

(19)
(12)

(KR)
(A)

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(11)
(43)

2003-0076280
2003 09 26

(21) 10-2003-0014411
(22) 2003 03 07

(30) JP-P-2002-00077497 2002 03 20

(71)	가	가		
			가	4 6
	가	가		

(72) 가 가 3-8-15

1-16-26

611

가 가 1805-24

3234

(74)

(54)

(N-2)) . . . N + M . N M (M-N 1 N
, N 가 M . 가

```

1 , , , ,
2 ( ) ( ) ( )
3 ( ) .
4 1 .
5 (4) .
ite) (Read Out) (Wr
6 )
7 ( ) 6 )
8 (2 m, m+1, m+2... (G1, G2, G3,...)
(m, m+1, m+2...) B)
9 .
10 .

< >
100 : ( )
101 : (TFT )
102 :
103 :
104 : ( )
105 :

```

120 :

121 : (, , ,)

106 :

107:

CL3 :

(Switching Element)
(Electro Luminescence-type)
e)
ocess)

(Light Emitting Diode)
(Active Matrix-type Display
(Blanki

(Hold-type Display Device)

(11)

9 , (EL) (LC) (PX) (CT)
 (Carrier) }

가 . , (1 2) 1 ()
가 . , 1 ()
) 가 2 (Hysteresis)
7-044670 , 05-073005 , 11-109921 , 2001-166280 , 06-016223 , 0
가 , 11-109921 ()
enon) 11-109921 (Blurring Phenom
Pixels Array, 2) () 2 ,

2
(Dual Scanning Operation) .
(Blanking Image,) ,
, 1

, 11-109921 , 2 ,
, 2
, 2
() (interpolate) . , 1

$$2001 - 166280 \quad \begin{matrix} 1 \\ (10 \\ L1, L2, Lj, Lj + 1, \dots \\ (tg) \\ tb \\ , \\ (G1) \\ (Gj) \\ . \end{matrix}, \quad \begin{matrix} \{ \\ (G1) \\ (10 \\ tb \\ B) \\ tg - tb \\ 1 \\)가 \\)가 \end{matrix}$$

11-109921 2001-166280
2 1 ,

, 1
가

(102) . , 11-109921
2

2001-166280
11-109921 . , 10 . 1
가

01 Digest(The 2001 International Symposium of the Society for Information Display), pages 994-997

$$2001-166280 \quad , \quad \text{tg} \quad , \quad \text{tb} \quad , \quad \text{tg/2} \quad , \quad \text{tb} \quad , \quad (\text{G1}) \quad , \quad (\text{G2}) \quad , \quad (G_j, G_j + 2, 1)$$

가 1 가 1 . .

, , , 1
 , N) Y (Y < N/M) (M) N
 N Z (Z < N/M) Y x N 1
 Z x M 1 . Y x N 1
 Z x M 1 . Y x N 1
 . .
) Z x M 1 . Y x N 1
)
 , 1 , 1 1 Y
 2 1 . 1 (1 Y
) , 1 , 1 (1 Y
 , 2 , 1 , 1 1 Y
 2 1 (1 2) 1
 , 2 , 1 , 1 1 Y
 (a) 1 , (b) 1
 (c) , (d)

(1) 1 .

(2)
$$\left(\begin{array}{c} (2A) \\ N (N 2 , 2B)^1 \\ (M (M N))^1 , (2B) \end{array} \right)^1$$

(3)
$$\begin{array}{ccccc} , (3A) & 1 & & & Y (Y N/M \\ 2 & & 2 & & 1 Z (Z N/M \\ 2 & & 1 & & , (3B) \\) & & (Y \times N) & &) \\ 2 & & 2 & & 2 \end{array}$$

(2A) (3A) (2B) (3B)

< 1 >

1 1 7
 (Active Matix-type Liquid Crystal Display Panel) (Pixels-Array)
 (Electroluminescence Array) , (Light Emitting Diode Array) (E)

