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G09G 3/36

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(43)

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2003 03 10

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(22)

10 - 2001 - 0054127  
2001 09 04

(71)

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1 957 - 5 2 201

(74)

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(54)

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3 8

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&lt; &gt;

41 : 42 :

43,63 : 44,64 :

51 : 52 :

53 : 54 :

55 : 56 :

57 : 58 :

59 :

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

1 2 , 가

1

가 (rising time) ,  $V_a$  가 ,  $V_F$  가  
(Freederick Transition Voltage) ,  $d$  (cell gap) ,  $\sim$  (gamma)  
(rotational viscosity)

2

$$\tau_f = \frac{\gamma d^2}{K}$$

가 (falling time)  
 , K .  
 TN 20 - 80ms  
 20 - 30ms (NTSC : 16.67ms)  
 1 (Motion Burring) .  
 1 (VD)  
 가 (BL)가 (Contrast ratio)  
 가 .  
 5,495,265 PCT WO 99/09  
 967 ( , ' )  
 2 .  
 2 (VD) (MVD) 가  
 (MBL) .  
 $1 \quad |V_a^2 - V_F^2|$   
 가 (Motion Burring) .  
 (MSB) 가 (Fn - 1) (Fn) (MSB)  
 (Mdata) 3 .  
 4 .  
 4 (42) (43) (44) (43) ,  
 (43) (MSB) 1 (44)  
 (MSB) 8 (RGB) 4 .  
 (44) (42) (Fn) (MSB)  
 (43) (Fn - 1) (MSB) 1 2 (41) (LSB) 가  
 (Mdata) (Mdata)

[ 1]

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
0	00	1	3	4	6	7	9	10	11	12	14	15	15	15	15	15
1	0	11	2	4	5	7	9	10	11	12	13	14	15	15	15	15
2	0	1	22	3	5	7	8	9	10	12	13	14	15	15	15	15
3	0	1	2	33	5	6	8	9	10	11	12	14	14	15	15	15
4	0	0	1	2	44	6	7	9	10	11	12	13	14	15	15	15
5	0	0	0	2	3	55	7	8	9	11	12	13	14	15	15	15
6	0	0	0	1	3	4	66	8	9	10	11	13	14	15	15	15
7	0	0	0	1	2	4	5	77	8	10	11	12	14	14	15	15
8	0	0	0	1	2	3	5	6	88	9	11	12	13	14	15	15
9	0	0	0	1	2	3	4	6	7	99	10	12	13	14	15	15
10	0	0	0	0	1	2	4	5	7	8	1010	11	13	14	15	15
11	0	0	0	0	0	2	3	5	6	7	9	1111	12	14	15	15
12	0	0	0	0	0	1	3	4	5	7	8	10	1212	13	15	15
13	0	0	0	0	0	1	2	3	4	6	8	10	11	1313	14	15
14	0	0	0	0	0	0	1	2	3	5	7	9	11	13	1414	15
15	0	0	0	0	0	0	0	1	2	4	6	9	11	13	14	1515

1 , (Fn - 1) (VDn - 1) , (Fn)  
(VDn) .

(Dynamic Contrast Ratio)가 2 (Normal Drive) 가 가  
가 , , .

가

가

가

가

가 2

2

, 5 7

5, (Clc) TFT가 (57), (55) (56) (57) (55)  
 (54), (53) (H,V)가 (57) (56) (51), (51) (AM)  
 data) (53) (RGB) (58), (51) (58)  
 (59)

(57) (55) (56) (55) TFT (55)  
 (56) (55) (Clc) TFT (Clc)  
 (56), (55) TFT

(51) (51) (RGB data) (52) (59)

(51) / (H,V) (Dclk),  
 (GSP), (GSC), /  
 (53) (54) (Dclk)  
 (53) (GSP) (GSC)  
 (54) 가 (51) (58)

(58) (SW) (SW) (V) 1/2 (51)

(54) (51) (GSP) (GSC) (Clc) TFT T  
 FT가 (55) (Clc) (GSC) (Clc)  
 GSP) 2 가

(53) (58) (AMdata) (RGB)가  
 (53) (53) (Dclk) 2 가 (Dclk)  
 (53) (53) (55) (55) (Dclk)  
 2 가 (AMdata) (RGB)가

(52) 4 (RGB) (MSB)  
 (52) 6 8 (61) (62)

$VDn < VDn - 1 \rightarrow MVDn < VDn$

$VDn = VDn - 1 \rightarrow MVDn = VDn$

$VDn > VDn - 1 \rightarrow MVDn > VDn$

,  $VDn - 1$  ,  $VDn$  ,  $MVDn$

(58) (51) (SW) (AM  
 data) (RGB) (53)

(59) (AMdata)가 (57) (RGB) 1

(57) 7

7 (OSF) (ESF) (OSF)  
 (ESF)

7, 'VD', , 'BL', 'MVD', 'MBL', 'AMVD', 1, 'AM', BL', .

