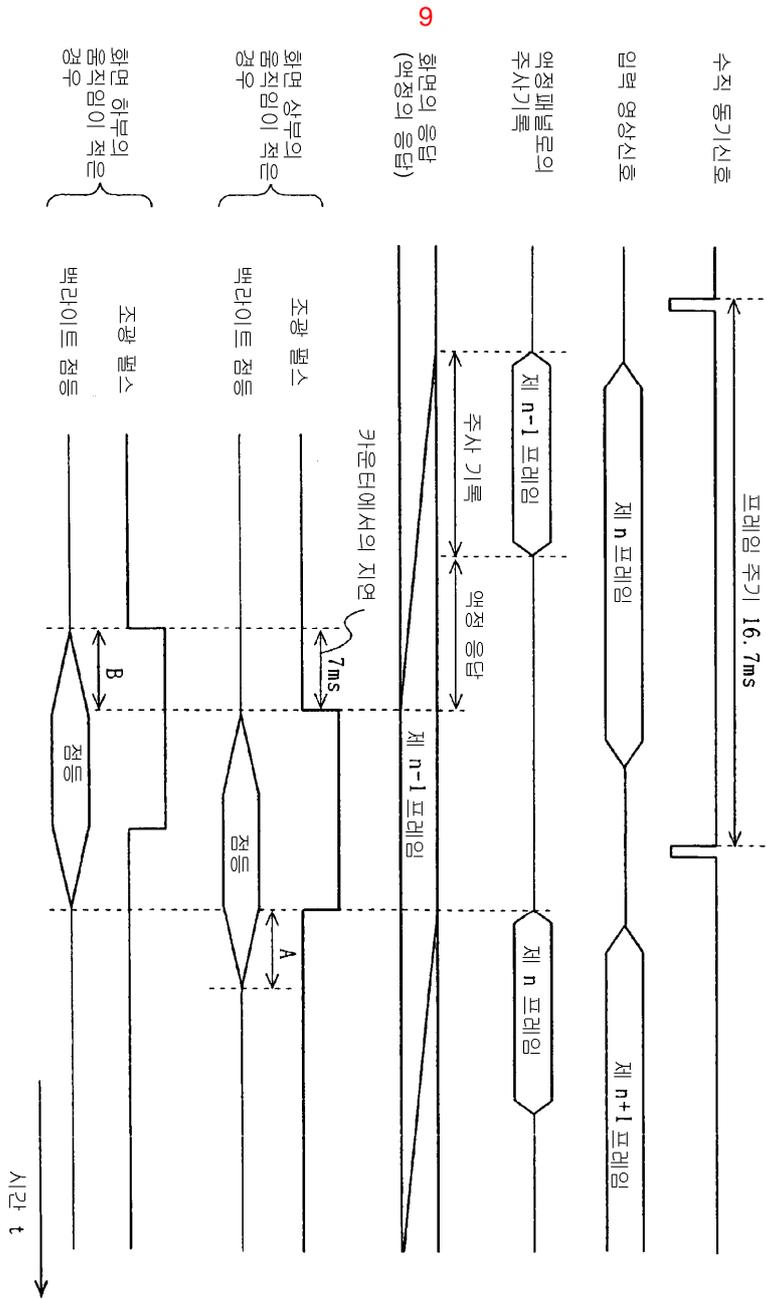
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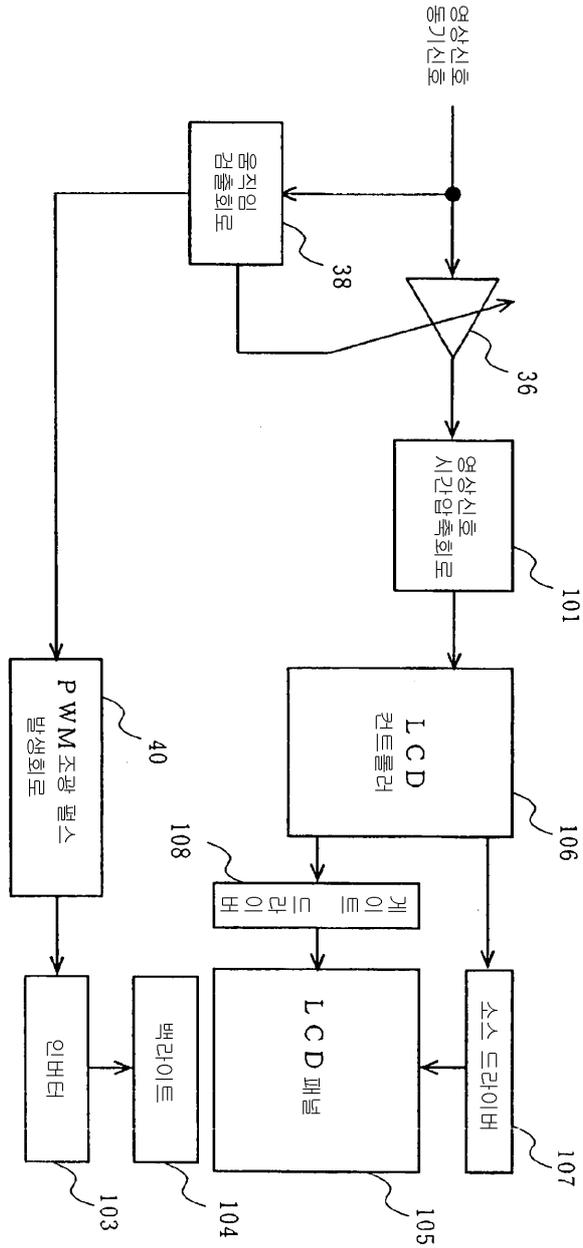
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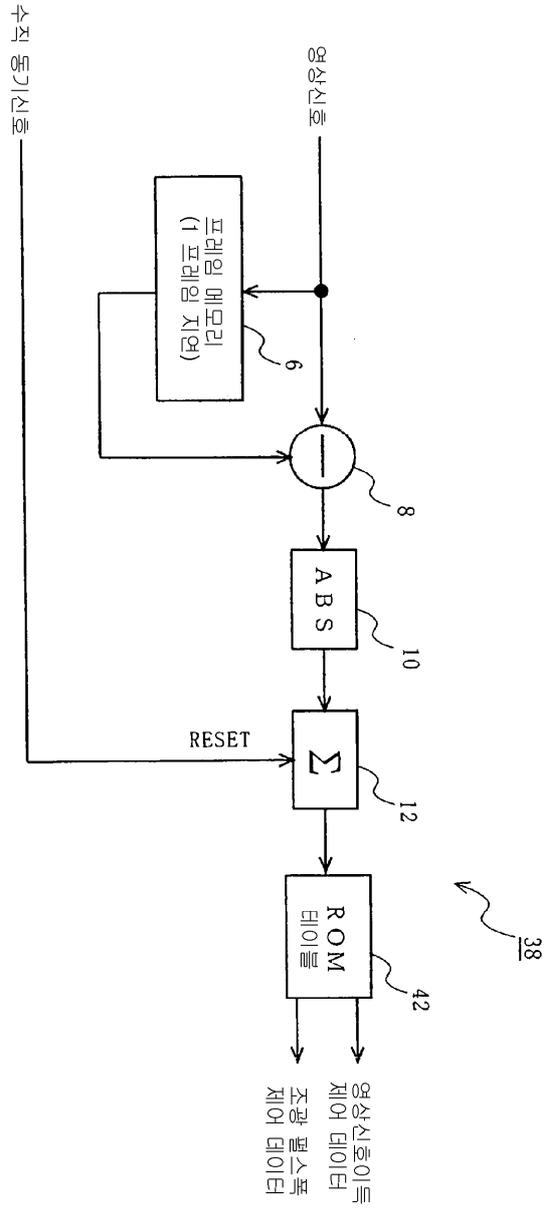




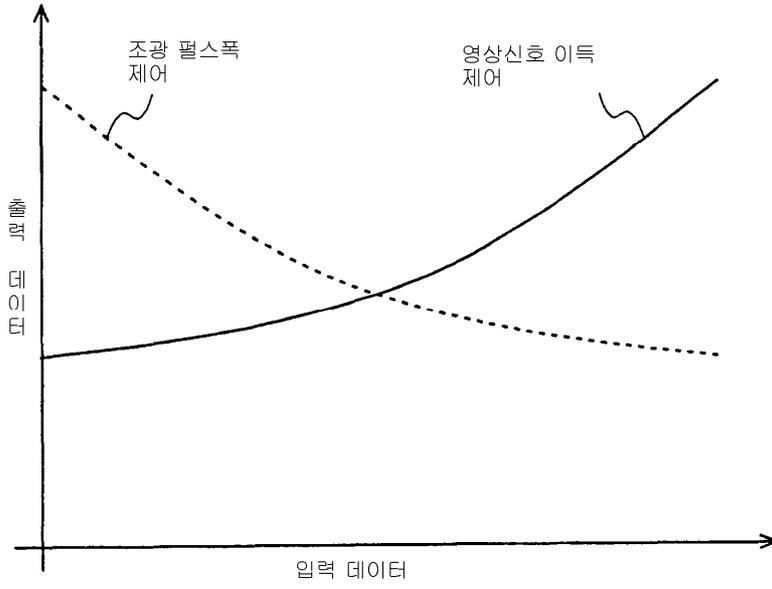
