

(19)
(12)

(KR)
(B1)

(51) 。 Int. Cl. ⁷
H01J 17/49

(45)
(11)
(24)

2002 11 07
10 - 0359572
2002 10 22

(21) 10 - 2000 - 0019053
(22) 2000 04 11

(65) 2001 - 0095739
(43) 2001 11 07

(73) 20

(72) 2 가 - 406

4 1135 - 31

3 628 - 20 11 2

454 201 - 914

(74)
:

(54)

24μm

1
 2 1
 3 1
 4 1
 5 1
 6a
 6b 1
 6c 2
 6d 3
 7 8 6a 6d
 9 10
 11 5
 12 6
 13 7
 14
 15 16 11 14
 17 8
 18 9
 <
 1 : 10 :
 12Y : / 12Z :
 13,48,50,52,54,56,58 : 14,22 :
 16 : 18 :
 20X,88,90,92,96,112,116 : 24 :

26 : 30 : PDP

32 : / 34 :

36 : 60,62,86,94,98,114,118 :

(Plasma Display Panel : "PDP") 가
 가 . PDP
 (Cathode Ray Tube : CRT) 가 가 , 가
 . PDP ,

1 PDP .

1 , PDP (10) / (12Y)
 (12Z) , (18) (20X) . / (12Y)
 (12Z) ITO(Indium Tin Oxide) . / (12Y)
 (12Z) (13) (12Y,12Z)
 ITO가 (13)
 가 (12Y) (12Z) (10)
 (14) / (16) (14) 가 (14)
 (14) (16) (14) (14)
 2 (16) (MgO) .
 (20X) (18) (22), (24) (22)
 (24) (26)가 . (20X) / (12Y) (12Z)
 가 (24) (20X)
 , 가 가 . / (10,18) (24)
 가 가 가 .

2 3 PDP .

2 , 3 PDP m x n (1) /
 (Y1 Ym), (Z1 Zm) (X1 Xn)
 PDP(30) , / (32) ,
 (Z1 Zm) (Y1 Ym) / (X1,X

$3, \dots, X_{n-3}, X_{n-1}$ (36A, 36B) / $(X_2, X_4, \dots, X_{n-2}, X_n)$ (32) / $(Y_1 \dots Y_m)$ (1) $m \times n$ (Z1 ... Zm)
 (1) (34) (36A, 36B)
 $(X_1 \dots X_n)$ (36A) (36B) $(X_1, X_3, \dots, X_{n-3}, X_{n-1})$ (36B) $(X_2, X_4, \dots, X_{n-2}, X_n)$

3 PDP (Gray Level) 가
 1/60 (16.67ms) 3 8 , 256 (SF1 SF8)
 8) , 8 (SF1 SF8)
 $2^n (n=0, 1, 2, 3, 4, 5, 6, 7)$ 가

4 3 PDP PDP
 4 가 (Z)
 / (Y) PDP (Z) (Y) (-Vs)가 가 (Z)
 (-Vs) (Vd)가 (X) (X) / (Y) (Y)
 (Z) 가

가 PDP
 가 480 2.8μs 가 , PDP가 VGA (Video Graphics Array) (16.67ms) 8
 (Vsync) 3.05ms가 11.52ms가 가 PDP
 가 가

IC 가 가 PDP 가가

24 μ m

24 μ m

5 18

5 (X)

5 (42)가 (X) 가 T2 3.0 μ s (40)가 (X) 가 T1 (X) T3 가 T4 T1 0.1 μ s T2 (X) 가 T2 (X) T3 0.9 μ s T3 1.0 μ s (X) T2 T3 (42) 가 T2 T3 1.9 μ s

(點弧) (Firing Voltage)

6a

6a (48) (46) (X) (Z) (50) / (X) (Y)

6c

1 / (Y) (52) (60) (60) 6e (60) 100 μ m, 50 μ m (X)

6b

2

(60) 2 1 / (Y) (52)
 (54) (60,62) (Z) (54) (62)
 (62) 6e (52,54) 100 μ m, 50 μ m (Z)

6d 3 / (Y) (Z) (56,58)
 (64)가 (64) (56,58)

