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(43)

2002 - 0081094
2002 10 26

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(71) 가 가
5 7 1

(72)
5 - 7 - 1 가 가
5 - 7 - 1 가 가
5 - 7 - 1 가 가

(74)
:

(54)

(LCD) LCD 1 2 1 2 LCD
가 . 가
1 2 2N - 2N - (path)(
N)
N - 1 N -
2 .
2

LCD, , , ,

1 LCD

2 1 LCD

3a 2

3b 3a

4a 4d 3a

5, 6, 7 3a

8 2 LCD

9 2

10 2

11a 11f 2

12a 12c 3

13a 13c 4

(LCD) , LCD

LCD TV , PC, PDA, LCD가 , LCD 가
 (TFT) LCD ()가 , , ,

LCD LCD 가 가
 , LCD 가 LCD EMI(electromagnetic interference)가

5 - 210359 10 - 207434 가 2 (group)
가

가 5 - 210359 1

1 LCD (2) LCD (2) LCD (2)
TFT (3) LCD (3) 2
(3L) LCD (2) (3R) LCD (2)
가 (CK1) 2- (S1, S2)
(4) (CK1) (CK1) (CK2)
가 (5)

(6) (CK2) 2- (S1, S2)가
(3L, 3R) S1U S2U 가 (6) (S1 S2)
(SP) (SP) (3L, 3R) 가
(S1U, S2U) LCD 가 EMI 가

(path) 가
(3L, 3R) 2- LCD
LCD (2), (4), (6) LCD
LCD LCD 가 LCD
LCD LCD LCD LCD

5 - 210359 10 - 207434

(path) 2
LCD

1 2 (LCD) LCD 1 2
LCD 가 1 2
(path)(N) 2N
N- 1 1 2N
N- 2 2

, LCD , LCD 1 2 1 2
 , 1 2
 2N - (path)(N)
 2N - 1 N -
 1 2
 (LCD) 2 N -

1 2 8 2
 () (10) (11) (10) (LCD) (14)
 () ()가 (12) , LCD (14)
 () (16) (TFT) 2
 . TFT 가
 TFT (17) 가 .

1 (12) 2 (proup ; 12L, 12R) ()
 12L) LCD (14) (12R) LCD (14)
 (12) 가 (gray level) (18)가
 8, 16, 32, ..., 256 가 (10) 가
 (, (R), (G), (B)) .

2) 2 (10) 2 ((path) ; 20, 22) 2 (1,
 (12L, 12R) (12) 가

(11) (1, 2) (; 23)
 (12L, 12R) (23) 가 , (11)
 (1, 2) (11) 가 (11)
 (,)

3a 3b (10)가
 (10) (24), (3a) 2
 (26, 28), 4 (30a 30d), (32) (32)
 가 (30a 30d) - 3b
 (34, 36) (24) (34a
 30d) (34a 30d) 3a
 (11)

가 3a

(10) 3a 3d, 4a 4d, 5 7
 (1, 2) 3 4a 4c
 0, 1, 2, ..., 2M - 1
 (, R, G, B) 4a 4d (A)
 (B) (A) 1/2 () 4d
 (10) (1, 2) (1, 2)
 4d
 (1, 2) 4a 가 (32) (10) 가
 (1, 2) (30a, 30b) (30a, 30b)
 (1, 2) (30d) (30c)
 (1, 2) 4b (32) (1)
 (26) 가 (30c) (26, 28) (30a, 30b)
 (30d) 4d (26, 28)
 5 7
 4c (1) (1, 2) 4b (2)
 (1) 1/2 (24) (32) (1) 1/2
 2) 2 (24) (30c) (1) (1,
 (34) (A)가 (36) 가 (34) (A)
 4c (36) 4b (1) 1/2
 5 7 , 4b (1, 2) /
 가 가 (26, 28) 가
 가 2 4 (, 8) (1
 4, 5 8) (26, 28)
 5 (1, 2) 1
 (1) 1 (0, 2, ..., M - 2) 1 (1)
 (2) 1 (1, 3, ..., M - 1) 1 (2)
 (1) 1 (M, M+2, ..., 2M - 2) 2 (3)
 (2) 1 (M+1, M+3, ..., 2M - 1)
 2 (4) / (5 8)

(10) (2 3a).

