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G09G 3/36

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2002 - 0094109
2002 12 18

(21) 10 - 2001 - 0032364
(22) 2001 06 09

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(72) 1 957 - 5 2 201

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(54)

가 , 가

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9 2

10 9

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51,91 : 52 :

53,93 : 54,94 :

55,95 : 56,96 :

57,97 : 58,98 :

61,63,103 : 62 : XOR

64,65,105 : 66,106 :

67,107 :

Im Transistor; (Liquid Crystal Display) 가 (Active Matrix) (Thin Fi

" TFT")가 가

1 , 가 (Motion Burring) , 가 (Contrast ratio) , 가

1 가 가 가

2 가 가

5 10

5 (95) (96) (98) (96) (97) (94) (95) (H,V)가 (93) (91) (91)

(96) (97) (98) (97) (98) TFT (97) (Clc) TFT (97) (Clc) (98) (97) (Clc) TFT

3) (91) (91) / (9) (Dclk) (GSP) (95) (H,V) (Dclk) (95) (GSP) (94) (94)

(94) (91) (GSP) (Clc) (97) (Clc) (94) TFT

ta)가 (95) (93) (R), (G) (B) (RGB Mda) (Dclk) (95) (R), (G) (B) (51) (RGB Mdata) (97) (95) (97)

(93) 가 (93) 가 (R), (G)
 (B) , 가 (93) (91) (106) (105) (1
 6 , (93) (103) (103) (105) (1
 03) , (106) (103) (105) (105)
 (103) (91) 1
 (105) (103) (91) 8
 (RGB Data)가 3 4 (MSB)
 (105) (106) (Fn) (103)
 (Fn) (Fn - 1) , 2 (mapping)

[2]

	3V	4V	5V	6V	7V	8V
3V	2.9V	5.1V	9.3V	11.8V	13.7V	15.4V
4V	2.2V	3.9V	6.8V	9.1V	11.2V	12.9V
5V	2.0V	3.2V	4.9V	7.3V	9.3V	11.1V
6V	1.65V	2.6V	4.0V	5.9V	8.0V	9.8V
7V	1.6V	2.6V	3.5V	4.9V	6.9V	8.8V
8V	1.6V	2.4V	3.1V	4.4V	6.2V	7.9V

2 , (Fn - 1) (VDn - 1) , (Fn)
 (VDn) .
 (105) 가가
 2 (R), (G) (B) 가 2

VDn < VDn - 1 - - - > MVDn < VDn - - - - -
 VDn = VDn - 1 - - - > MVDn < VDn, - - - - -
 VDn > VDn - 1 - - - > MVDn > VDn. - - - - -

(R), (G) (B) 가
 (Fn - 1) 가 , 7 (Fn) (VGD)가
 (VRD) (VBD)가 (Fn - 1) (Fn)
 1 (64) , 2 (65)

B) , 8 , (BLG,BL (BLR) (R), (G) (B) 가

9 10 2

9 (Clc) TFT가 (56) , (57) (58) (56) (57) (54) , (55) , (56) (58) (H,V)가 (51) , (51) (55) (52) (53) .

(56) (57) (58) (57) (57) (Clc) TFT (58) (57) (57) TFT (Clc) .

2) (51) (53) (H,V) (Dclk) (51) (5) (55) (GSP) (54) (54) (Dclk) (GSP) (55) () (GSP) (54) .

(54) (51) (GSP) (Clc) (54) TFT (57) (Clc) .

ta)가 (Dclk) (55) (53) (R), (G) (B) (51) (Dclk) (RGB Mdata) (55) (RGB Mda) (55) (R), (G) (B) (57) (57) (55) (57) .

(52) (Fn - 1) (Fn) (Ccomp) (53) .

(53) (Fn1) (Fn)

n) 가 (Fn) 가 (Fn - 1) 가 (53) (Fn - 1) (Fn - 1) (F) (52) (53)

10 (52) (53)

10 (61) , 1 (61) (52) (51) (66) 1 (61) (51) (66)

(, " XOR") (62)

1 (61) (51) (RGB Data)

1 (51) 8 (RGB Data)가 1 XOR(62) (61) 3 4 (61) 8

XOR(62) (61) (51) (Fn - 1) (66) (Fn) 1 (Fn - 1) XOR(62) (Fn - 1) (Fn) 가 , '1' , (Fn - 1) (Ccomp) (53) 가 , '0' . XOR(62)

(53) (51) (66) 2 (63) , (66) XOR(62) 1 (64) , 2 (63) (64) (65)

2 (63) (51) 1 (63) 1 (61) 가 , 2 (51) 8 (RGB Data)가 (63) 3 4 (MSB)