7 8 6a 6d (X) (66) (Total del
 ay) 1.7 μ s (X) (66)가 (Pea
 l Delay) 1.25 μ s (X) (X)
 (68) 1.6 μ s (X) (68)가 (X)
 1.07 μ s 6b 2 (X) (68)가 (X)
 (70) 1.5 μ s 3 (X) (68)가 (72)
 1.1 μ s 6d (X) (68)가
 1.42 μ s 1 3 (X) (68)가
 1.0 μ s 16%

9 10 4
 (X) (76) 1 (22) (X)
 2.2 μ s (22) 가 25 μ m 1.3 μ s
 (80) 1.66 μ s (22) 가 15 μ m 1.3 μ s
 (22) 25 μ m (22) 가 15 μ m 0.95 μ s
 (X) (74) 1.3 μ s (X) (82) 1.2 μ s
 (22) 가 8 μ m (X) (22) (82) 가 2 μ m
 4% 0,89 μ s (22) 가

11 5
 (86) (88) (88) (86)가 (88) 80
 μ m (90) 14 120 μ m
 5 (88) 40 μ m (86) (88)
 8) (86) 가 80 μ m (86) (88)

1mm

12 6

12 (94) (92) 6 (92) (94)가 (92) 100μm
 (94) (92) 80μm 100μm (94)
 (92) 1mm

13 7

13 (98) (98) 7 (96) (96) (98)가 80μm
 80μm, 60μm

15a 16 11 14

15a (88,96) (90) (100) 5 7 (100)
 1.3μs (102,104)
 1.1μs 5 (88) (102)
 1.1μs (88) (104) 1.1μs 0.83μs 7 0.62μs
 5 7

15b (90) (100) 6 (92)

(108) (92) 6 2 (110)
 (52,54) 2 (62) (94)가 (92) (110)
 (90) (100) 1.3μs
 (92) (108) 1.1μs 6
 0.8μs 6 2 1.1μs (110) 0.9μs
 0.6μs
 6 2 29%

17 18 8 9

(114) (114) (114) (114) (112)
 (112) (114) 40μm (114) (116) 17
 (118) 50μm (118) (116)
 (118) (118) 40μm 60μm 18 (1
 12) 50μm

가

(57)

1.

1 2 , 1 2
1 2 ;

24μm

2.

1 ,

3.

2 ,

1

4.

3 ,

2

5.

4 ,

6.

2 ,

가

7.

1 ,
8 μ m

8.

1 2 , 1 2 ,

24 μ m

9.

8 ,

10.

9 ,

11.

9 ,

가

12.

9 ,

13.

8 ,

14.

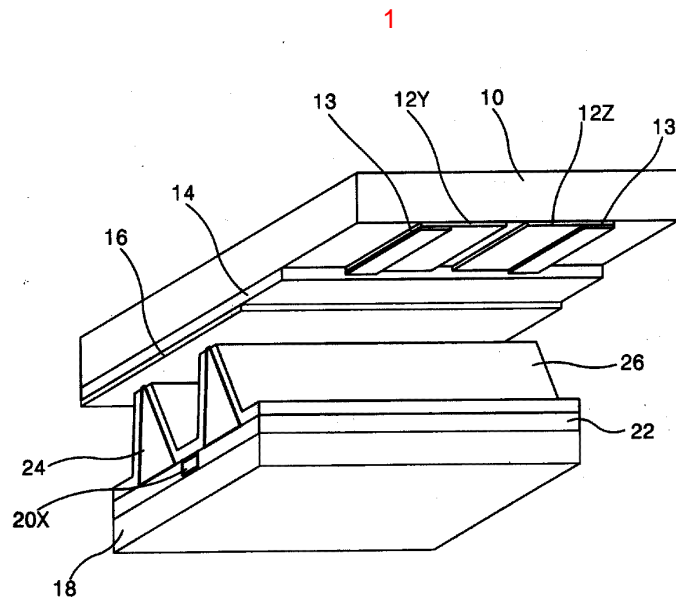
13 ,

15.

