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2002 - 0062601
2002 07 26

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2001 01 22 (US)

(71) , , ,
85281 - 1230, , , 1600

(72) , , .
, 85023 , , , 950
,
, 12018 - 3816 , , , 345
,
, 85202 , , , 5258

(74)

(54)

(LCD) 가

가
 가
 가 ,

1

, 가

1
2 1
3
4 3
5
6
7
8
9
10
11
12
13
14

(LCD), , ,

(LCD) , , ,
LCD 가 , 1 LCD , 2
가 , LCD " " ()
(), (), ()

(DRAM)

가 , , , ()
10 20
가 . ()
) ITO
가 , " (twist) " "
(untwist)" ()
") 가 (") ("
DRAM
가 , , , ,

가 가 , LCD, 가
LCD LCD 가

LCD 가 . , 가 .

(LCoS) LCoS

60 " (disclination)" 가

```

A(8)      DAC      00h      )      ,      ,      (      )      D(8)      DAC      FFh
      )      .      .      )      .      .      )      .      .
      }

```

, C B B
 $(00_h < B < C)$. , C D 가
 , B k (가) . , k, B, C 가
 . LCD
 . 3 (RGB) LCD RGB LCD 3

, () 가 ,

가
 가 2

" (stair stepping)"

가 가 /

(LCD)

(LCD)

1 , ,
 1 , ,
 1 , ,
 , k , ,
 , , , ,
 , , , ,
 , , , ,

(LCD)

1 , ,
 1 , ,
 1 , ,
 , | , N , N , N ,
 , , , , , , ,
 , , , , , , ,
 , , , , , , ,

LCD

(LCD)

/

(DAC)
가

(LCD)

가

가

가

1 , , (3;108) (108) (84) (82) 84)	(LCD) (108) ,	가 ,	LCD ,	(102) "(84)" (82) ITO (84)

2 , 1
 (82) . (88) 가 LCD(102) (84) 가 (84) 가
 (84) (92) (94) LCD(102) (88) (84) (90) , (96) LCD(10
 TO) (94) , (84) (88) (84) (98) ITO (90)
 2) (88) (96) (98) (84) (84) (84)
 . , (84) .
 . (84)

3 , 가 (LCD)
 . LCD (100)
 가 LCD " " " "
 .

M (106) N (104) 3 LCD(100) M × N 가 (108),
 (110) (102) (112) LCD(100) (108)
 . (LUT;114)()
 . (116) (DAC)(120,121,122 123)
 (110) (112)

DAC
 121,122 123 (translation logic;114) , DAC(120,
 . ,

4 , 3 (100) 가 (10) (108aa 108dd(4 × 4)) , (300
 2) 333), (290 293) LCD LCD(100) (108aa 108dd)
 . (108) LCD(100)
 . (114) (114) (114)
 116) DAC(120 123) x - y (-) ,
 . (110) (112)

DAC(120 123) (114) ,

, () () , 가
 . , (0 3) (290 293)가 , DAC(120 123)
 . (108aa 108dd) (178) (300 303)가 , (0
 3) DAC
 .
 . (112) (110) (108aa 108dd) (290 2
 93) (300 333) (108)

5 , 가 DAC(120) 123)
 (304) (304)

, / (310) LCD (302)
 / (310) LCD (302)
 (312) LCD (302)

02) (116) (() LCD
 (3;110) (3;112) (3;112) LCD
 (306) (308) (308)

, / ,

7 , 가 . (610) (716) B) 가 . (D;FF_h) 가 , (716)
0_h) 가 . (610 716) (716 718) (718) (A;0
가

5 , / (310)
 (116) LCD / (302) / (310)
 .
 , C 가 B B B
 (00h < B < C). , (가) k , C D
 , (가) k LCD , , k,
 B C 가 가 . 3가 (, ,) LCD , 3 , RGB LCD
 가 .

8 ,
가 .
가 ,
" " ,
" ,
" 2
(812, 814 818)

가 , 가

10 , 가 . 100
2 . . 1004 . C
C , C 1010 .
, B 1006 .
B , 1012 .
B , k , 1012

11 , . 가 . 8
 1102 . .
 1104 . C
 1110 . C , .
 1106 . B
 1112 . B ,
 , N | . , . 1112 . N 1108 N . 1114 N .