6 (1, 2) 1 (1, 2) 2
 가 (5-6) 2
 2 가 (1-4) 1 6
 2) 1 (1-4) 4d (10) (1, 2)

7 2 (1, 2) 3

8 (12L, 12R) (,)
 (L1, R2) 1 가 ()
 (L2, R2) (L
 L1, LL2, ... RL1, RL2, ...) (stage) 가 가
 (multiple stage) (LL1, LL2, RL1, RL2,)
 (, (A)) (10) (1, 2)
 가 (LL1, LL2, ..., RL1, RL2, ...)

TFT 가 .

2 가 9, 10, 11a 11f 2
 (110)(9) 4 (1 4) (11
 0) 4 (1 4) , 2
 1

9 11a 11e 4 (1
 4) (110) 가 (110)
 (124), (126), (130d), 가
 가 (132) 2 1 2

(110) (1 4) 10 (112L, 112R) 가 11f (1-2, 3-4) L
 CD .

10 (112L, 112R) 8 8 ,
 (,) (L1', R1') 1 가
 ((A)) (L2', R2')
 (1-2, 3-4) (112L, 112R)
 2 (L1', R1') (stage)

가 . , (LL1', LL2', ..., RL1', RL2', ...) 2
 (110) (1-2, 3-4)
 8 .

(1-4) 11a (110) 가
 (1-43) 11f 가
 (132) (1-4) (path) (130d) (130
 d) 3a (13d) (132) (124) (124s)
 (124s) 가
 (132) (126) (126s) 3a (30c) , 2 (126s)
 2) (126) 가 (126c) 3a (30c) 2 (1,
 가

(1-4) 11b (1, 2)
 가 가 (1-4) (124)
 (124c) 9 (126) 16 가
 가 2 1 2 (1-4)
 5 7 가 , 1 2
 가 2

(1-4) 11c 1/2 1/2 가
 (124) (1-4) 가 (124s) (3-
 4) (3-4)
 (126) 가 11b (1-4)
 11d (1-4) , 11b
 (1-4) (11d 11b) (130d)
 가 .

(1-4) 11 (132) 11c
 1/2 1/2 가 (124) (1-
 4) (1-2) (3-4)
 4) 가 (126) 가 11d (1-4)
 .

3 가 12a 12c . LCD
 / LCD

(10 110) LCD 3 가

12a (1) (10) 가 12c

1 (10) 1 (1, 2) (1)
 10) 12c (0, 1, 2, ..., M - 1) (30a, 30b, 30d) (10) 가
 (12L, 12R) 가 12b (2) 가
 가 (110)가
 12c 가
 4 13a 13c / 2
 LCD 가
 13a (1) (10) 가 (1) 12c 1
 (10) (0, 1, 2, ..., M - 1) (1, 2) (10) 13c (12L,
 12R) 2 (10) 가 (12) 가 13b (2) (110)
 가 13c
 가 2 4 가 가
 가 2N(N 2) 가 (24 124)
 (30d 130d) 110
 4

(57)

1.
 LCD ,
 LCD 1 2 1 2
 1 2 ,
 2N - (path)(N) 1 N - 1
 2 N - 2
 (LCD)

2.

1 , ,
 2N - 가 , ,
 2N - 1
 ,
 2N - 2

3.

2 , ,
 2N -
 2N -

4.

2 , ,
 2N -
 2N -

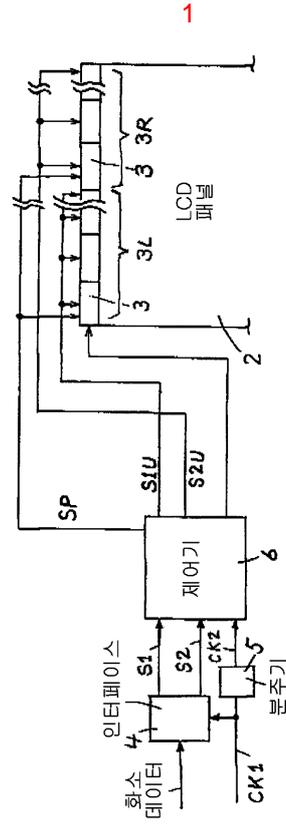
5.