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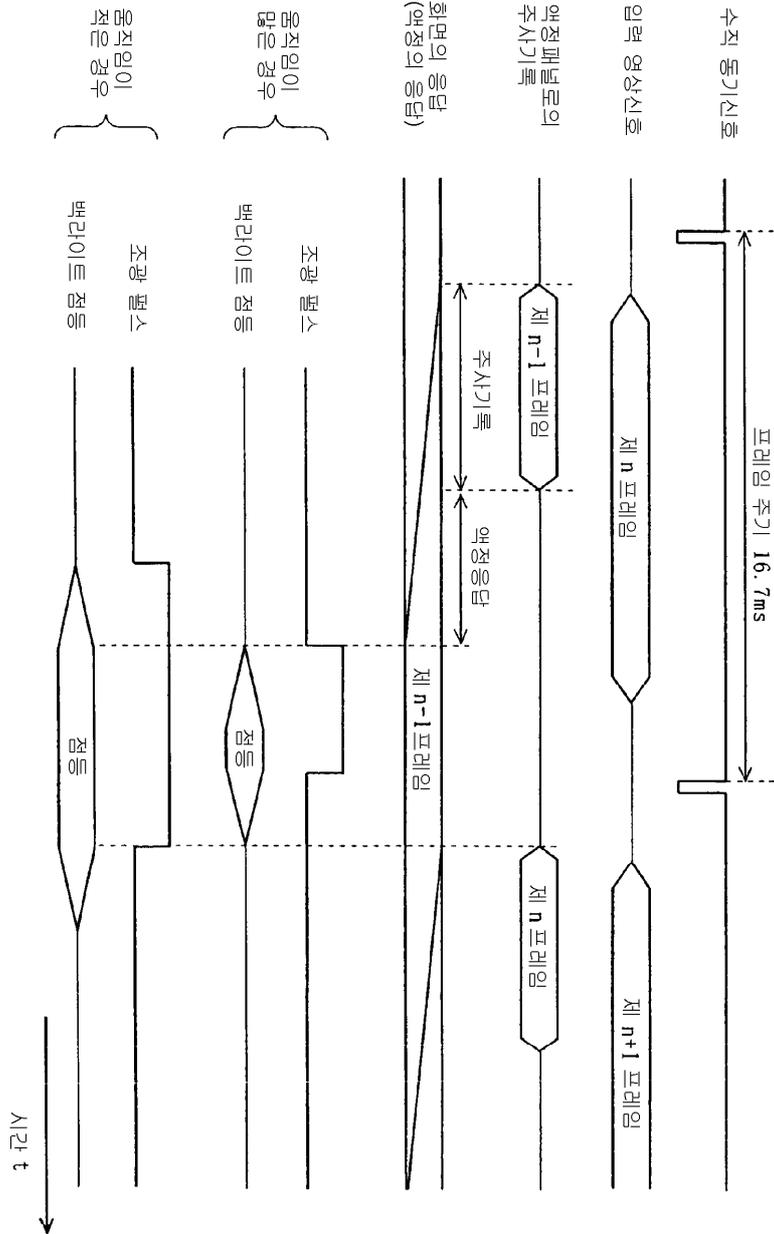
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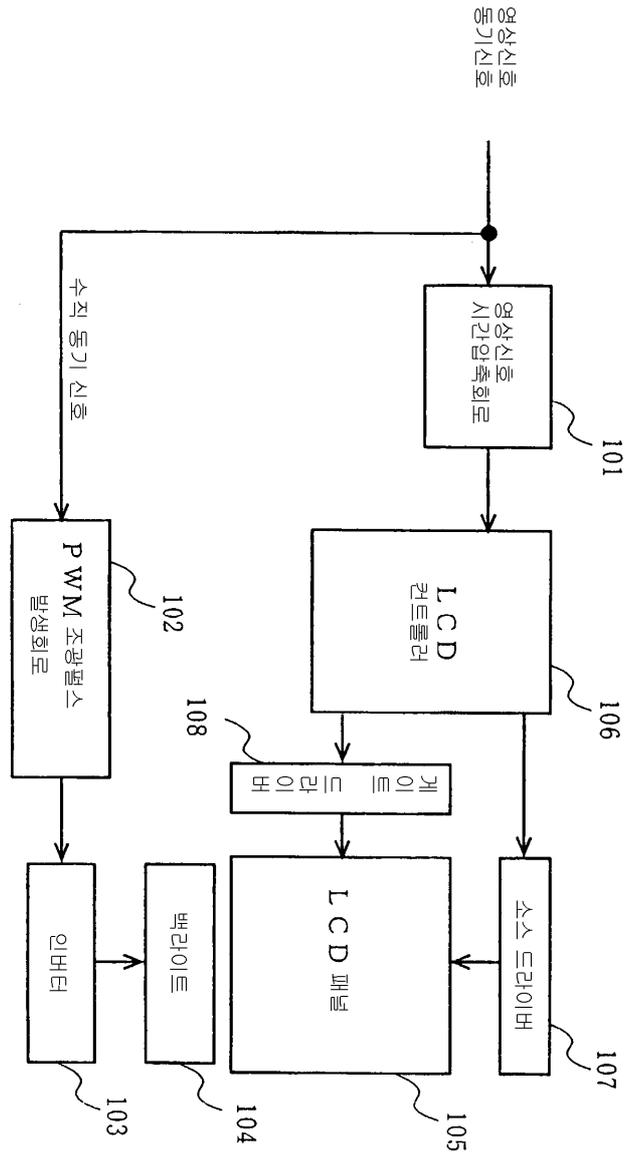


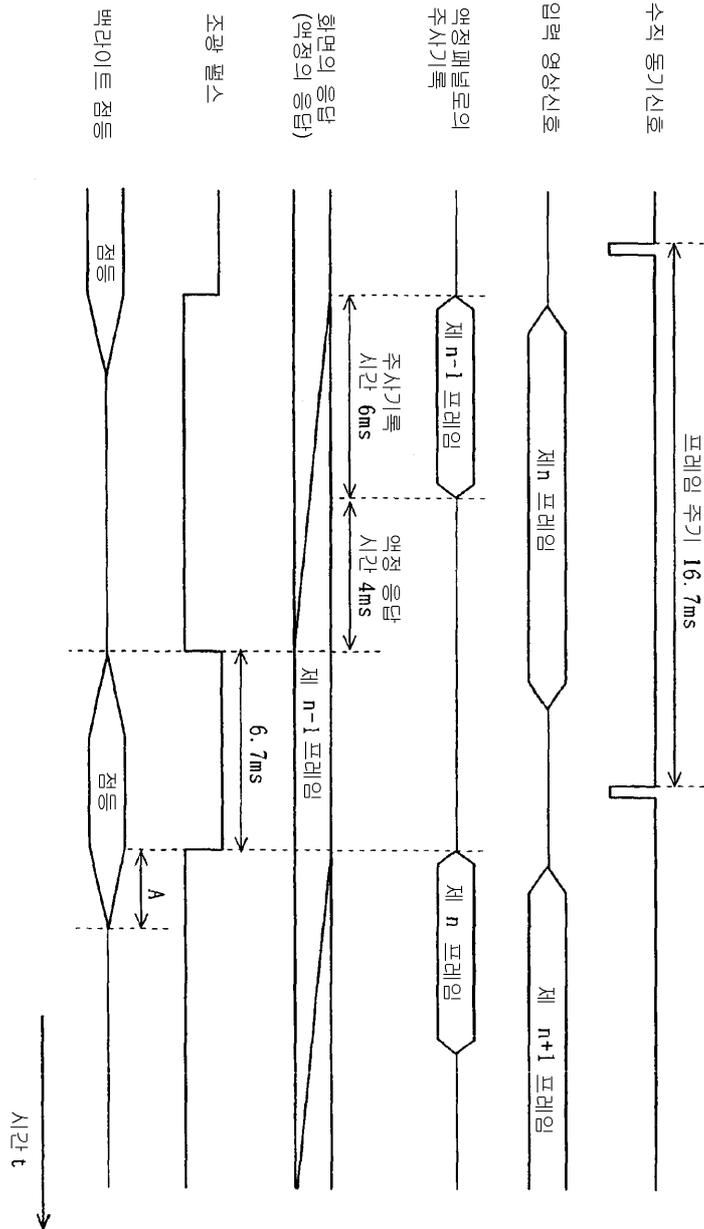