12 , . 가 . 120
 2 C . C 1204 .
 6 . C , . C 1210 .
 1206 . B 1212 . B
 1212 B , . B , .
 1206 . B , . B , .
 12 , 1212 B , . B , .
 12

13 , . 가 . 13
 9 . .
 (312) . (1300)
 (1302) , .
 (1306) , .
 (1306) , . (1306)
 (DAC;1308)

(1320) (1302) (1304)
 (1320) (1302) (1304)
 C(1316) B(1314) (1312) 1 (1312) 2 (1318)
 (1312) C (level writing decision logic;1310) B DAC(1308)
 (1310) 9

14 , 가 . 14
 10 , . 가 ,
 (312) , (1300)
 (1302) , .
 (1306) , k
 (1306) , (1306)
 (DAC)

(1320) (1302) (1304)
 (1320) (1312) 1 (1318)
 C(1316) B(1314) (1312) 2
 (1312) C DAC(1308)
 (1310) 10 (1310)

LCD / LCD

가

가

(57)

1.

(LCD)

(DAC);

DAC

;

;

LCD

;

LCD

/

,

,

,

가

,

가

/

DAC

,

2.

1 , LCD

3.

1 , LCD

4.

1 , /

5.

1 , /

,

6.

5 , / LCD

7.

6 , LCD

8.

1 , / DAC

9.

1 , LCD,

10.

1 , LCD, , , ,

11.

1 , , / DAC

12.

(LCD) ,

1

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1

,

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1

, 2

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2

, k

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2

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13.

12 ,

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LCD

14.

12 , LCD

15.

(LCD)

1

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1

,

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1

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2

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2

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k

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2

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16.

(LCD)

1

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1

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1

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2

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2

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N

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N

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N

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I

2

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17.

12

,

18.

12

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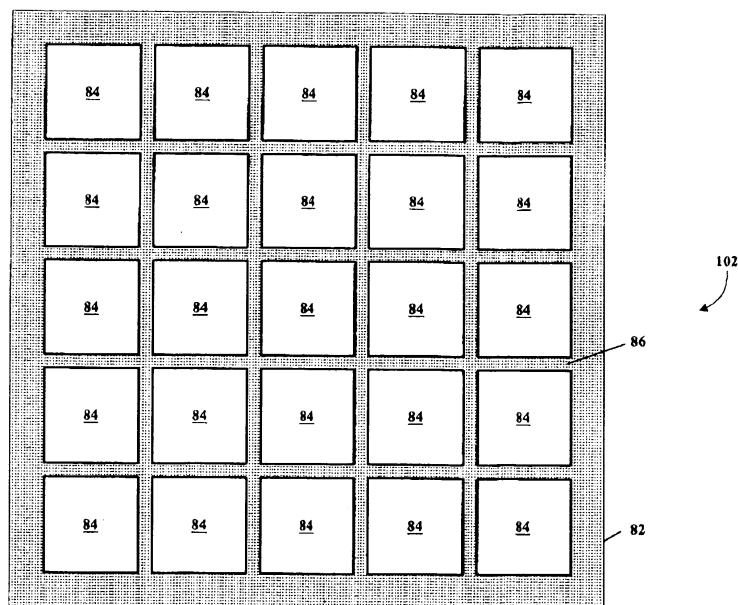
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15 ,

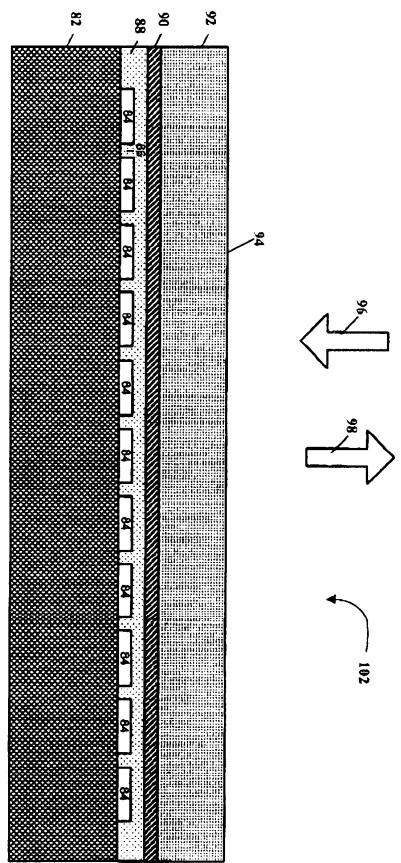
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15 ,