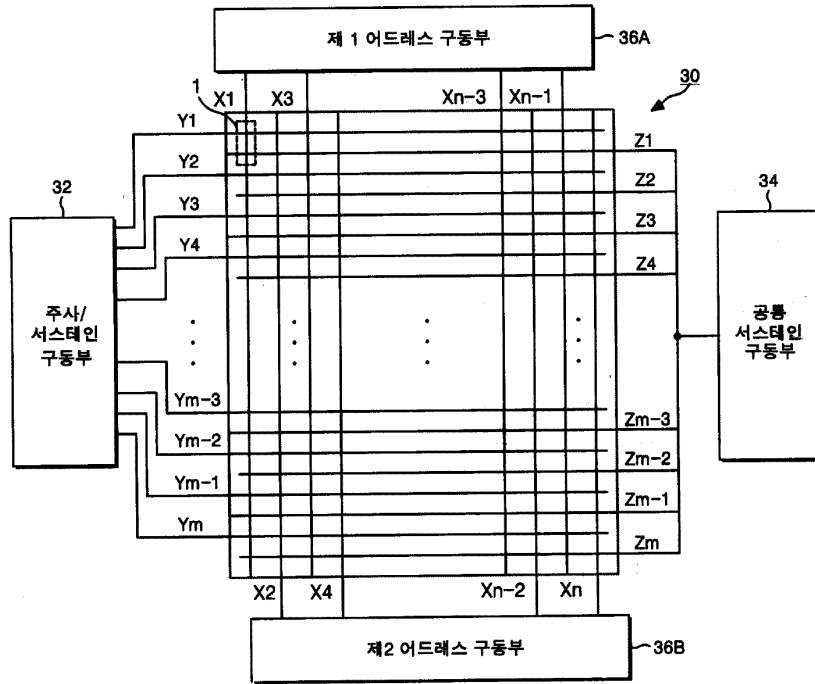
13 ,

16.

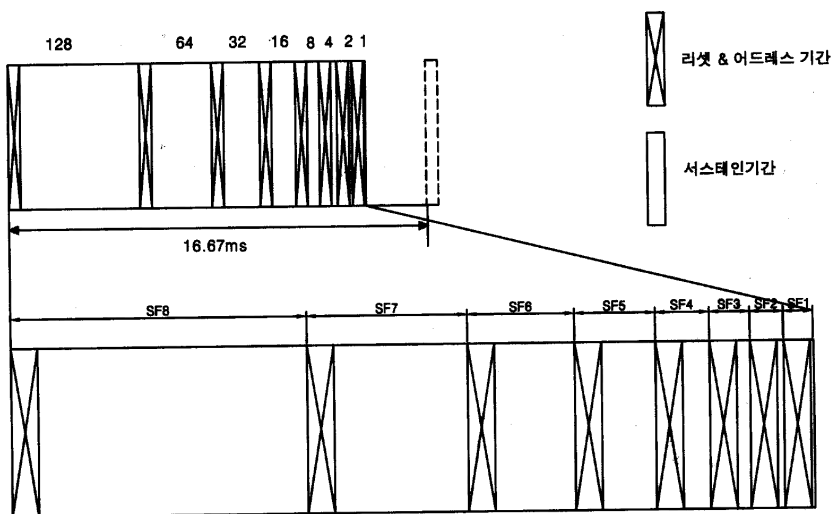
17.