(Vertical Synchronizing Signal)(VSYNC),
 (Dot Clock Signal)(DOTCLK)
 (100) 1
 (104))
 , 1
 (Line Data)
)
 ,
 ,
 ,
 (120) (121) (Cathode Ray Tube)
 (Dead Time)
 (Retracing Period)
 (120) (掃引)
 (120) (DTMG)
 ,
 ,
 (101) (100) (100) , (102) 1
 (101) (103) (10) ,
 ,
 ,
 (101) (100) (104) {1 (105) 1
 (101) (104) (102) (CL1) 1 (105) ,
 (105) (107) (104) (102) (101) (105) (捻出)
 5) ,
 ,
 (101) (104) (105) (VSYNC) () ()
 ,
 ,
 (104) (L1, L2, L3,...) (105) (105) (104) (HSYNC) (1)
 (104) (105) (105) (104) (CL1)
 ,
 ,
 (104) (105) (105) (L1, L2, L3,...) (105) (L1, L2, L3,...)
 ,
 ,
 (104) (105) (105) (N) (N) 2 (105) (105) (N)
) (105) M (M N (105) ,
 , M (101)
 ,
 ,
 (105) (2) (102) (104) 가 30Hz
 (105) (105) (105) 1 (102) (104) (105) (10)
 ,
 ,
 ,
 (104) (100)
 ,
 ,
 (105) (100) (100) (104) N
 5)

4

, (114) ()
 . 4 3 (103) (DISP1, DISP2, DISP3) (114-1, 114-2, 114-3) (103-1, 103-2, 103-3) (114)
 Low-level
 High-level (114-1) (DISP1) 1 (103-1)
 .
 , (L513 L516) 가 High-level 4 (G1 G7)
 (DISP1)
 가 ()
 (L513 L516) 4 (L517 L520) (DISP1) Low-level 4
 (B) (G5 G8) (B) , 4
 .
 (103) 4 () 1 2 , (114) (114)
 (103) (103) (103)()
 (FLM) (G1) (DISP1) 4 (103) ()
 FLM) 2 (4 (103)) 1 4 (FLM) 1 (FL
 M) 2 1 (FLM) 1 (FL
 2 가 (FLM) 1
 1 4 (114) (114) , 3 (101) 1
 (101) (103) (103) 3 3 (103-1, 103-2,
 103-3)
 6 { (G1) } 3
 (FLM) 1 : t1
 (FLM) 2 (FLM) 2 : t2
 (FLM) 2 : t2 : t1' : t1
 6 : t1' : t1 : t2' : t2
 1 , 4) 가 , ()
 , : t1) ()
 : t2) ()
 () 가 1 , 6
 67% 33% (FLM) (FLM) () t1 t2 ()
 .
 6 3 (101) WXGA 가 7

, 7 , () 1 가
 , 7 , ()
 , () , 2

, 1 1 , 2
 4 , 1 : N(: M 1 : Y 1
 1 , 2 () 가 가 : Z 4
 , 2 1 N, M M<N N 2 , N
 , Y N/M M , 1 Z N/M N 가
 M , N (N + M) (CL1)
 , N (HSYNC)

, N 1 가 2 (Tin) 1
 (102) (N + M) , 1
 , , 1
 , Tinvention) , (Tin) N 1
 (, Tprior) (N/(N + M))
 , , ,
 , (Tinvention) M N 1
 , Tprior 1/2 2001-166280

SID 01 Digest, pages 994-997

, (Tinvention) , , 1
 , SID 01 Digest, pages 994-997

, (N + M) , , 1
 , Z
 Z 가 , , (102) , 1
 , , 1 7 N 4, M 1, Y 4
 , ,
 1 { , , (HSYNC) Y 2 가 } . ((N + M)/N) (1 4
 1.25) (CL1) , (CL1) (104) 가 , (CL1)
 , N 4 M 1 , Y M
 , Z N

< 2 >

1
가 , 1 ()
,

, 1

(57)

1.