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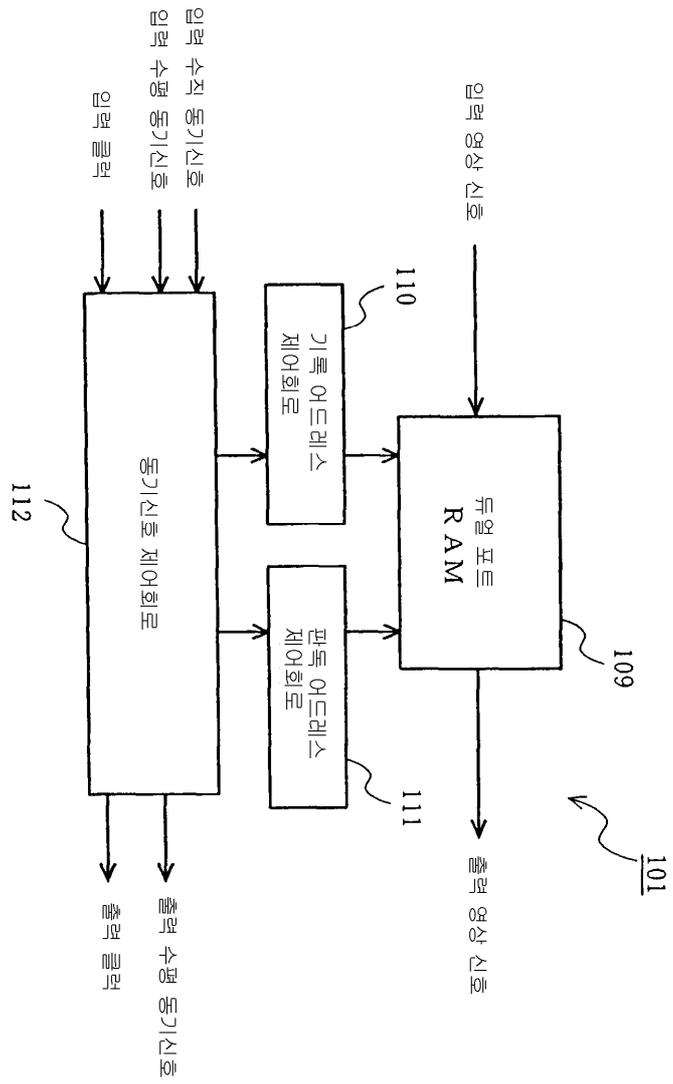


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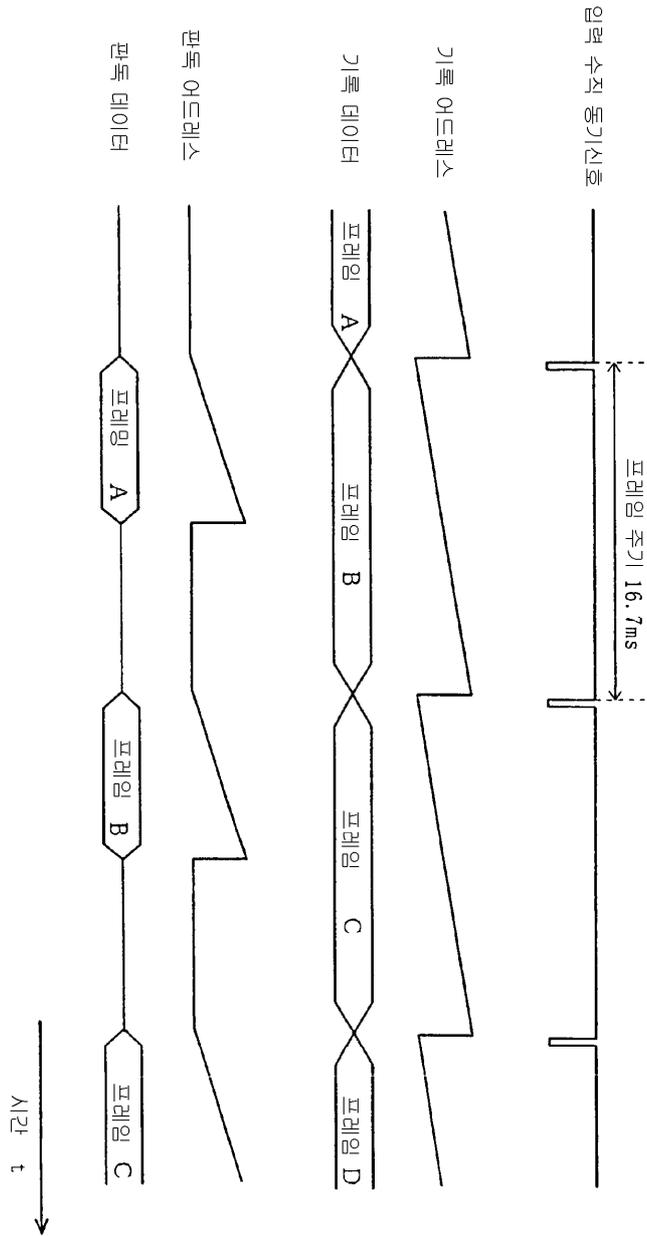




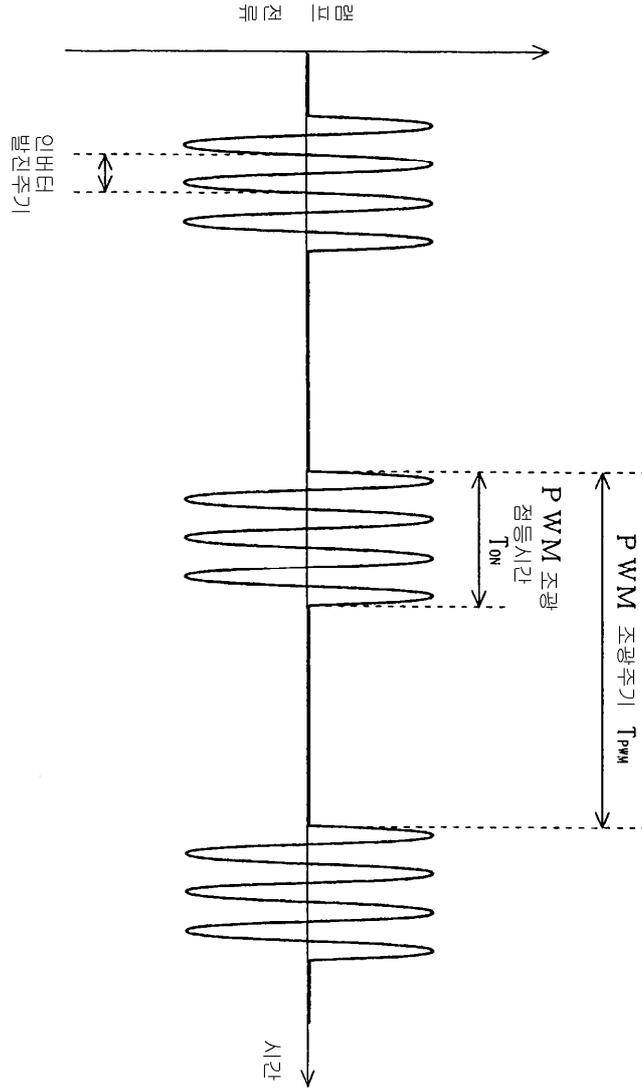




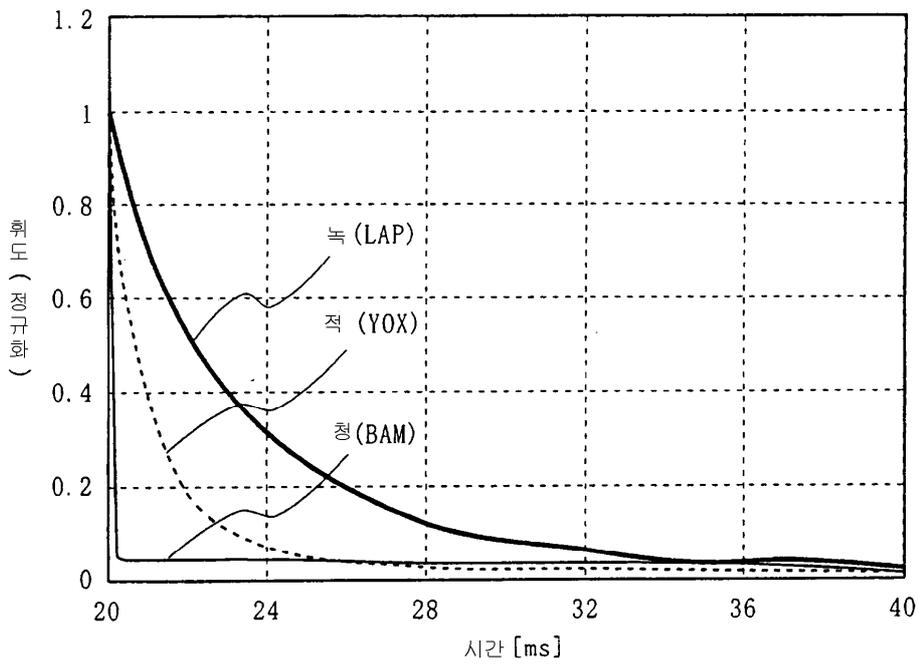
