

(19)
(12)

(KR)
(A)

(51) 。 Int. Cl.⁷
G09G 3/36

(11)
(43)

2003-0078655
2003 10 08

(21) 10-2003-0017423
(22) 2003 03 20

(30) JP-P-2002-00096903 2002 03 29 (JP)

(71) 가 가 가 가 4 1-1

(72) 가 가 가 가 4 1-1

가 가 가 가 4 1-1

가
가 가 가 가 4 1-1

(74)

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(54)

/ EMI

(101) ,

(104) , (102) ,
(107a 107z)

가

1 1

2

3 (a) (c) 1

4 3 (a)

5 3 (a)

6	(a)	(b)	2
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7 6 (a)

8 (a) (b) 3

9 (a) (b) 8 (a) (b)

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101 : TFT

102 :

103 :

104 :

105 :

106a 106z : TAB

107a 107z :

108 :

111 : MOS

112 :

201 :

202 :

203 :

204 :

205 : D/A

206 :

가

(TFT)

, TFT

가

, TFT

(EMI)

/ EMI

가

/ EMI

(TFT) (101)

n MOS (111)

(102)

(107a)

(104)

(103)

(104)

(111)

(107a, 107b, ..., 107z) (108)

(107a, 107b, ..., 107z)

TAB(tape automated bonding)(106a, 106b, ..., 106z)

(105)

(103) TAB(107a) (108), (107a 107z)
 (108)
 , TAB(106a, 106b, ..., 106z) TAB(106) (107a, 107
 b, ..., 107z) (107)
 (103) , (108) (107) , (107)
 (107) (107) 384 (107)
 (111)
 2 (107) (201) , (103)
 (107) ICD ICLK , ICD
 (202) (202) ,
 (103) (107) IRDT, IGDT
 IBDT , IRDT, IGDT, IBDT
 (111)(1) ,
 (202) ,
 ICD가 OCD가 (107)
 (107) 가 ORDT, OGD, OBDT ,
 IRDT, IGDT, IBDT가 (107)
 (202) IINV
 (107) (202)가 IRDT (203) ,
 (103) (107) LP , (203)가 , 8
 202) IRDT (204) ,
 D/A (205) , (103) (107) IPOL
 Va , Va (204)가
 , D/A (205) , (111)
 1 , (102)
 가 , D/A (205)가 1
 (111) (206)
 , (210a 210f) (210a) , ICLK
 OCLK (201)가 ICD
 OCD OCLK ,
 (107) ICD ICLK
 (210b, 210c, 210d) , ICLK IRDT, IGDT, IBDT
 ORDT, OGD, OBDT OCLK , (210
 a) (210b) ORDT, OGD, OBDT (21
 Od) , (107) IRDT, IGDT, IBDT
 OINV OBDT , ICLK IINV
 OINV
 가 , (210e) (210f) , ICLK ILP
 IPOL OLP OPOL OL
 P OPOL , (107) ILP IPOL
 , (210a 210f) , ICLK
 (107) ICD,
 ILP, IINV IPOL (210a 210f)
 가 OCLK (210a 210f) ,

(210b) , (210b) , ORDT ,
OCLK .
3 (a) (210b) D (301) , CLK ICLK
) ORDT () IRDT Q (,
OCLK (302) , ICLK ,
4 3 (a) (301) , ICLK ICLK
, IRDT , ORDT (302) ICLK ()
OCLK , ICLK OCLK , EMI
, IRDT ORDT , EMI
5 3 (a) (302)가 , 4 (302)
, (302) ,
OCLK ICLK , IRDT ORDT ,
, ICLK OCLK , IRDT ORDT , EMI
가 가 , EMI
, (302) , 4 , ICLK OCLK
, IRDT ORDT , EMI
3 (b) (210b) , 3 (a) (302)
(303) (303) , ICLK OCLK
D IRDT (301) , CLK (303) 가 ,
(a) (302)가 , Q , 3 ORDT , 3
3 (b) 4 , 3 (b) (303)가 .
3 (c) (210b) , 3 (a) (304)
(304) , (301) Q가 , ORDT
, (304) , (302) ,
, 가 , 3 (b) (304) 가 .
(2)
2 , 1 2
(210a 210f) , (210b) ,
6 (a) (210b) 3 (a) (6
01) 가 (601) , ICLK BCLK
, (601) , ICLK BCLK
7 , ICLK OCLK , OCLK
BCLK , OCLK BCLK , OCLK BC
LK 1 TAB(106) (105) , EMI
, BCLK
,
(107) (301) CLK , (107)
OCLK BCLK , OCLK
(601) , ICLK BCLK
6 (b) (210b) , 6 (a) ,