가 1 1 2

1 2 1 ,
1 ,

2 1 1 1 1

2 1 , 1 , 2
2 , ,

2 2 2 ,

2 1 1 2 1 2 ,

1 1 , 1 1 1 Y N 1 Z , 1 2
(Y, N, Z, M M < N Y < N/M Y × N Z),

2 , 1 2 , 1 , 1
2 M N , 2 ,

2.

1 , 1 : M 1 , 2 1 : Y 1 , : Z
1 1 1 1 : N 4

3.

1 , 2 2

4.

1 , 2 2

5.

1 , N . , 1
2

6.

7.

$$6 \quad , \quad 1 \quad , \quad Y \\ 1 \quad Z \quad 1 \quad , \quad 2$$

8.

7 , 1 1 2

9.

7 , 1 Y 2

10.

7 , 2 가 1 1 2

11.

⁷ See also the discussion of the relationship between the two concepts in the section on “The Concept of ‘Cultural Capital’” above.

10

12.
6 , ,

13

13. 1 2

,

1

,

1

N 2) 1 , N (

M (M¹ N) 2 ,

,

1 Y (Y N/M
2 1 ,)

2) 1 (Y x N 2 Z (Z N/M

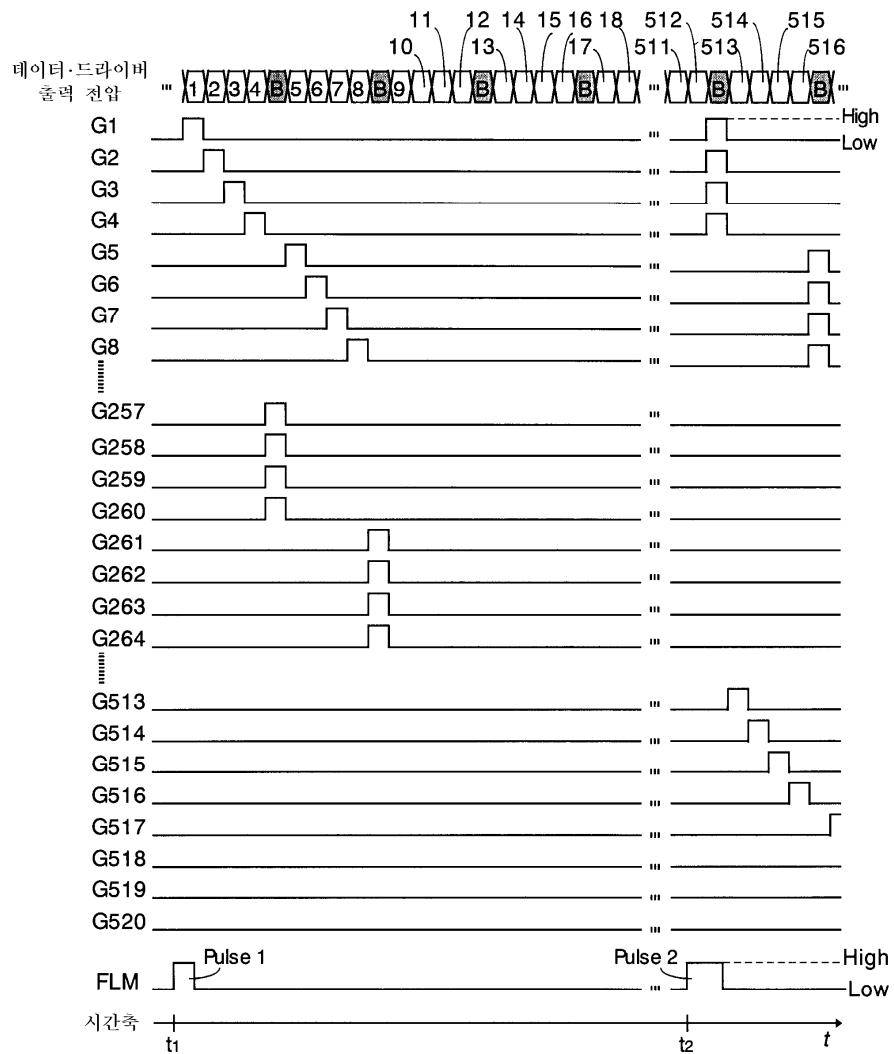
.