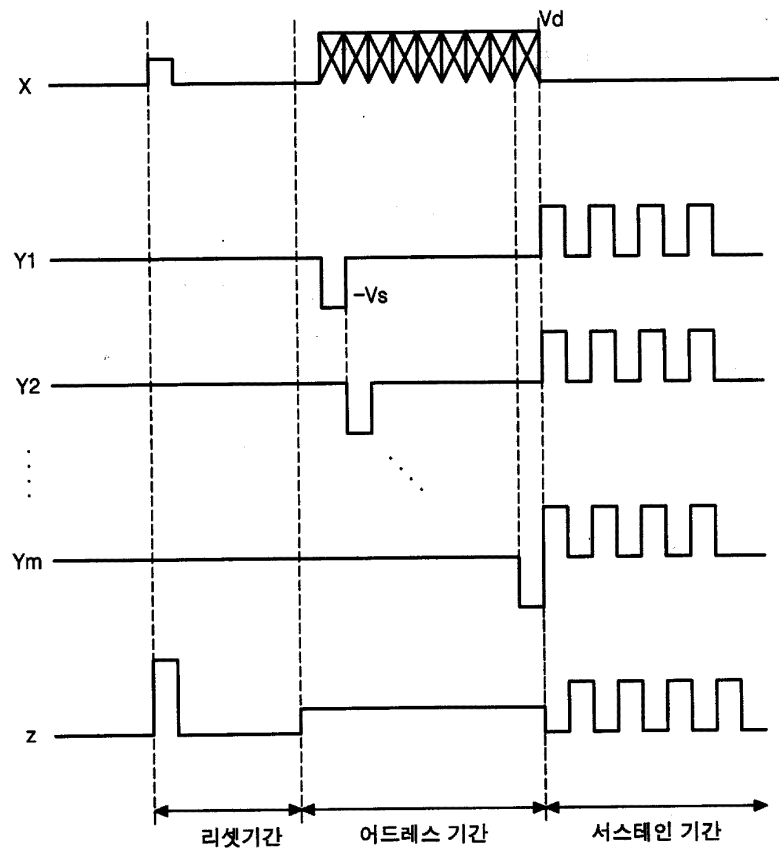
2



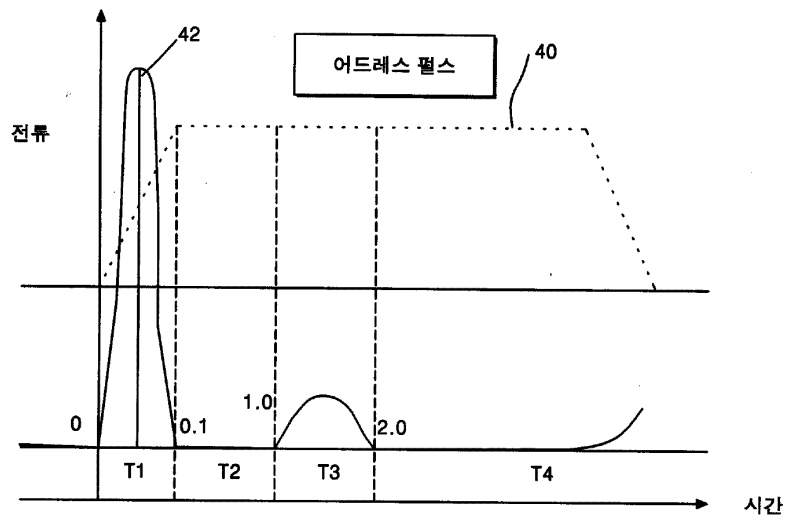
3



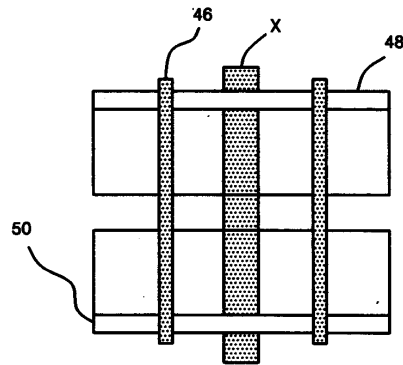
4



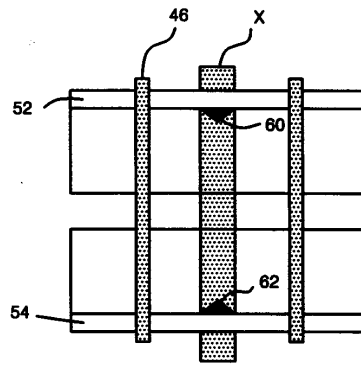
5



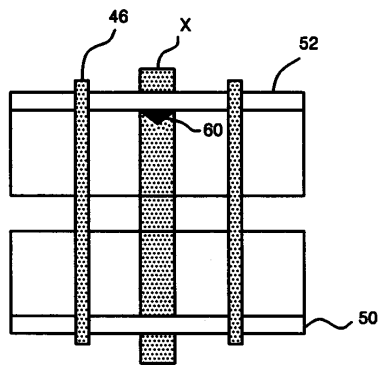