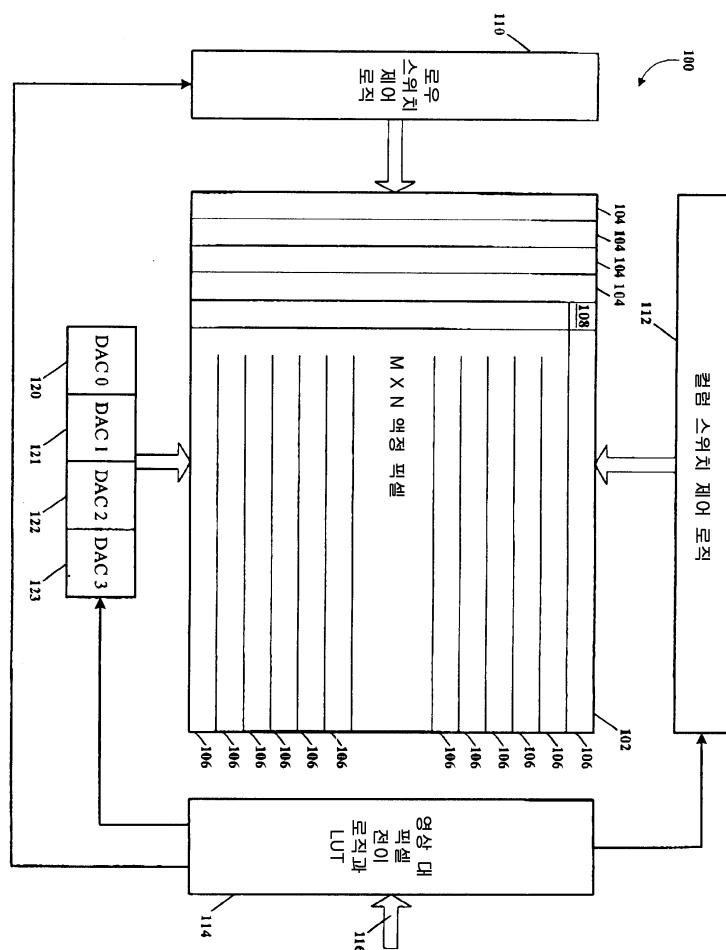
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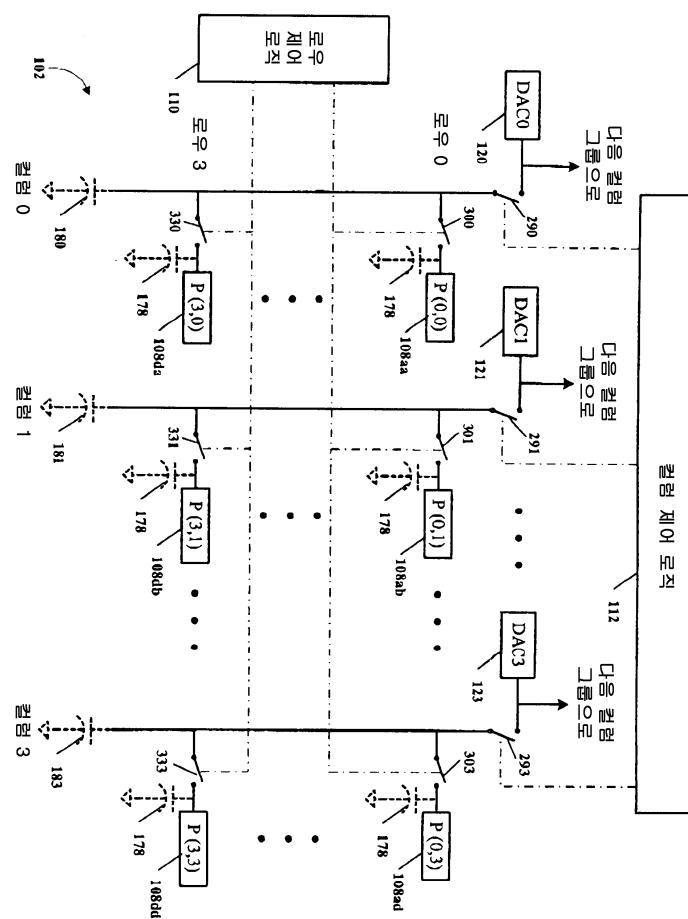