14.

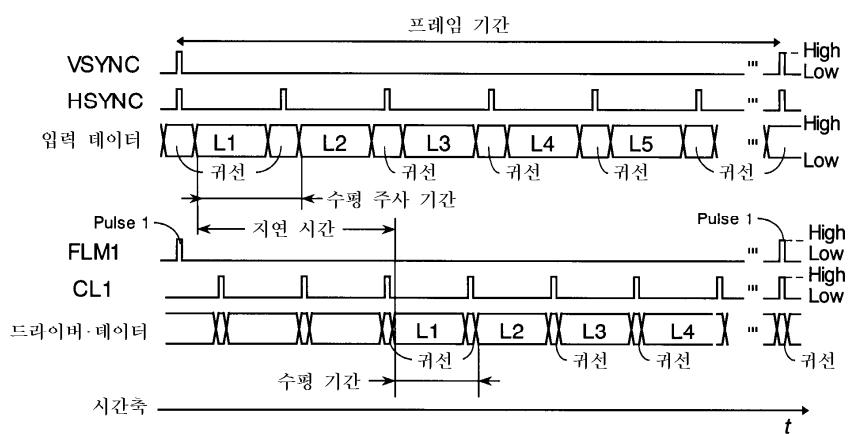
13 , 1 : Y 1 1 , 1 1 : N 4 1 , 2 : Z 4

, 2 : N 1 .