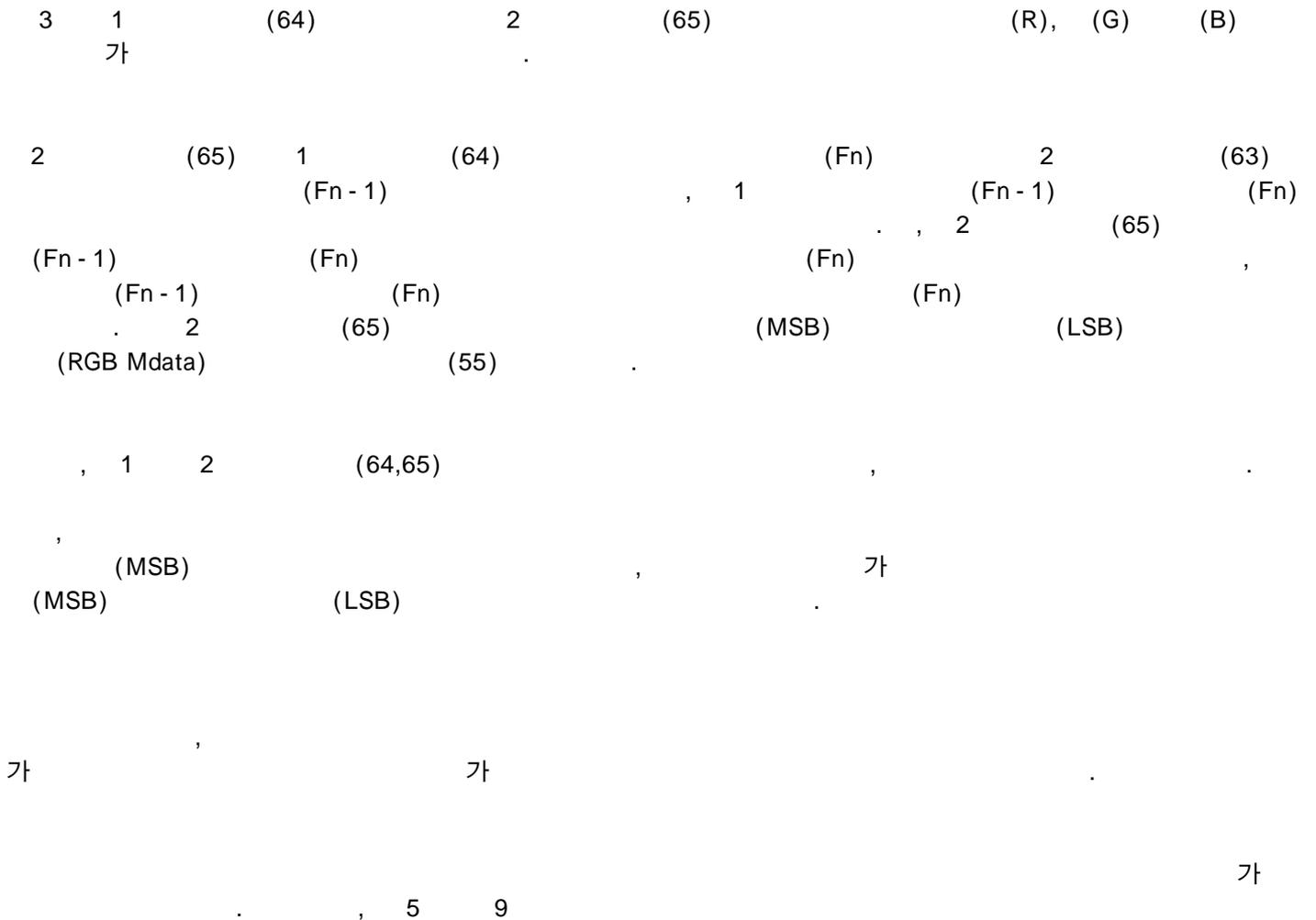
1 (64) (66) (Fn) XOR(62) (Ccomp) , (Fn - 1) (Fn) (64) 3 가

[3]

	3V	4V	5V	6V	7V	8V
0	2.9V	3.9V	4.9V	5.9V	6.9V	7.9V
1	3V	4V	5V	6V	7V	8V

3 (Fn) (Ccomp) (66)

3 (Fn) , 1 (64) (Fn - 1) (Fn) (Fn) (64) (Fn - 1)



(57)

1.

가 가 가 가

2.

1 ,

3.

1 ,

4.

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가

가

가

가

5.

4 ,

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가

가

6.

4 ,

7.

,

가

가

1 ,

가

1

2

8.

7 ,

1 2 ,

1 2 ,

1 2 ,

1 2
가

가

9.