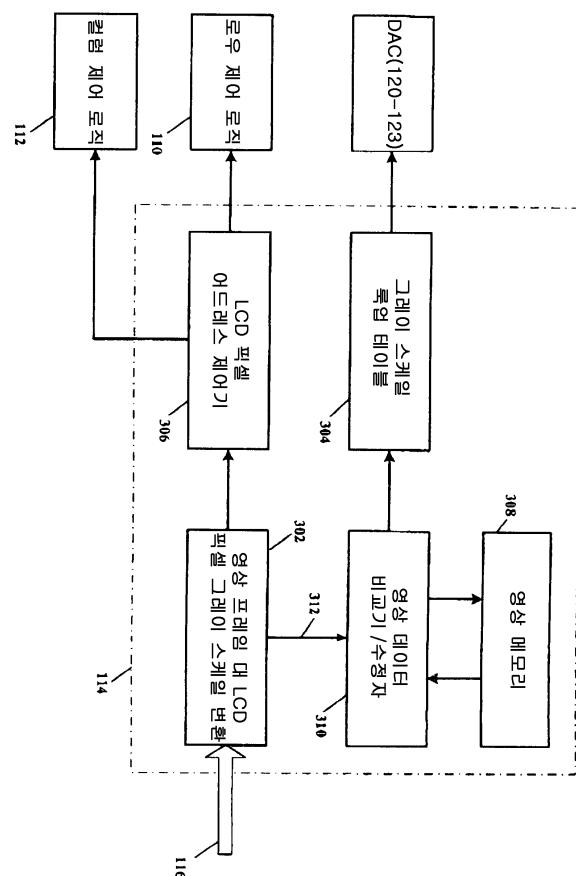
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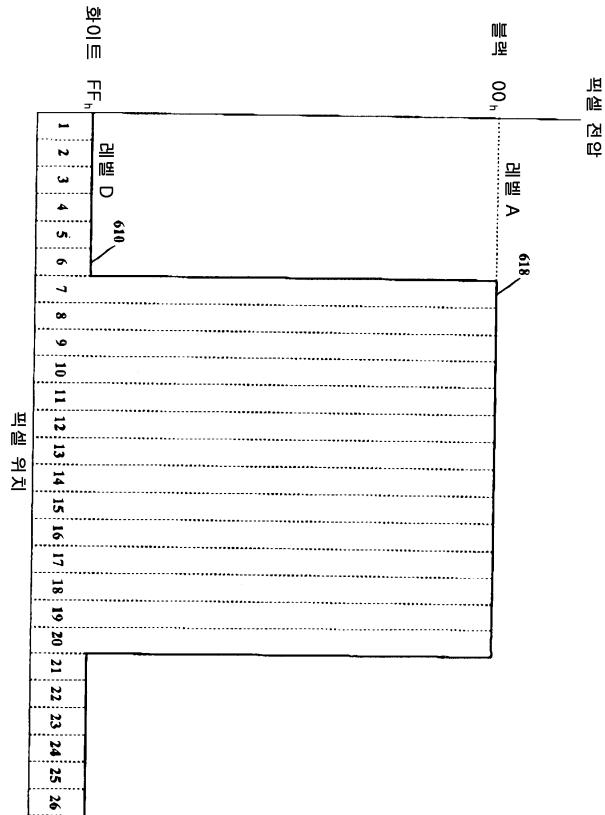
3