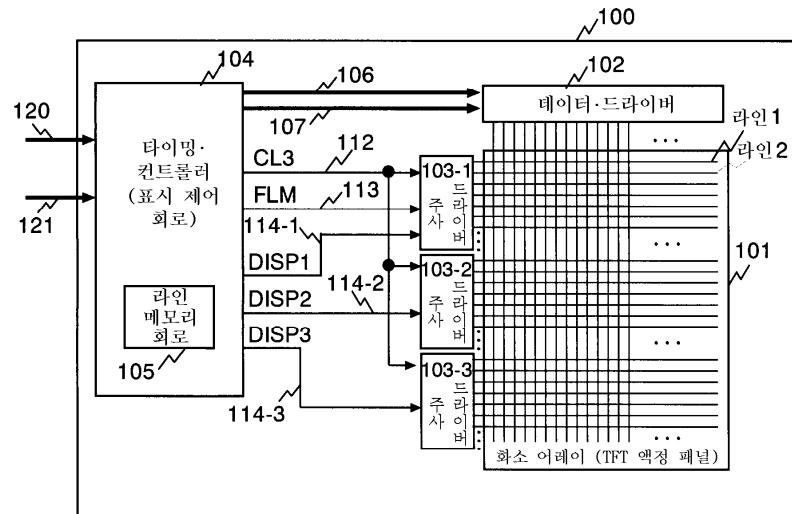
1



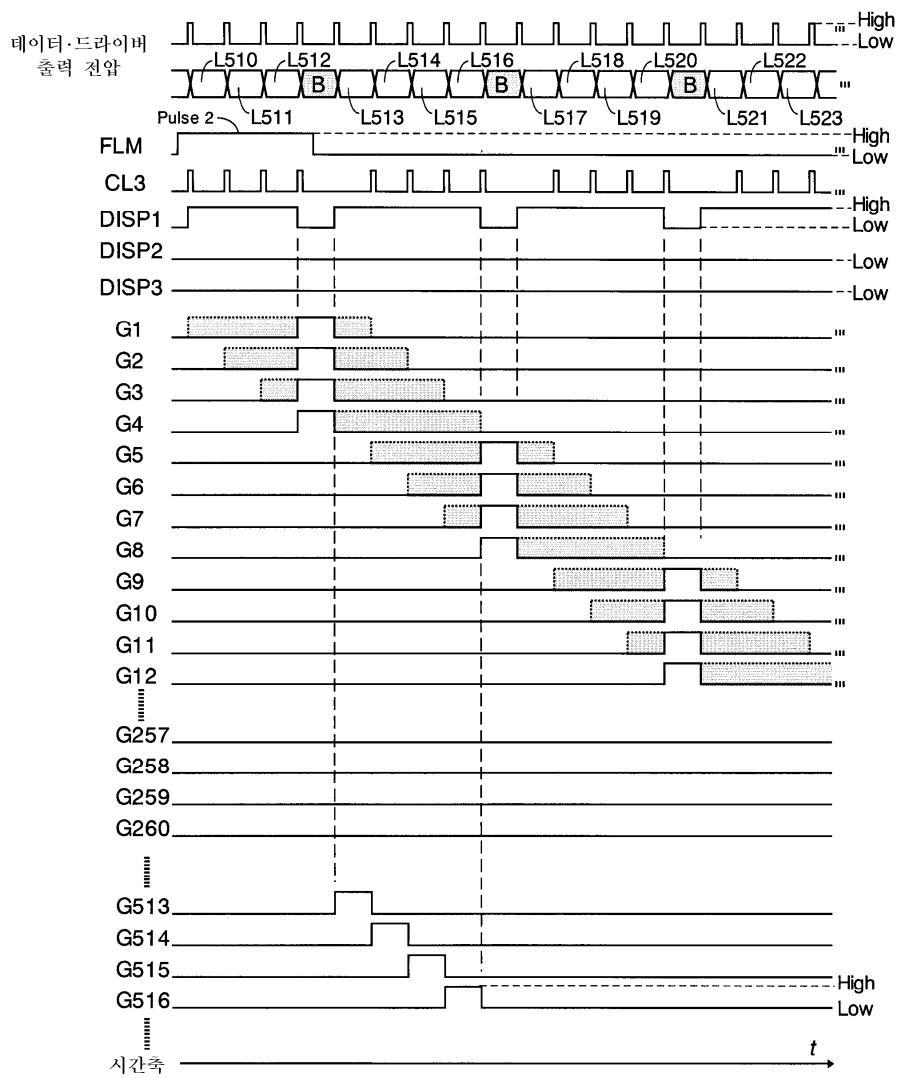
2



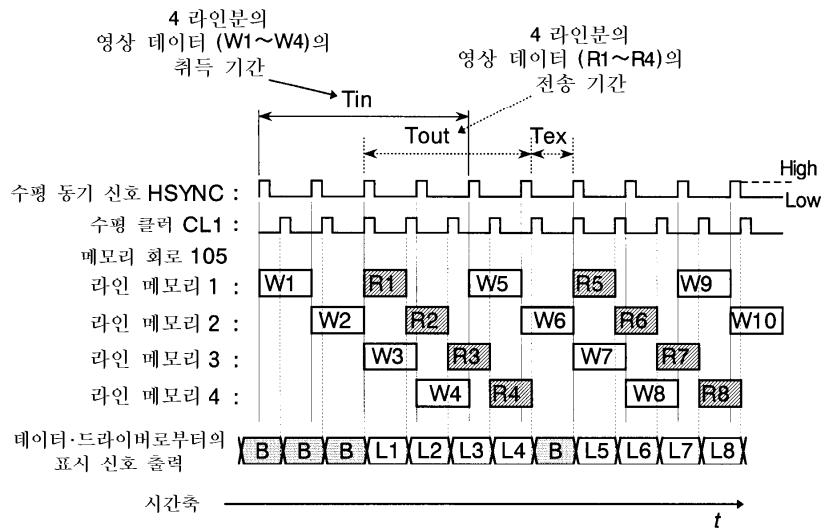
3



