

(19)
(12)

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2002 03 12

(21) 10 - 1999 - 0063225
(22) 1999 12 28

(65) 2001 - 0060783
(43) 2001 07 07

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216

301

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(54)

가

1 2

가

가 ,

;

가

가

;

1

2

3

ADS

4

5

6

7

8a 8b

<

20 : 22 :

24,80 : 26 :

27 : 28,86 :

30 : 31 :

32,90 : 36,88 :

38 : 40 :

42 : 44,62 : 46,61 :

60 : 64 : /

66 : 68A : 1

68B : 2 83 :

가

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

1 PDP

1 , PDP (20) (22) (20)
 (24) 가 (26) (27)
 (26) (27) ITO(Indium Tin Oxide) (26) (27)
 (30) (30) ITO가
 가 (26) (27) (24) (28) (28)
 (26) (27) (24) (28) (28) (31) (28)
 (28) 2 (34) (26)
 (22) (32) (34) (26)
 (27) (32) (34)
 (36) (20) (22) (42) (42)
 (20) (22) (38) , (38) He+Xe Ne+Xe
 가 가 (36) (42) (40)가 (38) , He+Xe Ne+Xe

PDP 2

2 (X) (Y) (Z) ()
 44) (X)
 (28,36) 가 (26) (34) /
 (26) (27) (26,27)
 (38) 가 가
 (40) 가 PDP

PDP ADS(Addressing Display Separated : 'ADS')

3 PDP ADS . 16.67ms
 8 (SF1 SF8) (SF1 SF8)

2^n (n=0,1,2,3,4,5,6,7) 가

4 PDP

4 , , 가 , ,

(Y) (Z) 가 PDP (Y) (-Vs)가 가
(Vd)가 (X) (X) (Y) (Z)
5μs (Vsus)가 가 (Y) (Z) (Td) 2.
(Z)

PDP
(Td) 2.5μs

(Td) PDP (Td)
가 (Td) 2.5μs PDP (Td)
ur Noise) PDP PDP가 가 8 10 ~ 12 가
가 가 가 PDP 가 16.67ms 30% 가
가 가 가 PDP 가 (Conto)

가 ; 1 2
가 ; 가 가

5 8b

5 PDP

5 , PDP $m \times n$ (62)
 (Y1 Ym), (Z1 Zm) (X1 Xn)
 PDP(60) , PDP(60) (61) , (DF1 DFn DS1 DSn)
 , (Y1 Ym) / (64) , (Z1 Zm)
 , (66) , (X1 Xn)
 1 2 (68A,68B) , (DF1 DFn DS1 DSn)
 (70) (64) (Y1 Ym)
 (62) (62)
 (62) (66) (Z1 Zm) $m \times n$
 (68A,68B) (62) (X1 Xn) 1 2
 (68A) (X1,...,Xn-1) , 2
 (68B) (X2,...,Xn) (70)
 (DF1 DFn DS1 DSn) 가
 (DF1 DFn DS1 DSn) (62)

6 PDP PDP

6 , 가 , 가 ,
 (Y) (Z) 가 (70) 가
 (DF1 DS1) (DF1 DS1)
 7 (62) PD
 P (Vd) (X) (Y) (- Vs) 가 , (Vd) (- Vs)가
 (Va) (Y) (Y) (Pos
 itive) (Va)가 8a (86) (83) (86) (83)
 (Z) (Negative) (- Vs)가 (Y) (Y) (- V
 s)가 8b (Vd)가 (X) (Y)
 , (86) (83) (Td) (Td) 1 μ s 가
 (Td) (Vd)
 (Vsus)가 가 (Y) (Z)

(Z)

가 , 10 가 가

(57)

1.

1 2 가 ;
 1 2 가 ;
 가 ; 가 ,
 가

2.

1 ,
 1 2

3.

1 ,
 가 ,
 가 가 가

4.

5.

6.

7.