6a



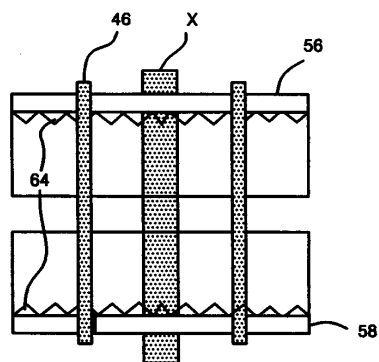
6b



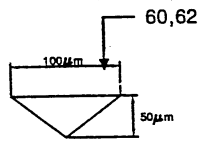
6c



6d

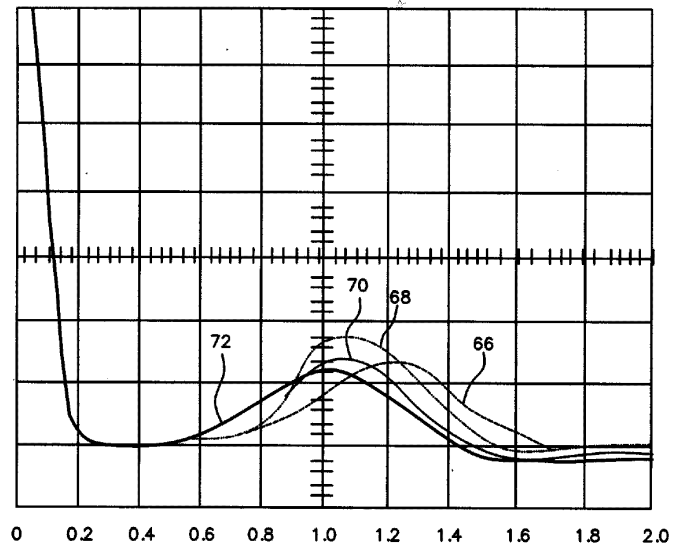


6e

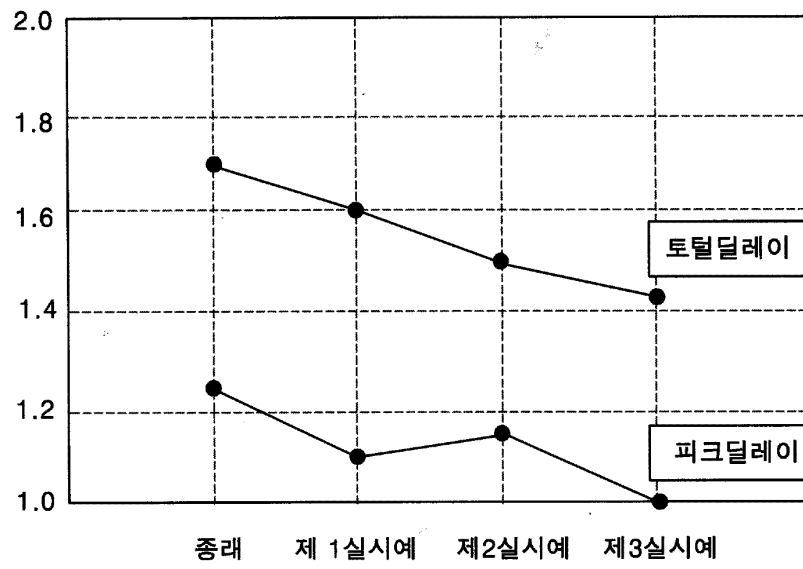


7