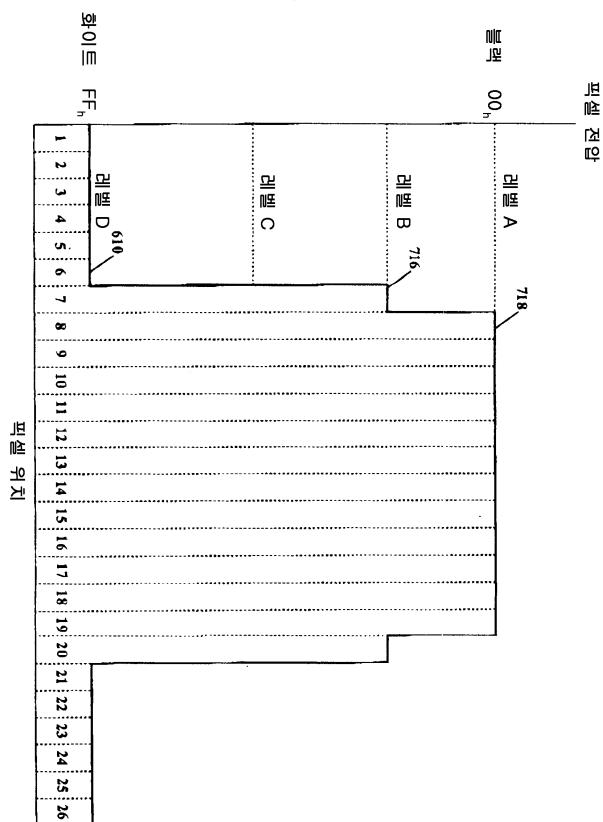




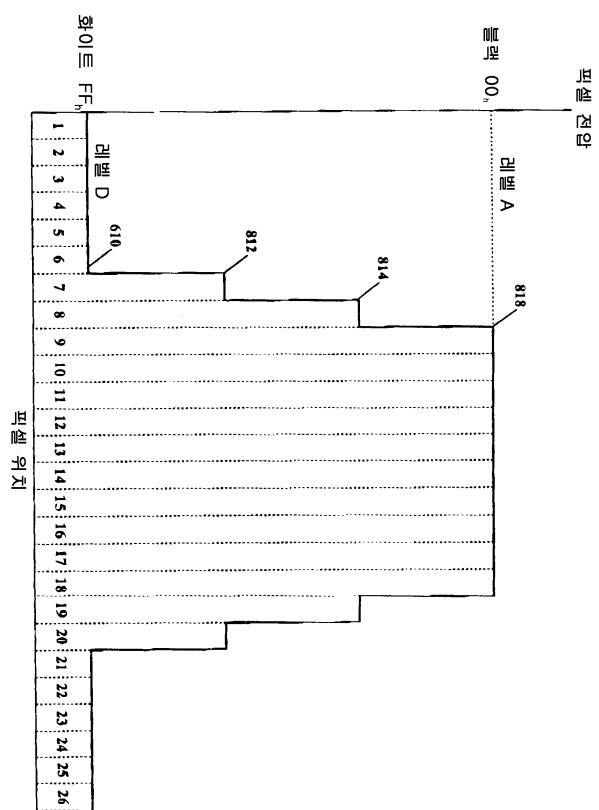
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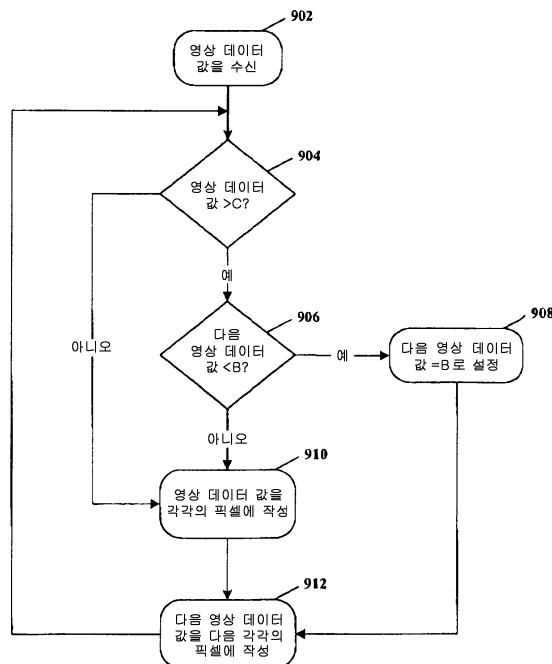