7 ,

10.

7 ,

1 ,

가

가

가

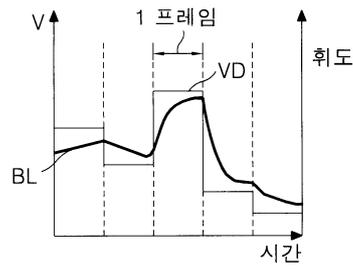
11.

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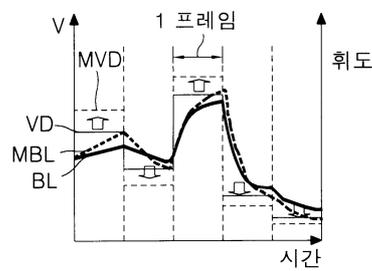
2
가

가

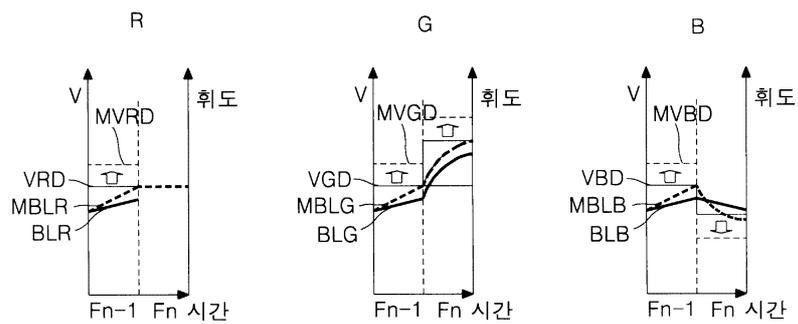
1



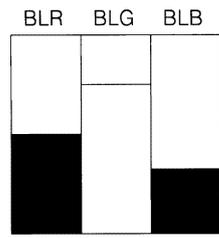
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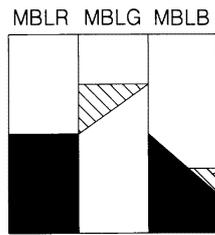
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4