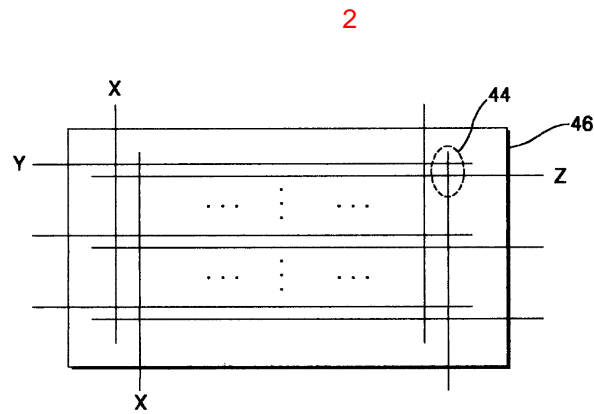
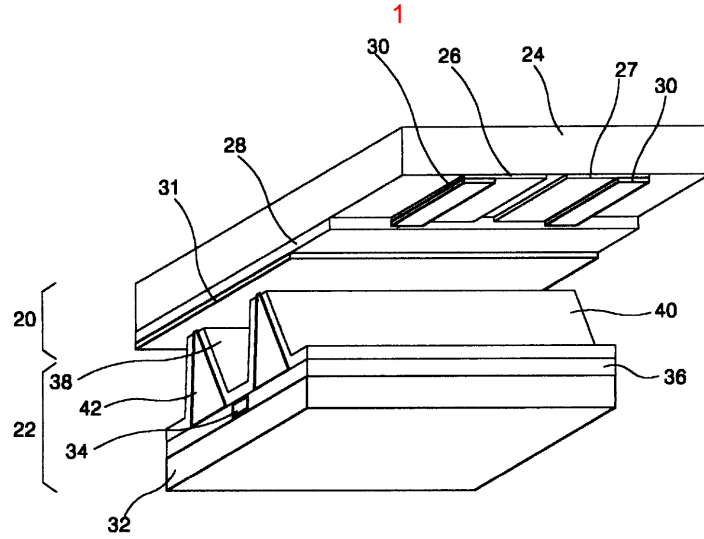
8.

9.

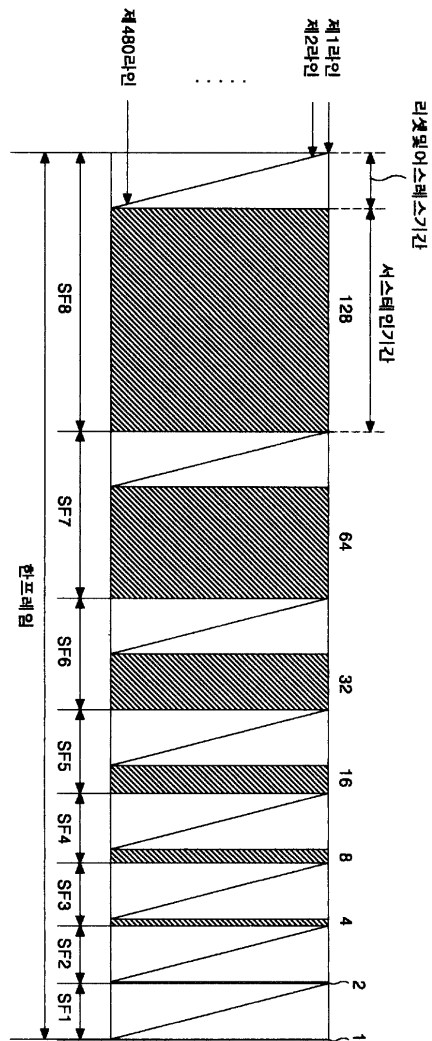
10.

11.