1 , ,
 LCD 1 2 -
 1 2 2 - , 2 -

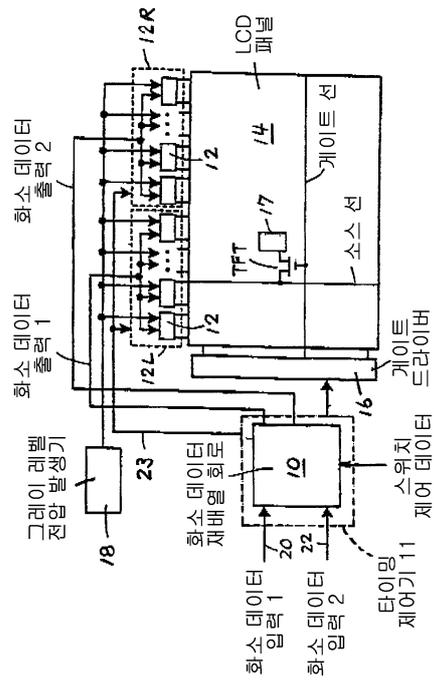
6.

1 , ,
 LCD 1 2 -
 , 2 - 가(doubling) 2 -
 1 2

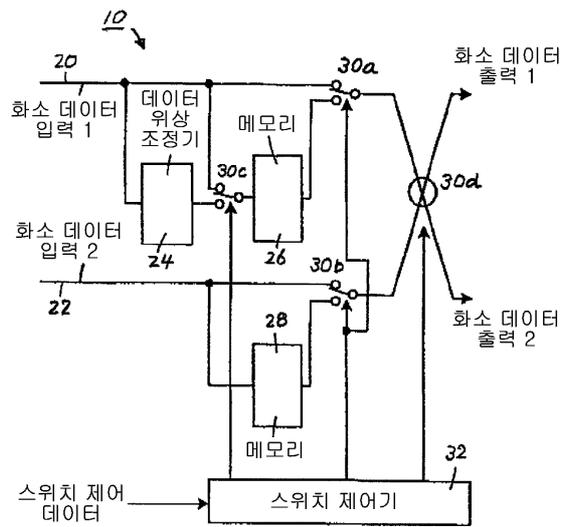
종래기술



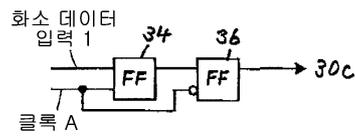
2



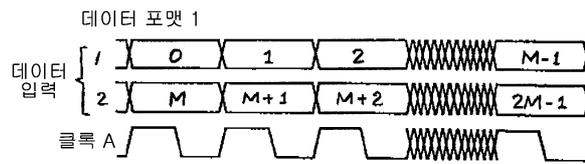
3a



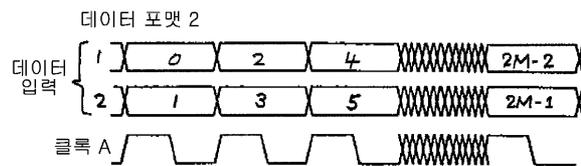
3b



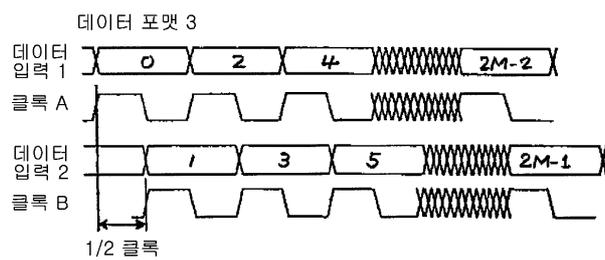
4a