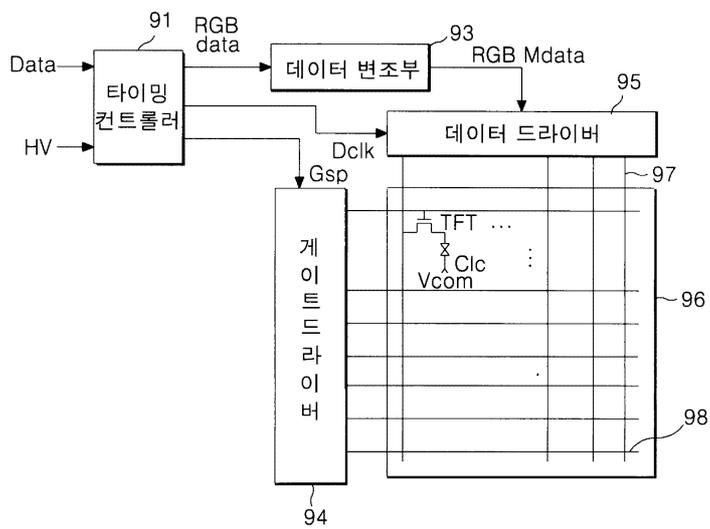
표시하고자 하는 색



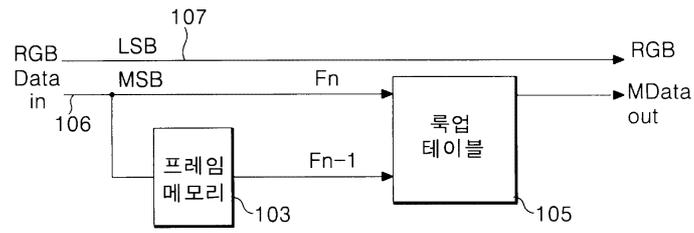
액정의 응답 지연에 따른 휘도 감소

액정패널 상에 표시되는 색

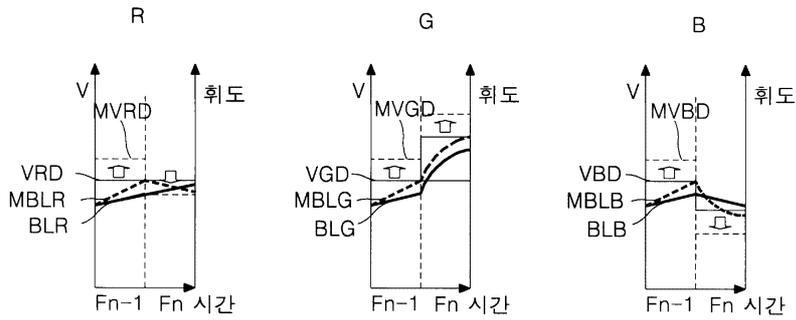
5



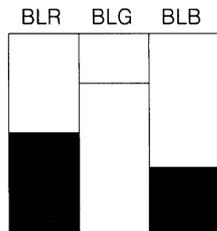
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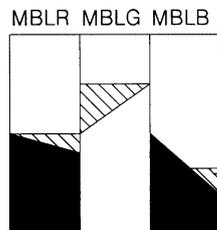
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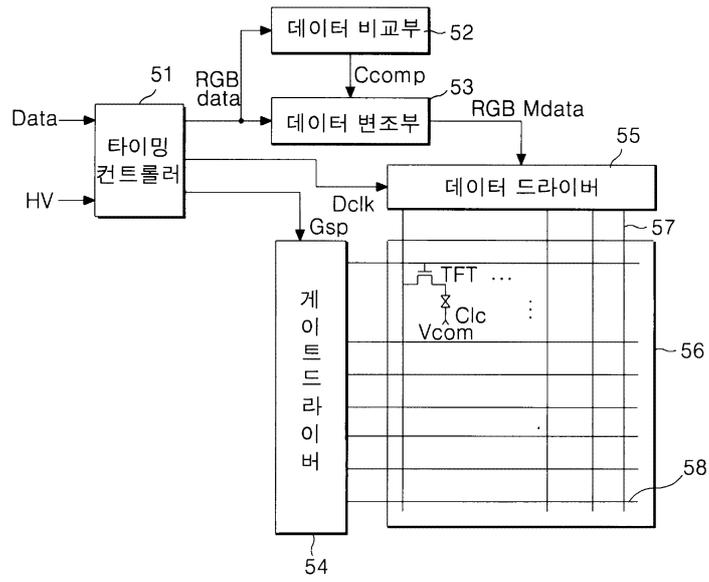


표시하고자 하는 색

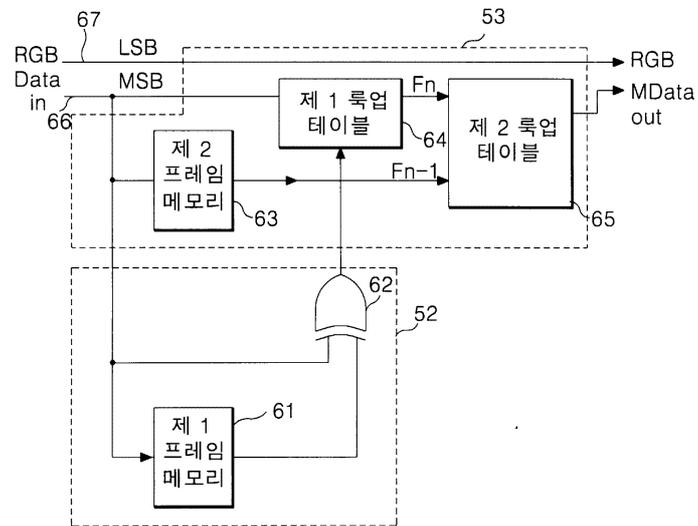


액정패널 상에 표시되는 색

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专利名称(译)	用于液晶显示器的颜色校正的方法和设备		
公开(公告)号	KR1020020094109A	公开(公告)日	2002-12-18
申请号	KR1020010032364	申请日	2001-06-09
[标]申请(专利权)人(译)	乐金显示有限公司		
申请(专利权)人(译)	LG显示器有限公司		
当前申请(专利权)人(译)	LG显示器有限公司		
[标]发明人	HAM YOUNGSUNG 함용성		
发明人	함용성		
IPC分类号	G09G3/36 H04N9/30 G09G3/20 H04N5/66 G02F1/133		
CPC分类号	G09G3/3648 G09G2320/0257 G09G2320/0285		
代理人(译)	KIM , YOUNG HO		
其他公开文献	KR100421500B1		
外部链接	Espacenet		

摘要(译)

目的：提供一种用于校正液晶显示器的颜色的方法和装置，其可以校正颜色平衡。组成：数据驱动器（95）将数据提供给液晶面板（96）的数据线（97），栅极驱动器（94）将扫描脉冲提供给液晶面板（96）的栅极线（98）顺序。向定时控制器（91）提供数字视频数据和同步信号（H，V）。数据调制部分（93）连接在定时控制器和数据驱动器之间。数据调制部分使用查找表来调制数据，在该查找表中登记了用于调制数据的调制信息。