3 (b) (602) BCLK (602) ICLK BCLK ,
EMI OCLK BCLK가
(3)
(210a 210f) 1 2 (210b)
8 (a) (b) (107) 8 (a) (210b) (107) 8 (b)
1) 8 (a) (107) (210b) (801) IRDT (802) ICLK
K Q CLK ORDT (802) ICLK ICL
OCLK
9 (a) 8 (a) (801) ICLK
OCLK IRDT ORDT (802) ICLK
b) 8 (b) (107) (210b) 8 (b)
8 (a) (801) (803) (803) ICLK
9 (b) 8 (b) (803) ICLK
OCLK IRDT ORDT (802) ICLK
(107) (107) 8 (a)
9 (a) ICLK 8 (b)
9 (b) ICLK
ORDT(9 (a)) ORDT(9 (b))
EMI 가 EMI
, 8 (a) (b) (804) 3 (c) 가 (801 803) ORDT Q가 ICL
(804) ORDT OCLK (802 804) (801) (803) (801) ICL
K ICLK 8 (b) (803) ICLK
(107) TAB(106) (107)
가 8 (a) 가 8 (a) 8 (b)
chip on glass) 1 TFT (101) (107) TAB(106) COG(
(107) TFT
1 2 가 ICLK
OCLK
가
MI
ORDT

EMI .

3 , ICLK ICLK ORDT

EMI 가 EMI

가 가

가 가

(1) ,

(2) 가 1

(3) 가 1

2 1

1

(4) 가 1

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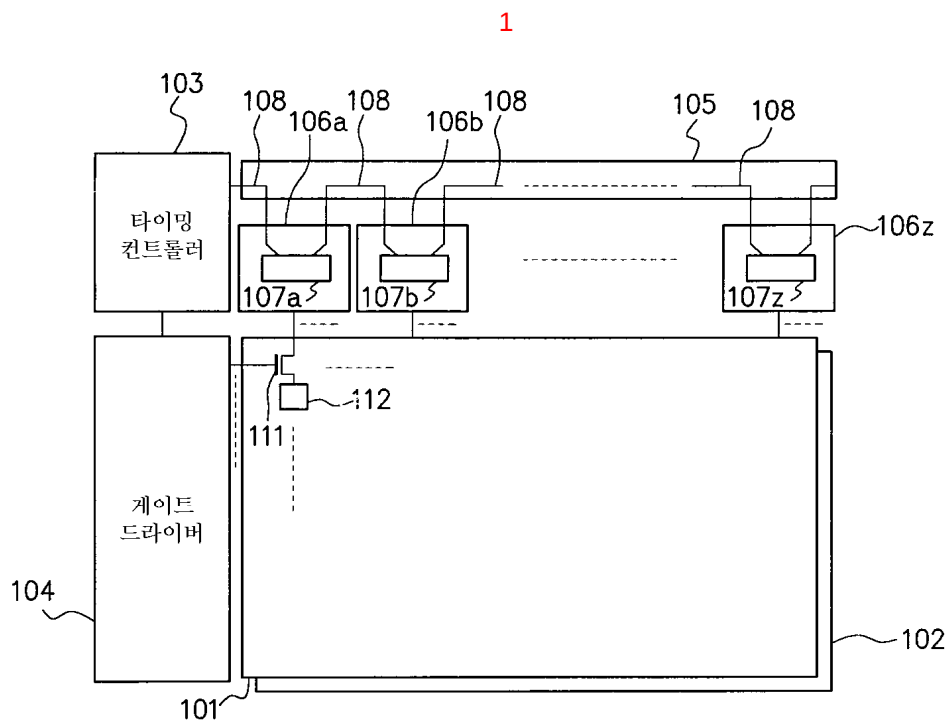
1
9
(12) 가 9
(13)
가
(14) 가 13
(15) 가 1
2
13 1
(16) 가 13
(17)