(OSF) (52) (AMdata)가 (57) .  
(ESF) (RGB)가 (57) .  
(OSF) ( )  
(Clc) 가 ( ) . , (O  
SF) (OSF) (RGB)

(ESF) (OSF)  
(ESF) .  
7, (57) (MVD)  
가 .  
(AMdata) (AMdata)가 가 (Over - shoot)

, 가  
, ,  
(PDP), (FED), 가 (EL)  
(58) (59)

(57)

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가

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13.

11 ,

가

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가

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14.

13 ,

가

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15.

13 ,

가

가

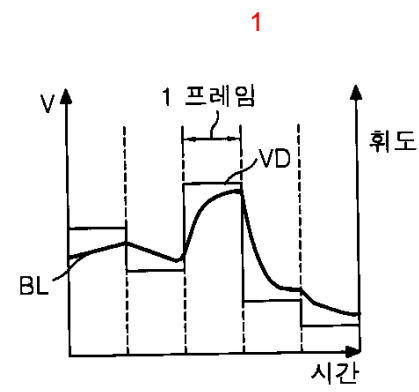
2

.

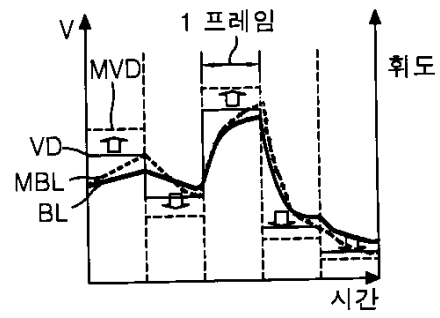
16.

13 ,

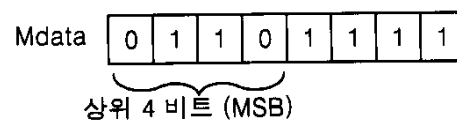
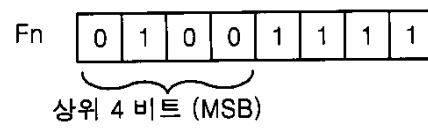
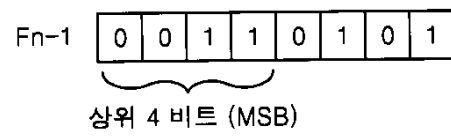
2



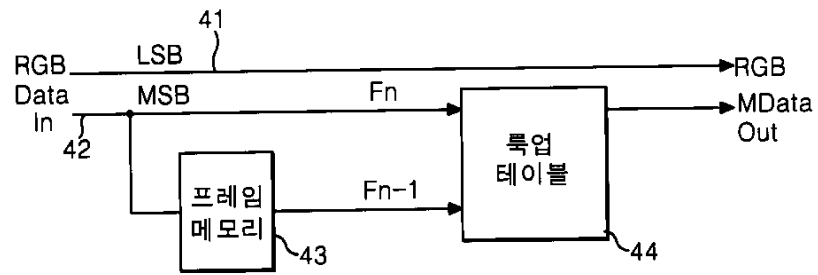
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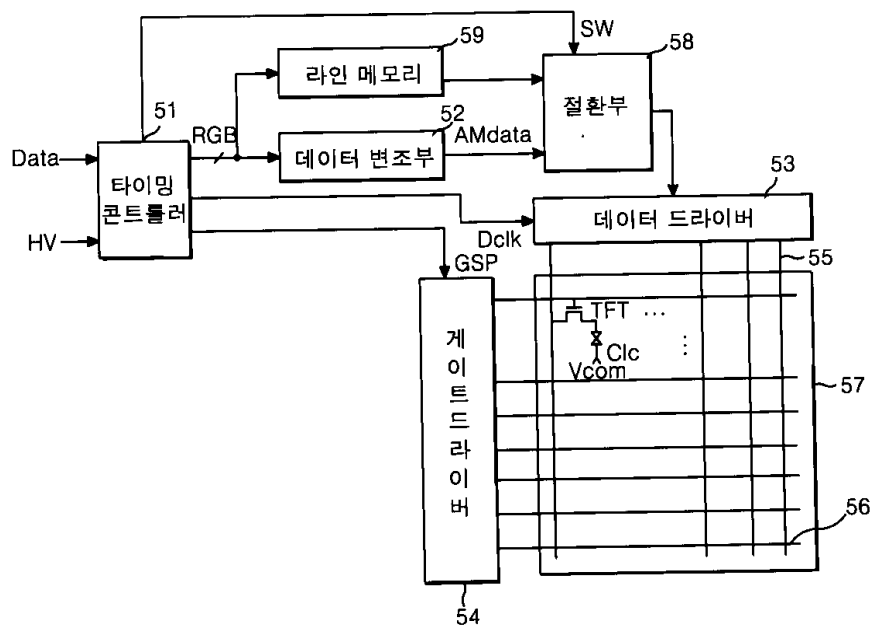
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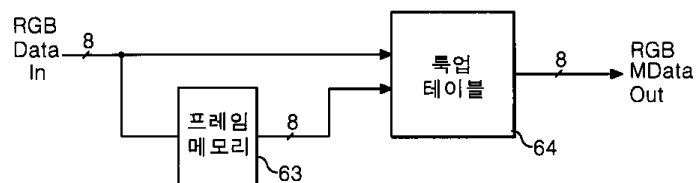
4