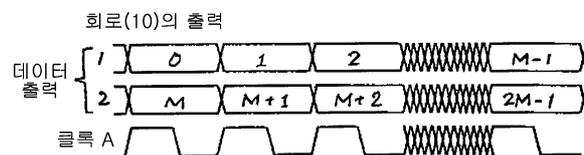
4b



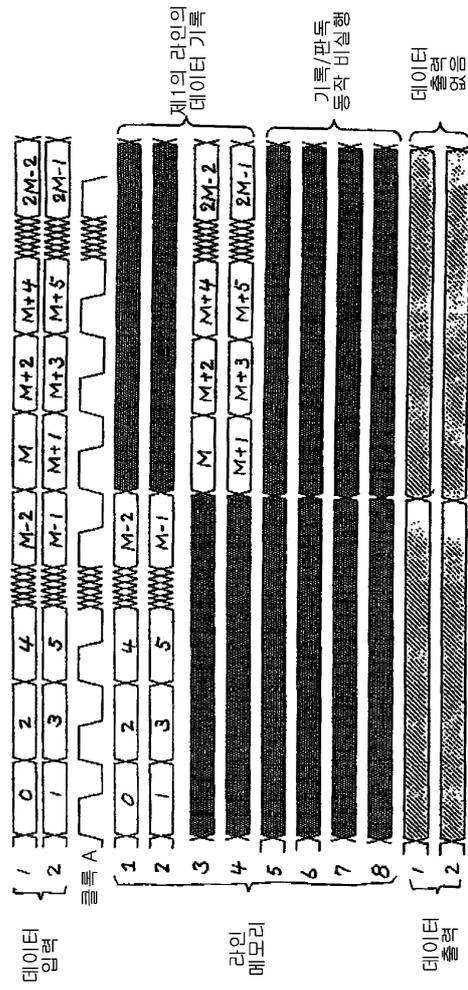
4c

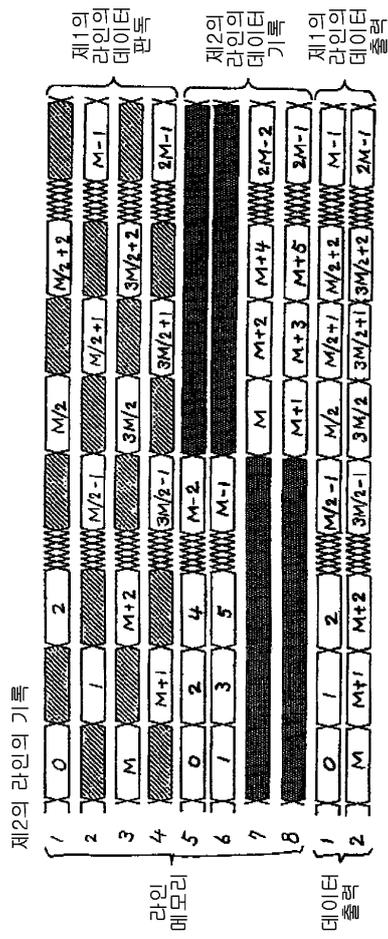


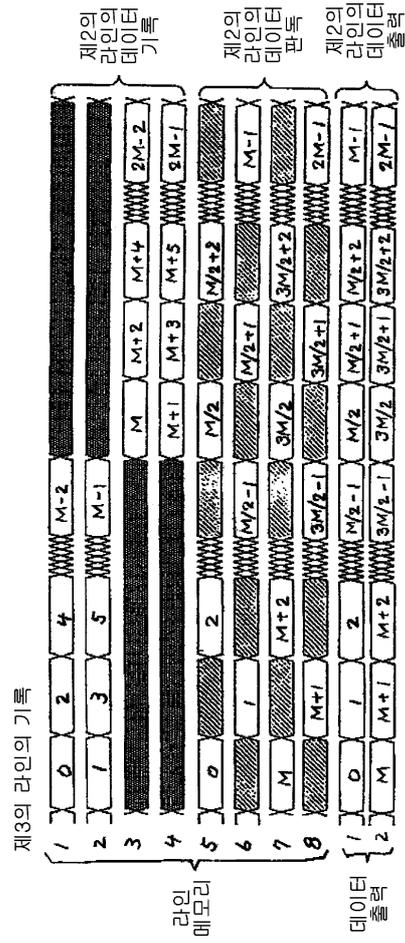
4d

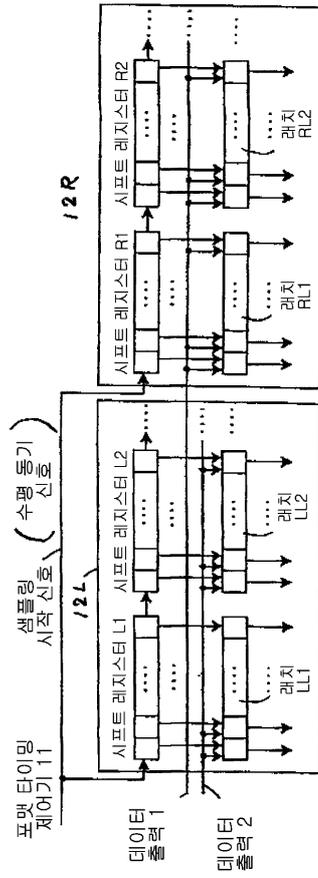


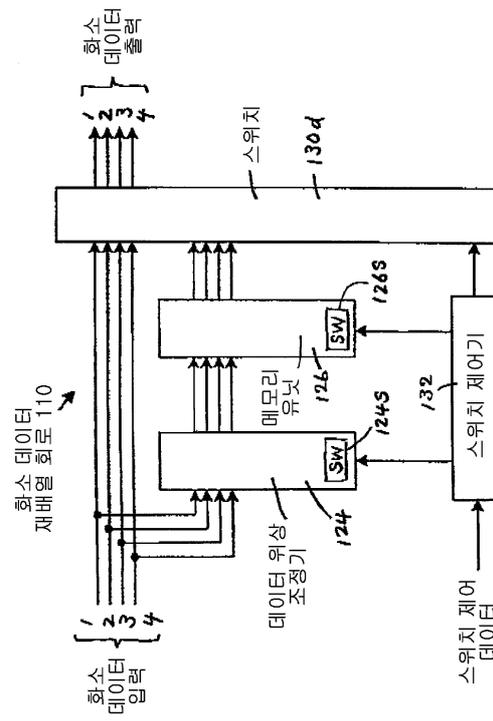
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 제1의 라인 데이터의 기록
 기록 동작 비실행
 판독 동작 비실행