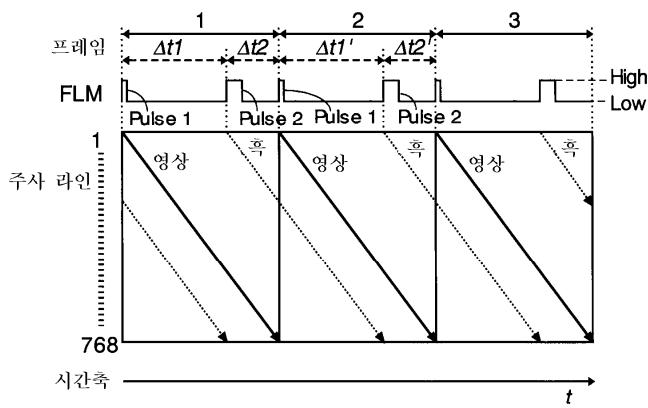
4



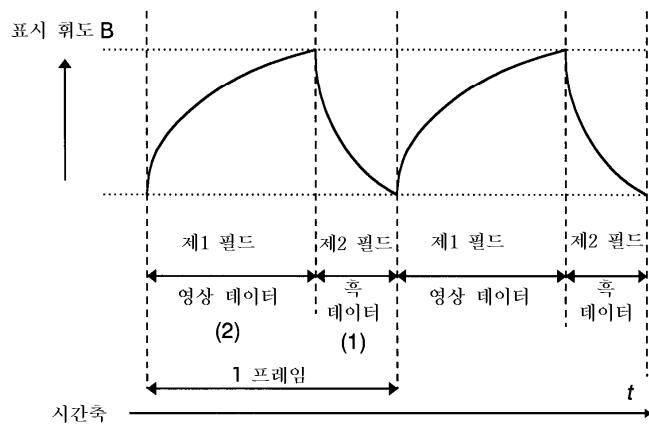
5

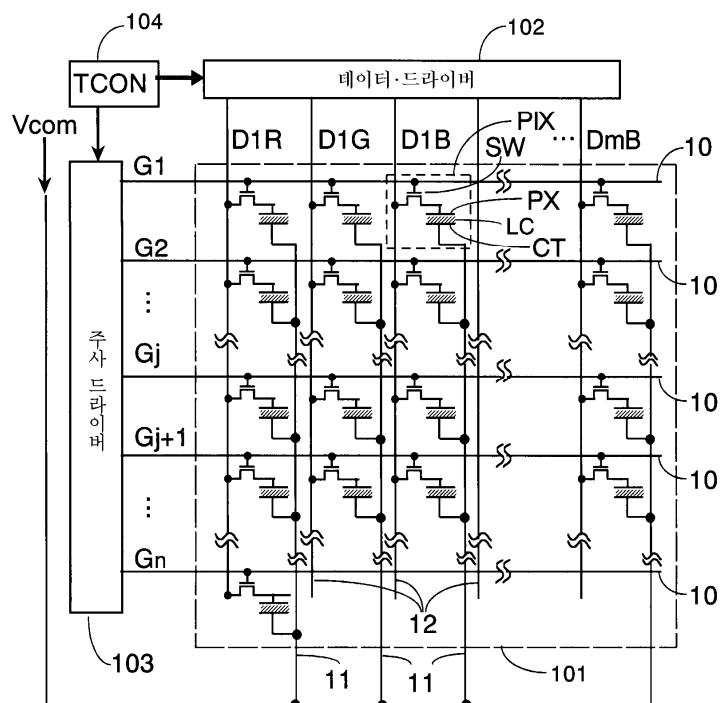
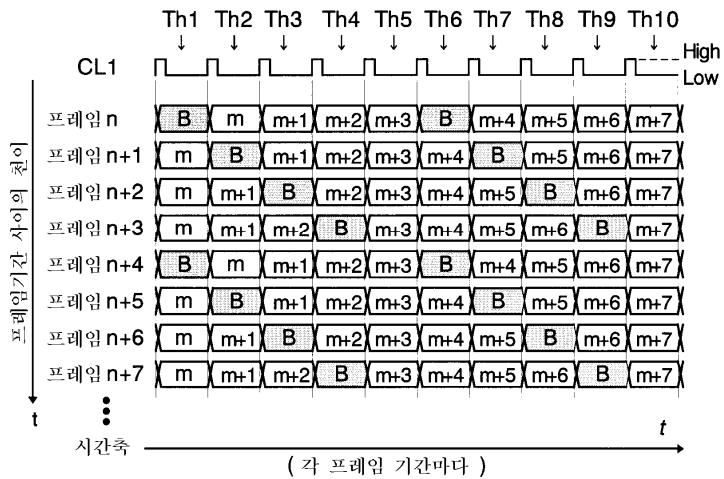