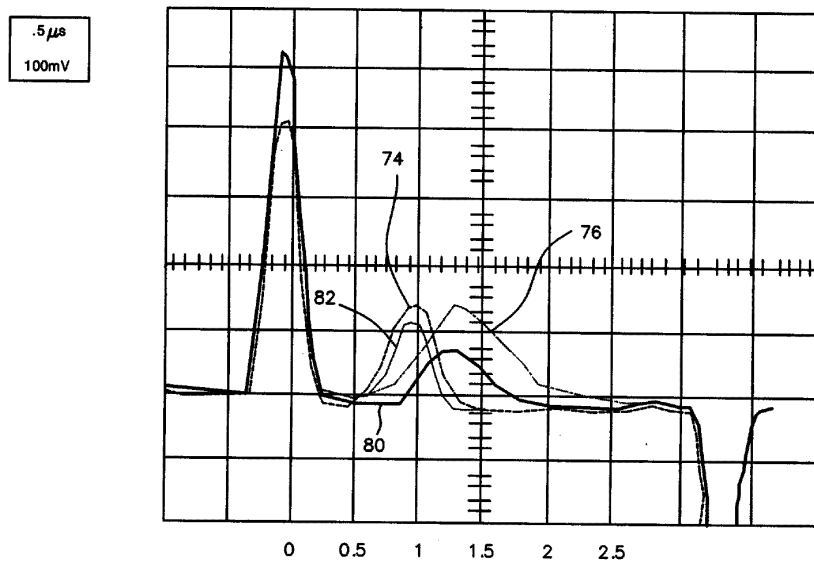
$.2\mu\text{s}$
50mV



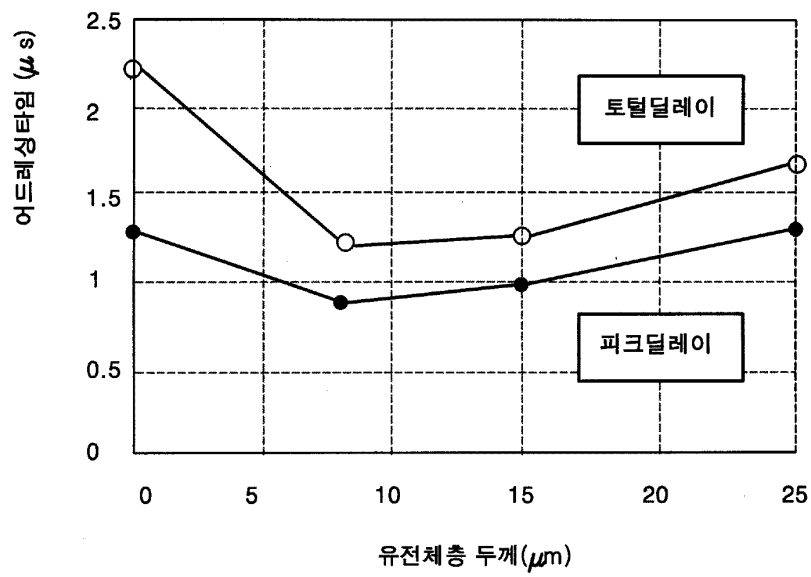
8



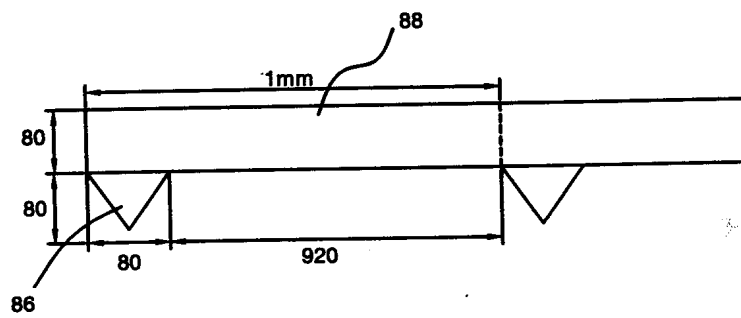
9



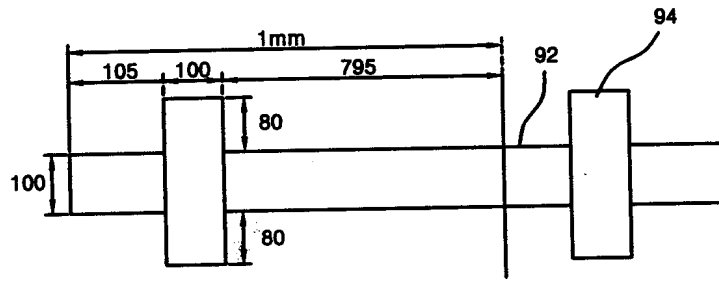
10