- 4 5. ,
가 ,
4 6. ,
가 1 ,
2 ,
1
7. ,
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가 ,
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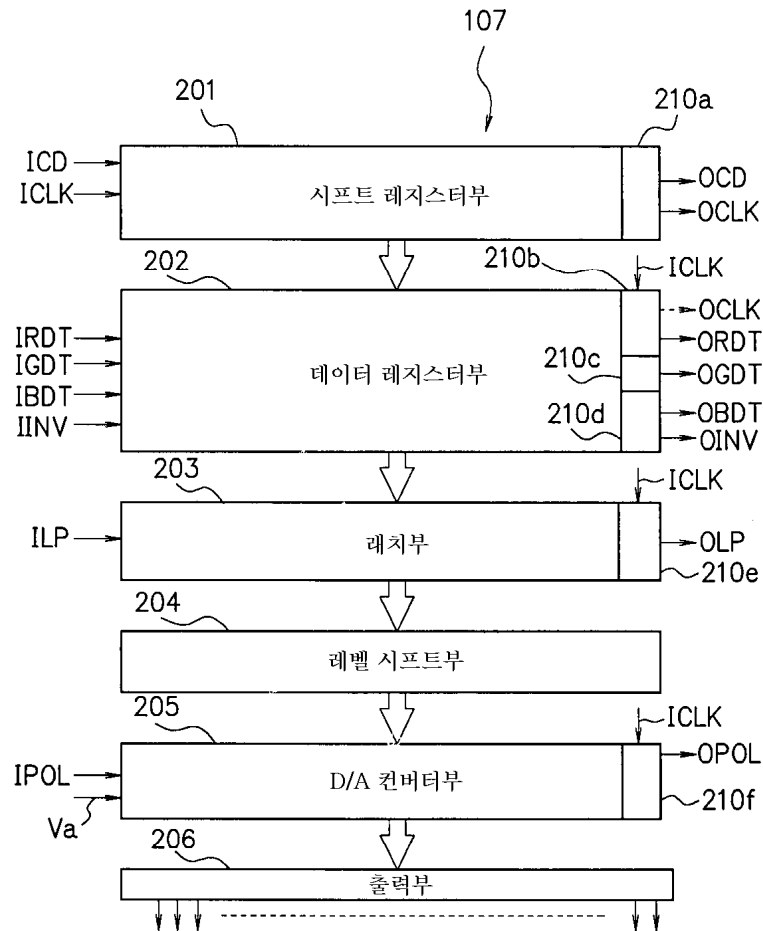
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10.

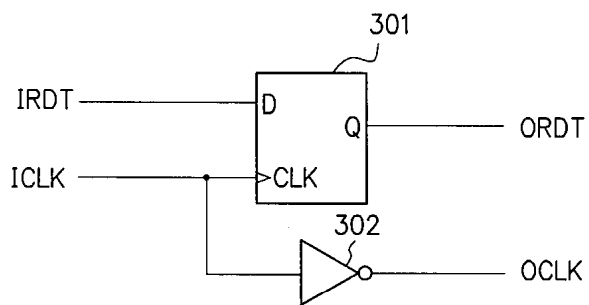


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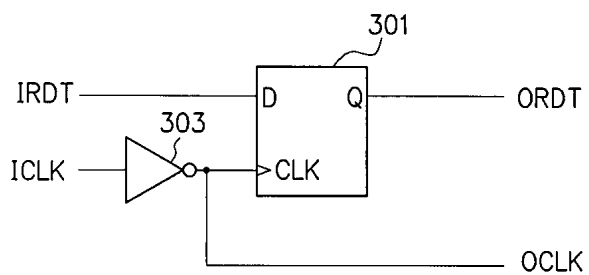


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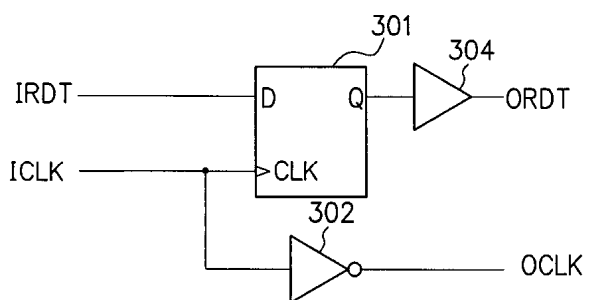
(a)