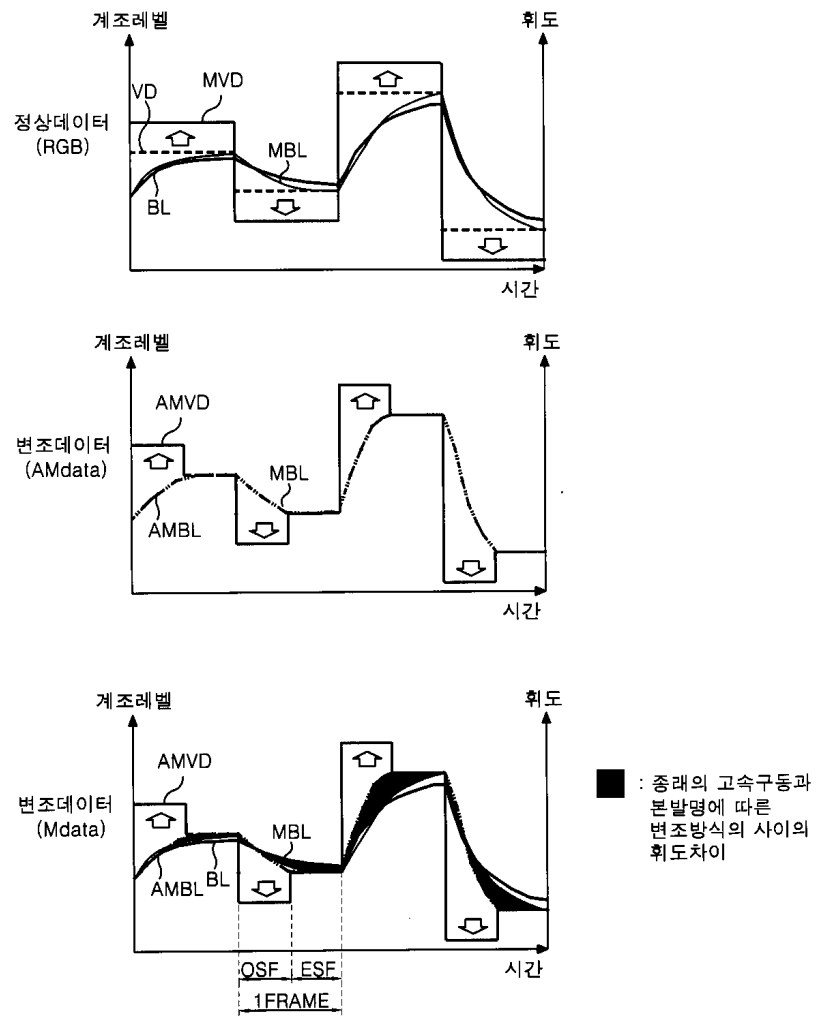
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专利名称(译)	用于驱动液晶显示器的方法和设备		
公开(公告)号	<a href="#">KR1020030020693A</a>	公开(公告)日	2003-03-10
申请号	KR1020010054127	申请日	2001-09-04
[标]申请(专利权)人(译)	乐金显示有限公司		
申请(专利权)人(译)	LG显示器有限公司		
当前申请(专利权)人(译)	LG显示器有限公司		
[标]发明人	HAM YOUNGSUNG 함용성		
发明人	함용성		
IPC分类号	G09G3/36 G09G3/20 G02F1/133		
CPC分类号	G09G3/3648 G09G2340/16 G09G2320/0252		
代理人(译)	金勇 年轻的小公园		
其他公开文献	KR100769168B1		
外部链接	<a href="#">Espacenet</a>		

## 摘要(译)

本发明涉及一种改善图像质量的Kish按键锁定液晶显示器的驱动方法及装置。该液晶显示器的驱动方法及其装置提供与帧源数据的后一项中的调制数据不同的数据，使用预定的调制数据在帧的初始位置调制到显示面板。