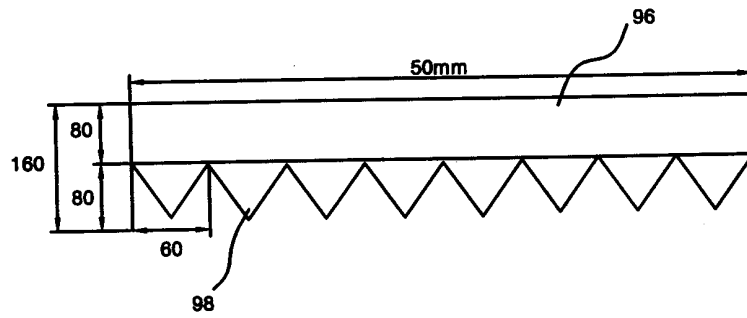
11



12



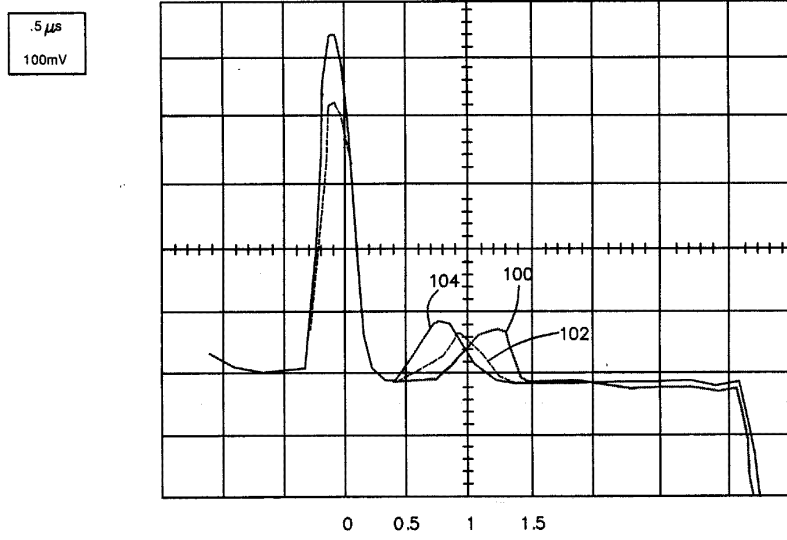
13



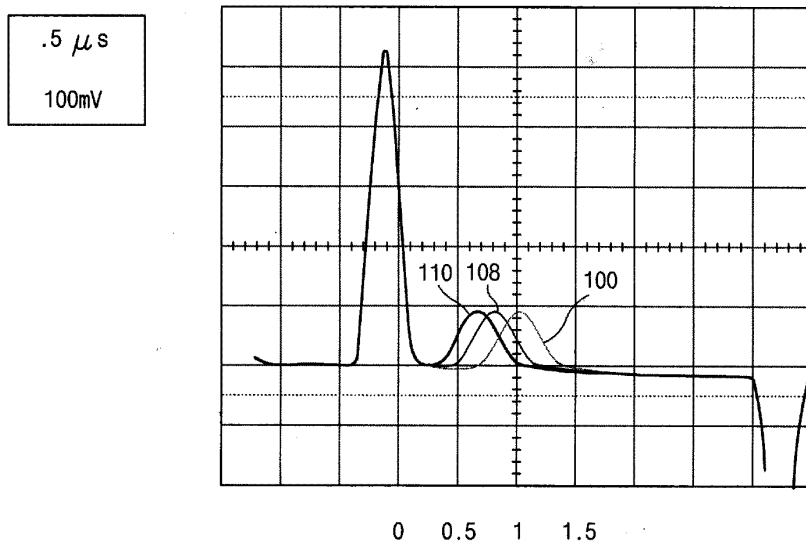
14



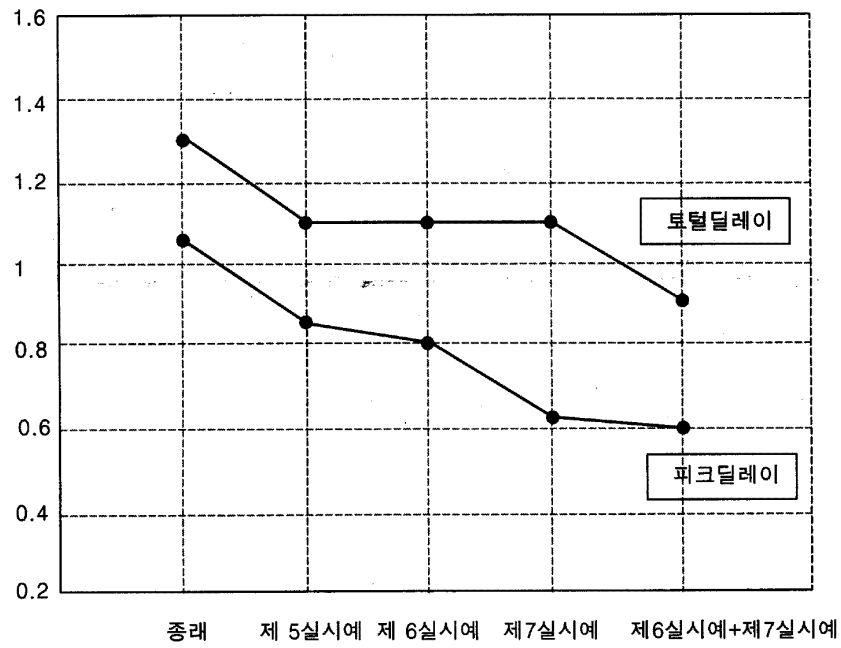
15a



15b



16



17



18