6

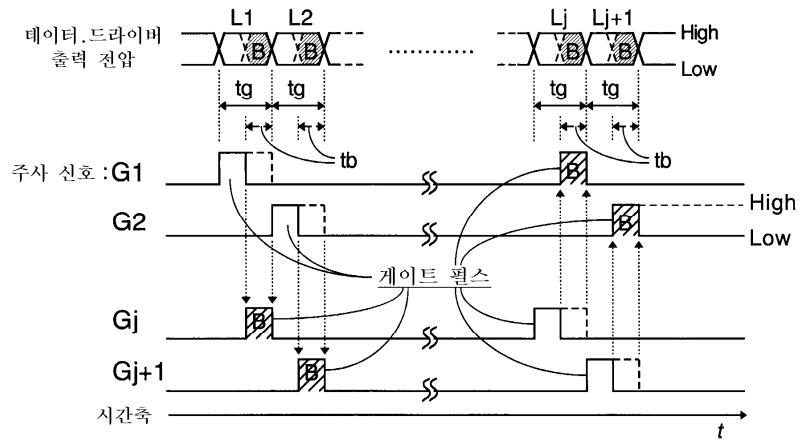


7





10



专利名称(译)	显示装置及其驱动方法		
公开(公告)号	KR1020030076280A	公开(公告)日	2003-09-26
申请号	KR1020030014411	申请日	2003-03-07
[标]申请(专利权)人(译)	日立HITACHI SEISAKUSHODBA 日立器件工程株式会社		
申请(专利权)人(译)	株式会社日立制作所 地伤装置工程可否让这个夏		
当前申请(专利权)人(译)	株式会社日立制作所 地伤装置工程可否让这个夏		
[标]发明人	NITSUTA HIROYUKI 니쓰따히로유끼 KOGANEZAWA NOBUYUKI 고가네자와노부유끼 TAKEDA NOBUHIRO 다께다노부히로 FURUHASHI TSUTOMU 후루하시쯔또무 NAKAMURA MASASHI 나까무라마사시		
发明人	니쓰따히로유끼 고가네자와노부유끼 다께다노부히로 후루하시쯔또무 나까무라마사시		
IPC分类号	G09G3/36 H04N5/66 G02F1/133 G09G3/20		
CPC分类号	G09G2310/061 G09G3/3648 G09G2310/0205 G09G2320/0261		
代理人(译)	CHU , 晟敏		
优先权	2002077497 2002-03-20 JP		
其他公开文献	KR100581625B1		
外部链接	Espacenet		

摘要(译)

由于在包括液晶显示器等的支架型显示装置的动画指示操作中产生的运动图像模糊导致的图像劣化受到控制，同时不会损害运动图像的指示亮度。写入消隐的操作·数据在响应水平同步信号时降低像素阵列的亮度，并且在1行N时间内将1行输入到显示装置的像素阵列中的视频数据写入（N是大于2的自然数）连续M次（M是小于N的自然数）连续重复。它比N + M会议数据写入像素阵列的时间短，为行的N部分分配视频数据的水平扫描周期，也就是数据写入水平包含的像素阵列的水平消隐间隔。扫描视频数据的周期并执行。此外，通过公开每个像素行的选择操作的扫描开始，调整其中填充了N个视频数据的像素行的像素阵列内的间隙和填充M满足消隐数据的像素行。像素阵列，驱动电路，信号线，信号。