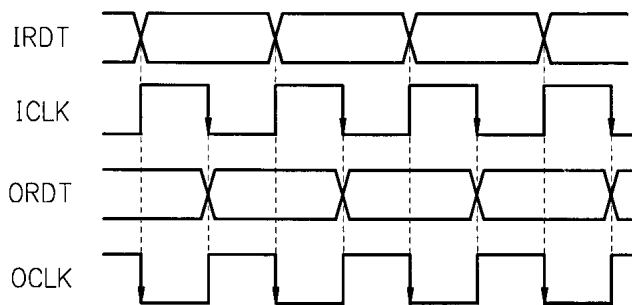
(b)



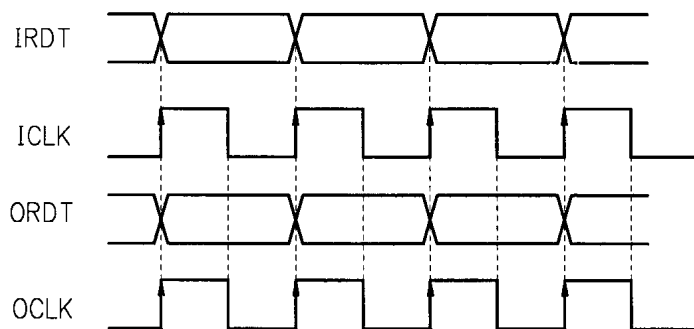
(c)



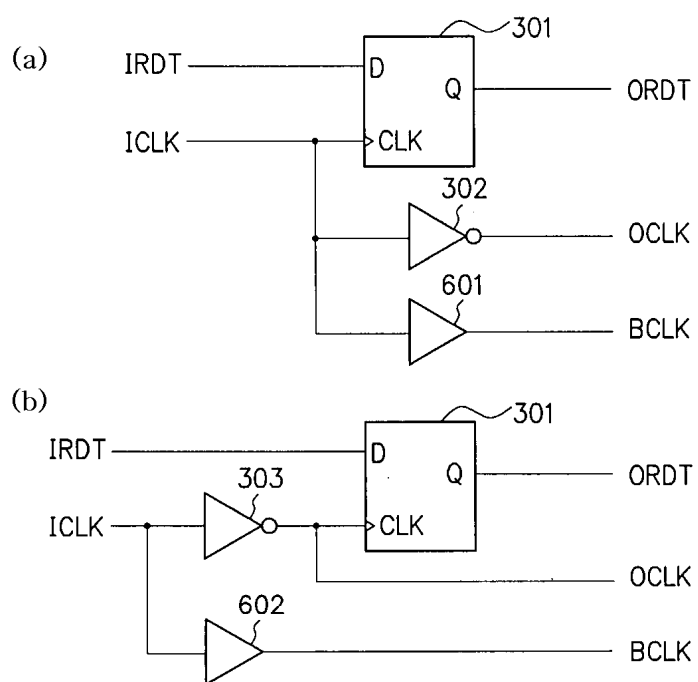
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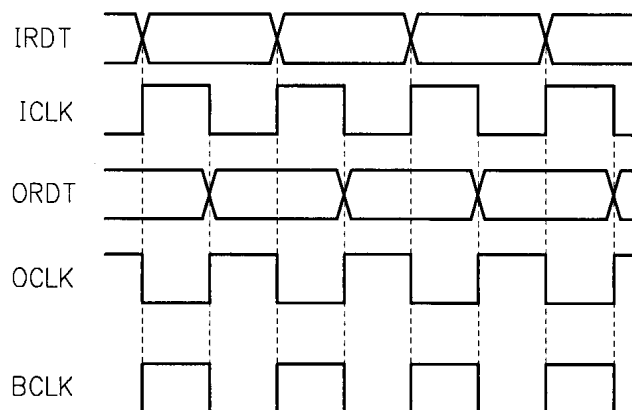
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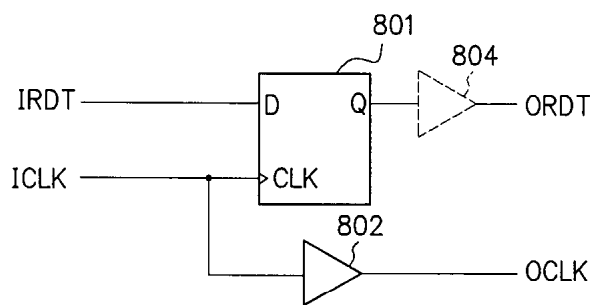