17



18



19



专利名称(译)	图像显示装置和方法		
公开(公告)号	KR1020030046335A	公开(公告)日	2003-06-12
申请号	KR1020027015951	申请日	2002-03-20
申请(专利权)人(译)	松下电器产业株式会社		
当前申请(专利权)人(译)	松下电器产业株式会社		
[标]发明人	FUNAMOTO TARO 후나모토다로 MACHIDORI WATARU 마치도리와타루 ARIMOTO KATSUYUKI 아리모토가츠유키 OHTA YOSHIHITO 오타요시히토 KOBAYASHI TAKAHIRO 고바야시다카히로 KUMAMOTO YASUHIRO 구마모토야스히로 KARIYA TETSUO 가리야데츠오		
发明人	후나모토다로 마치도리와타루 아리모토가츠유키 오타요시히토 고바야시다카히로 구마모토야스히로 가리야데츠오		
IPC分类号	G02F1/133 G09G3/34 G09G3/20 G02F1/13357 G09G3/36		
CPC分类号	G09G2320/0247 G09G2320/103 G09G3/3406 G09G2320/066 G09G3/36 G09G2320/062 G09G2320/0653 G09G2320/064 G09G2320/0626 G09G2320/106 G09G2310/08 G09G2320/0646 G09G2320/0261		
代理人(译)	KIM MYUNG SHIN PARK JANG KYU 金正HO		
优先权	2001088162 2001-03-26 JP		
其他公开文献	KR100524456B1		
外部链接	Espacenet		

摘要(译)

图像显示装置和方法技术领域本发明涉及一种图像显示装置和方法,更具体地,涉及一种由背光(104)表示的液晶显示装置,包括:视频信号时间压缩电路(101),用于在时间方向上压缩和输出视频信号;LCD控制器106,源极驱动器107和用于基于视频信号驱动液晶面板105的栅极驱动器108,用于基于视频信号检测显示图像的运动量的运动检测电路2 PWM调光脉冲发生电路4,用于根据运动检测电路2的检测结果产生不同频率的调光脉冲,以及逆变器103,用于基于调光脉冲点亮背光104可以减少运动图像的图像的轮廓模糊并减少静止图像上的闪烁。 1