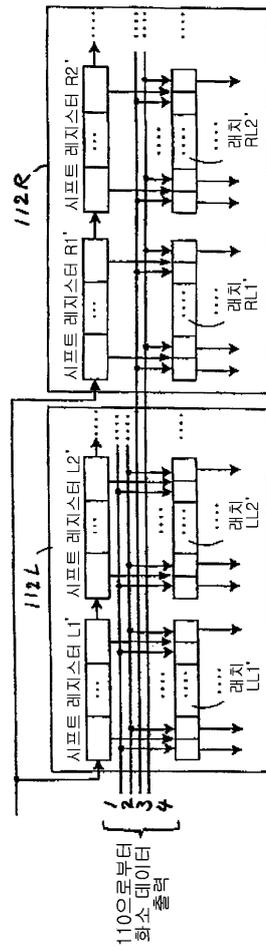




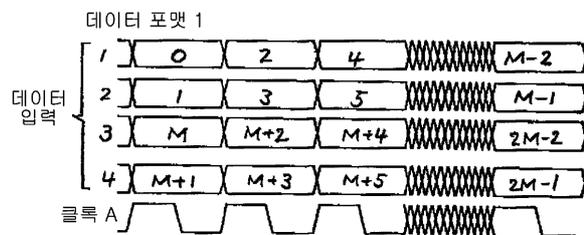




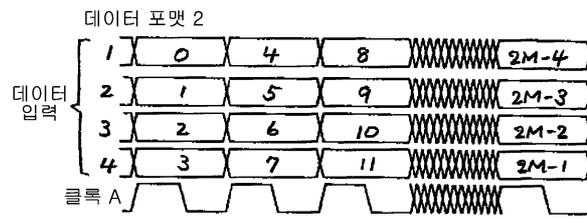
10



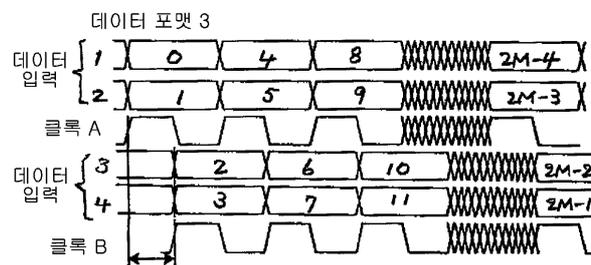
11a



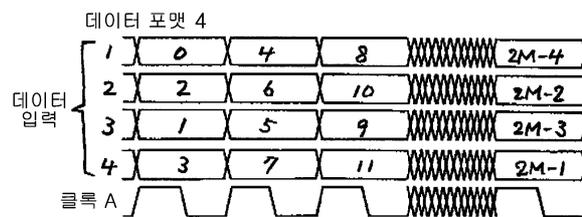
11b



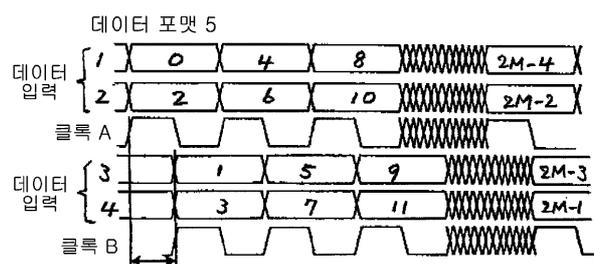
11c



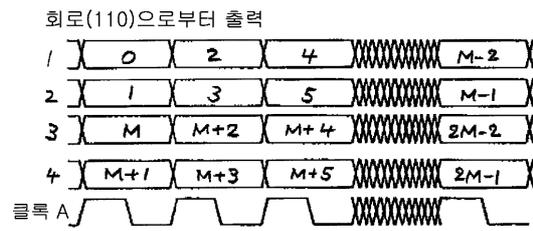
11d



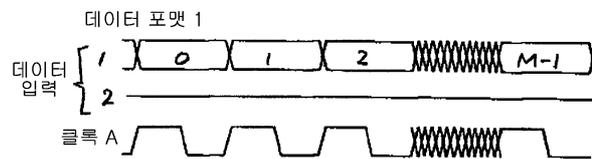
11e



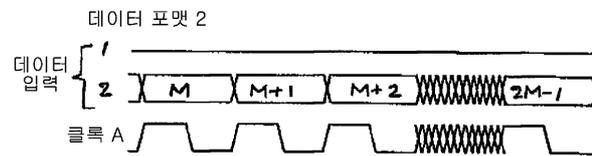
11f



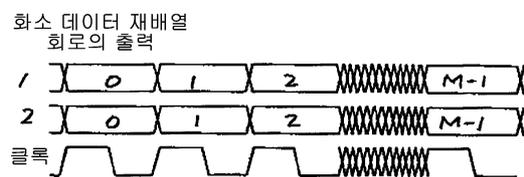
12a



12b

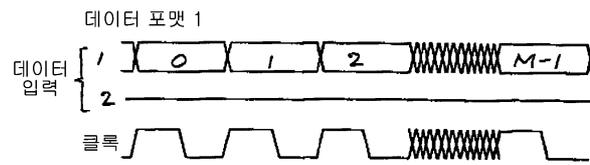


12c

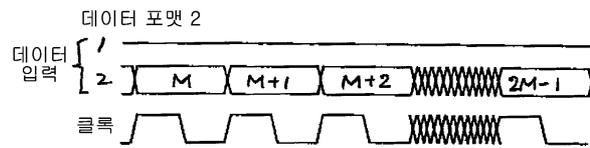


데이터 포맷1의 경우

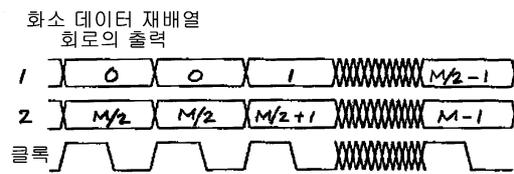
13a



13b



13c



데이터 포맷1의 경우

专利名称(译)	一种液晶显示单元，具有输入像素数据重排电路		
公开(公告)号	KR1020020081094A	公开(公告)日	2002-10-26