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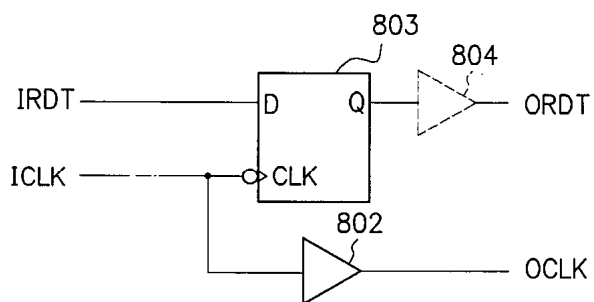


8

(a)

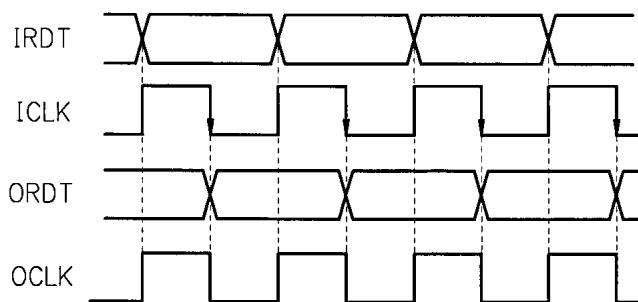


(b)

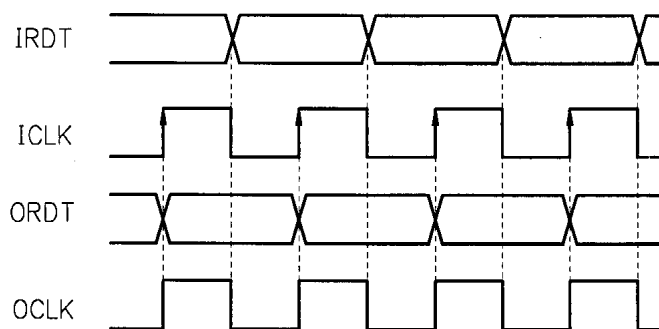


9

(a)



(b)



专利名称(译)	液晶显示装置及其驱动器		
公开(公告)号	KR1020030078655A	公开(公告)日	2003-10-08
申请号	KR1020030017423	申请日	2003-03-20
[标]申请(专利权)人(译)	夏普株式会社		
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当前申请(专利权)人(译)	夏普株式会社		
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发明人	세끼도사또시 후쿠토쿠쇼이찌 히라키가쓰요시		
IPC分类号	G09G3/20 G02F1/133 G09G3/36		
CPC分类号	G09G3/20 G09G2310/027 G09G2330/06 G09G2320/0209 G09G2310/08 G09G3/3688 G09G2300/0426		
代理人(译)	CHANG, SOO KIL CHU, 晟敏		
优先权	2002096903 2002-03-29 JP		
其他公开文献	KR100764961B1		
外部链接	Espacenet		

摘要(译)

提供了一种用于防止串扰和/或EMI的不良影响的液晶显示器。提供了具有多个晶体管的晶体管板(101)，包括栅极，源极和漏极以及公共衬底(102)，其布置在公共电极面对晶体管板中它设置的液晶包括公共电极和栅极驱动器(104)，用于驱动多个晶体管的栅极和液晶显示器，多个源极驱动器单元(107a~107z)以级联方式连接，并包括用于驱动多个源极的源极驱动器晶体管。每个源驱动器单元具有触发器，其操作它在时钟信号和反相器中同步以反转时钟信号并在下一级的源驱动器单元中输出。串扰，公共电极，源极驱动器，级联。