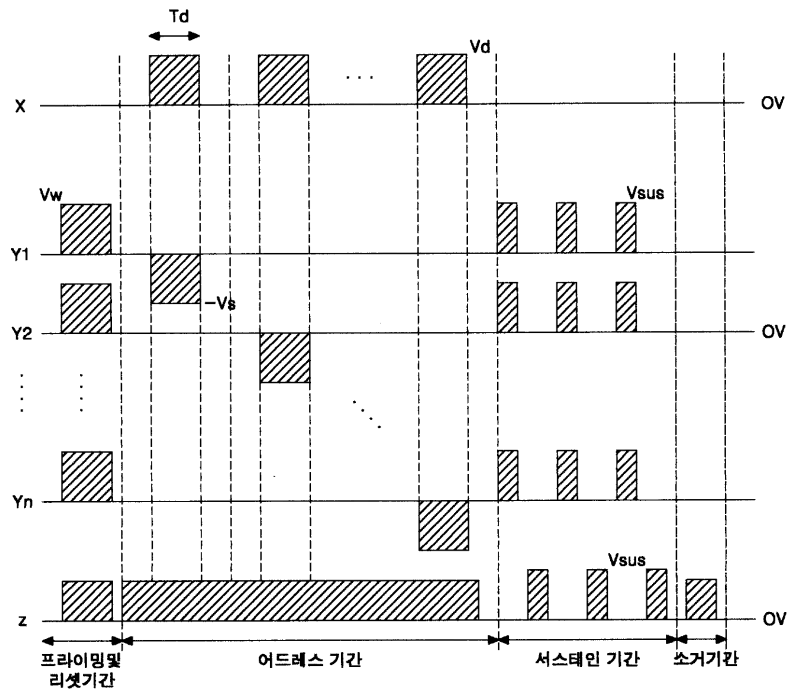
12.