申请号	KR1020020020572	申请日	2002-04-16
[标]申请(专利权)人(译)	NEC液晶技术株式会社		
申请(专利权)人(译)	日元号技术可否让这个夏		
当前申请(专利权)人(译)	日元号技术可否让这个夏		
[标]发明人	ITO MASAHIRO 이토마사히로 TAKAMI KAZUHIKO 타카미카즈히코 OKUZONO NOBORU 오쿠조노노보루		
发明人	이토마사히로 타카미카즈히코 오쿠조노노보루		
IPC分类号	G09G3/36 G09G5/00 G09G3/20 G02F1/133		
CPC分类号	G09G5/006 G09G5/005 G09G3/3688 G09G2352/00 G09G3/3666		
优先权	2001117002 2001-04-16 JP		
其他公开文献	KR100470758B1		
外部链接	Espacenet		

摘要(译)

在液晶显示 (LCD) 面板单元中提供在LCD面板的第一和第二部分的半部分功能划分为相应分配的第一和第二的源极驱动器组的多个源极驱动器。提供了像素数据重新排序电路，其将输入像素数据重新排列为预定数据格式，以便适当地驱动LCD面板，而不管格式的不同输入像素数据。 N通道的像素数据起作用，使得它位于第一和第二源极驱动器组之前，并且像素数据重新排序电路接收2N-通过 (路径) (N是自然数) 像素数据并重新排列根据预定数据格式， 2N-像素数据的顺序通过，并且将重新排列的N遍的像素数据提供给第一源极驱动器组，并且重新排列的像素数据被提供给第二源极驱动器组。 LCD， 像素， 数据， 格式， 驱动程序。