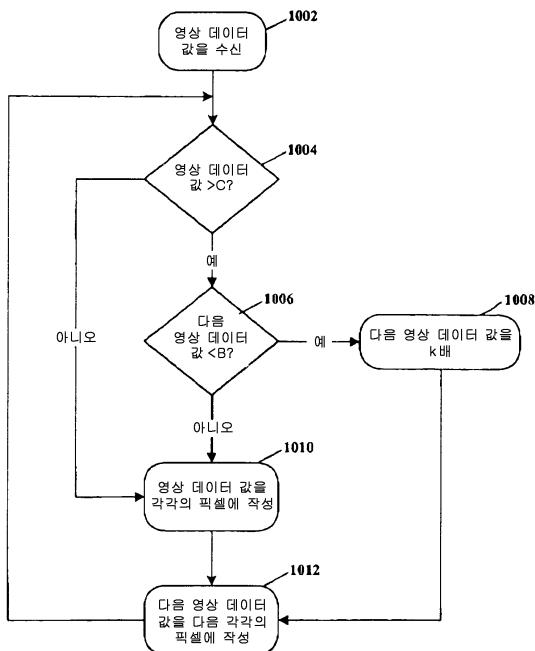
7

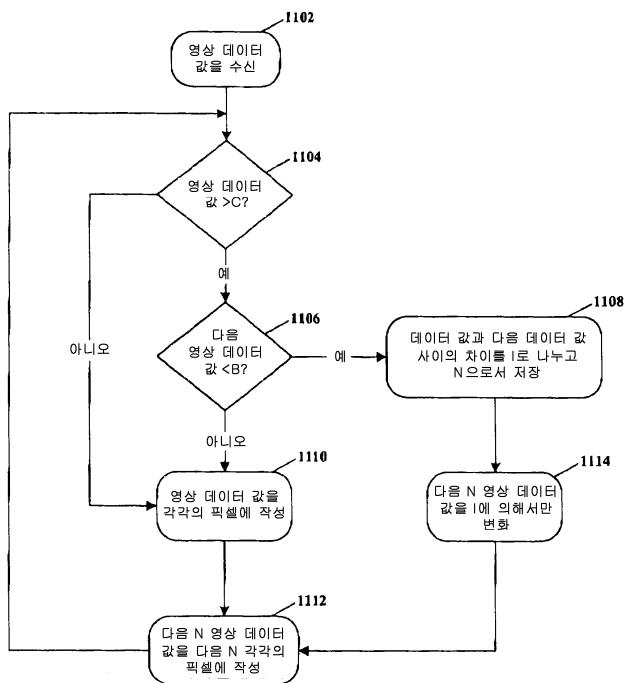


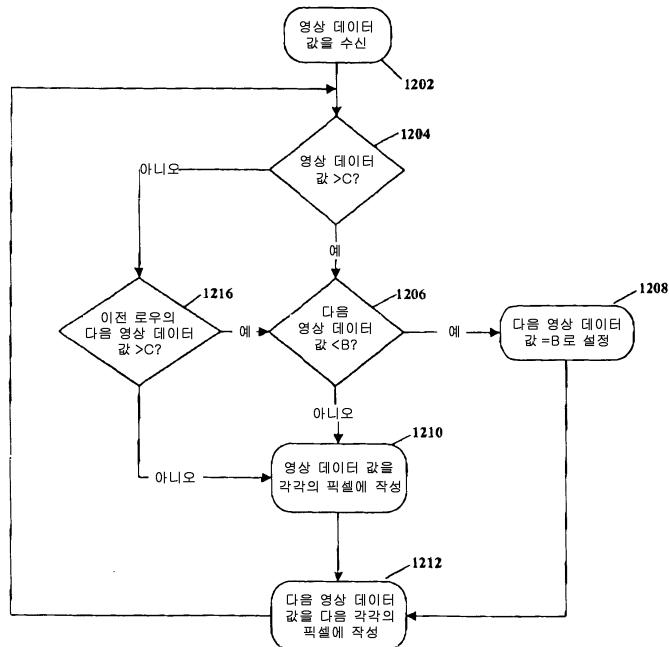
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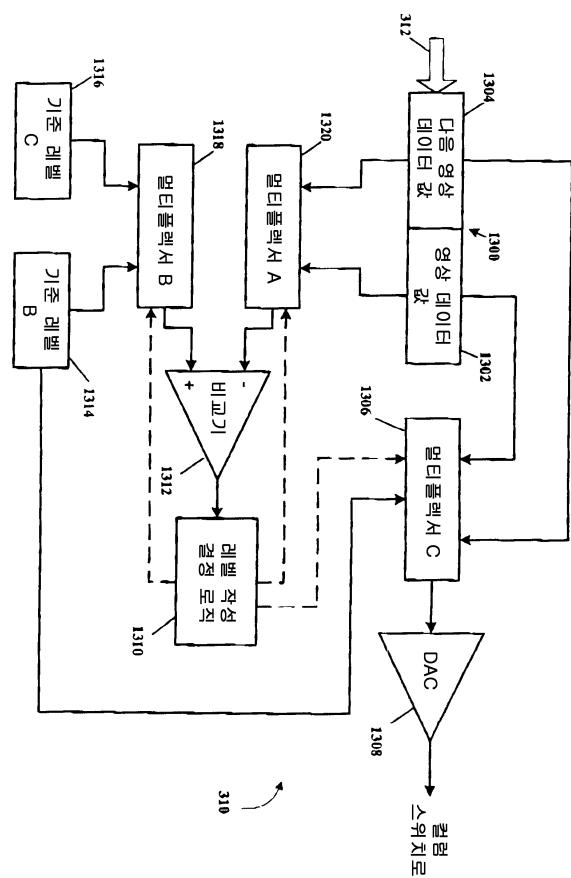