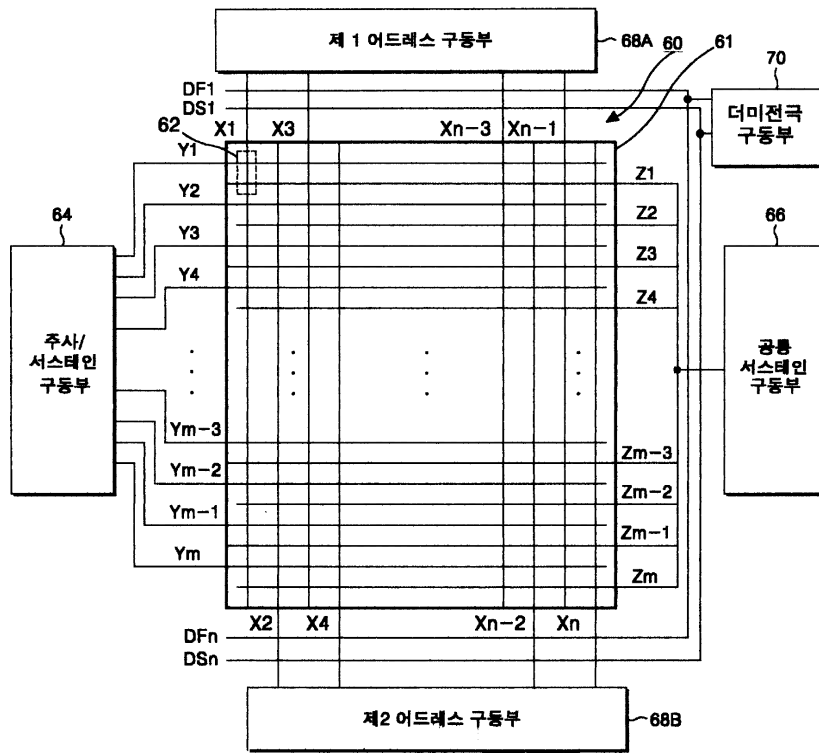


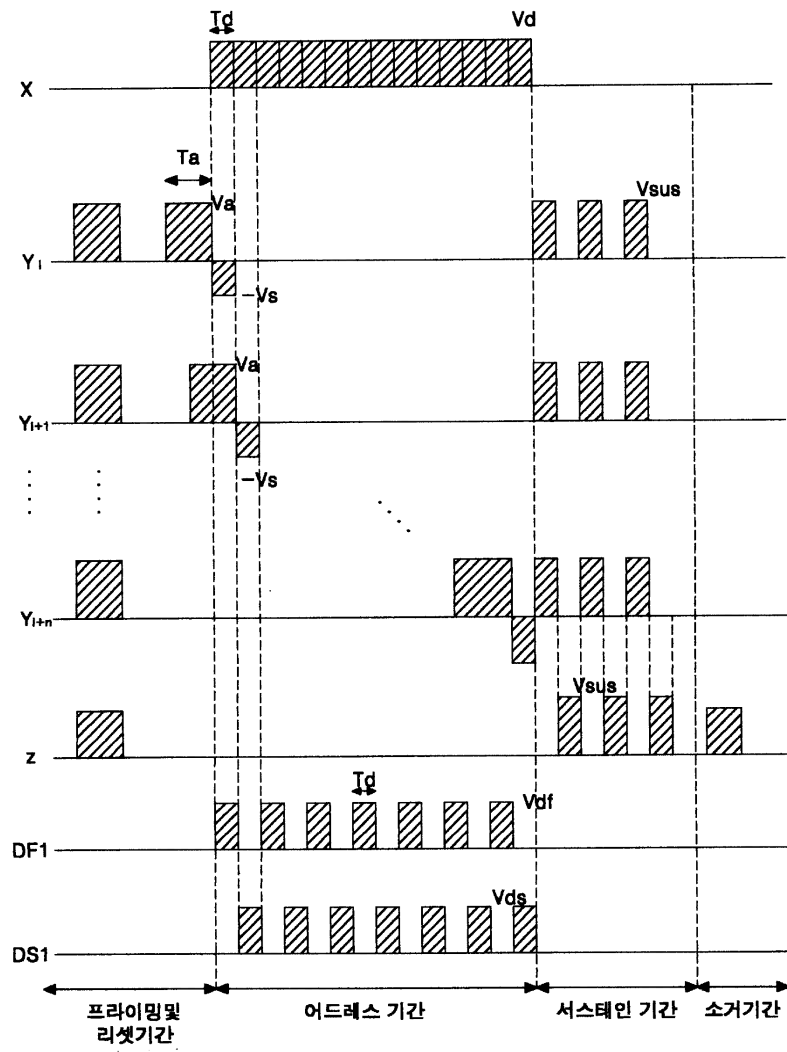
3



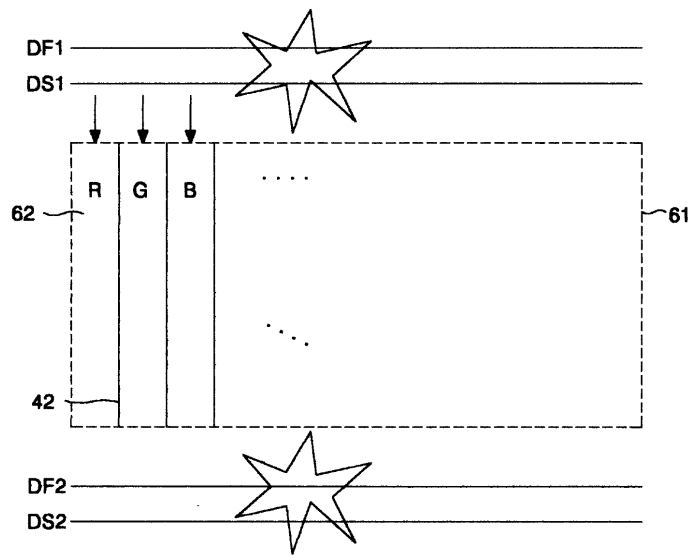
4



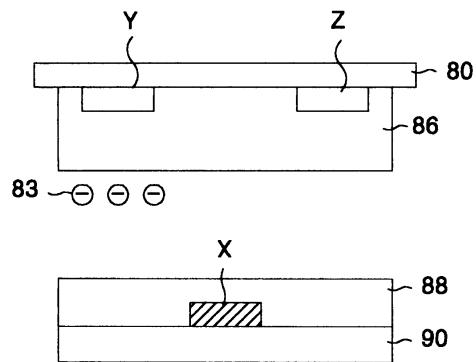




7



8a



8b