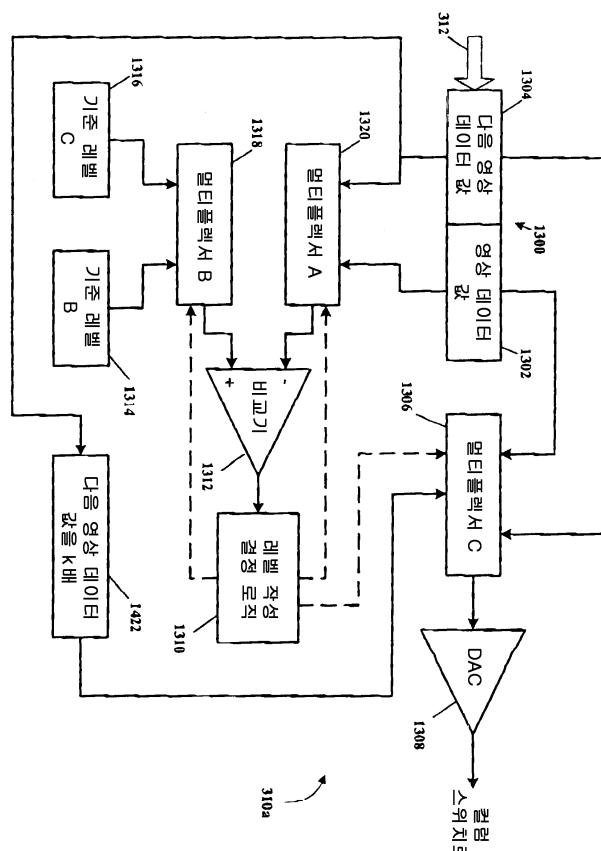






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专利名称(译)	用于改善液晶显示器的图像质量的装置和方法		
公开(公告)号	KR1020020062601A	公开(公告)日	2002-07-26
申请号	KR1020020003682	申请日	2002-01-22
申请(专利权)人(译)	用你的系统化 , .		
当前申请(专利权)人(译)	用你的系统化 , .		
[标]发明人	PFEIFFER MATTHIAS P 파이퍼마티아스피 KLEIN TERRANCER 클라인테란스알 WATERMAN JOHNKARL 워터먼잔칼		
发明人	파이퍼,마티아스[.피]. 클라인,테란스알 워터먼,잔칼		
IPC分类号	G09G3/20 G09G3/36		
CPC分类号	G09G2310/027 G09G3/3611 G09G2320/02 G09G3/2011 G09G2320/0209 G09G2340/145 G09G3 /3648		
优先权	60/263355 2001-01-22 US		
外部链接	Espacenet		

摘要(译)

关于灰度级变化到标准灰度级的视频数据流是从包括像素矩阵黑的最深处分析的。它限制在相邻像素之间，使得到灰度级的转换减少了由于边缘场效应引起的图像下降。灰度等级中的至少一个超过灰度级间的差值，将准备好的灰度等级与相邻像素进行比较，修改移位寄存器等可用于存储的存储器。液晶显示器，灰度级和边缘场效应。

