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(12) (B1)

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(22)	1999 01 05	(43)	2000 08 05

(73) 3 416

(72) 102 1207

(74)

:

(54) 가

가 , IC

가 1 2 1 ,
2 , 2 가 가

2

EMI, , , LCD

1			
2		1	
3	2	A - A'	.
4		1	IC
5		1	
6		2	
7		2	
8	9	3	
10		4	

(20) LCD (10) , (40) LCD (10)
R, G, B R, G, B
가 .

가 , (integrated circuit; IC) LCD , 가
가 IC(20a, 20b, 20c, 20d) (20)

1 2 1 2 1 2
1 2 1 2 1 2 1 2
90° 270° 가 , 1 2
,

1 2

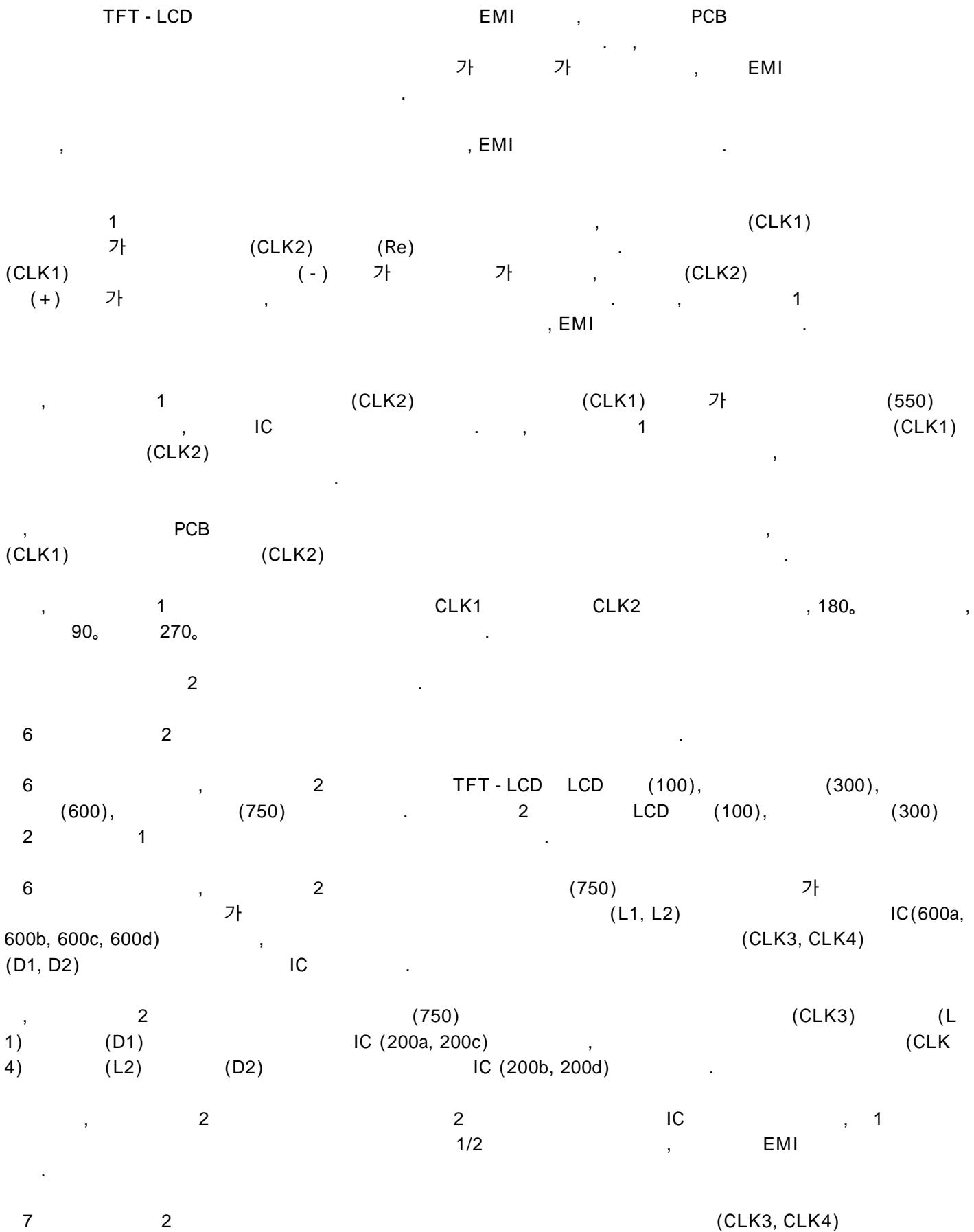
2 1 TFT - LCD .
2 , 1 TFT - LCD LCD (100), (200),
(300) (550) .
LCD (100) TFT (120) (110) ,
(110) 가 () R, G, B ()

TFT (120) (scanning line) (Gn) , 가 가
(Dm)
(pixel) , TFT (125) 가 TFT (125)
,
, 가 , (Cl)
(storage) (Cst) 가

(200) IC(200a, 200b, 200c, 200d) IC가
(tape carrier plate; TCP) (250a, 250b, 250c, 250d) .

2 , TCP(250a, 250b, 250c, 250c, 250d) IC가 , TCP P
 CB(500) IC IC TFT . TCP 3
 (127a, 127b, 127c, 127d)
 LCD PCB IC .

3 2 A - A'



7 , 2 CLK3 CLK4 가
 , (CLK3) IC(200a, 200c) .
 (CLK4) IC(200b, 200d) ,
 , 2 IC (triggering) 가

3 4 , . 8 9 3
 , (CLK3, CLK4) , (CLK3, CLK4) , 10
 4

8 , 3 CLK3 CLK4 가 . , CLK3 CLK4 가
 , () CLK3 CLK4 . ()
 , 8 IC

, 3 IC (triggering) 가
 가 IC

, 9 8 1/2 ,
 IC

4 , 10 CLK3 CLK4 가 90° 가 . 4
 , () 90° IC CLK3 CL
 K4

, 4 IC 3 가 . (triggering)
 가 IC

, 180° 가 . , 2 (CLK3, CLK4)
 , 90° 270°

, 2 (CLK3, CLK4) , 1 가
 (CLK1, CLK4)

가
EMI
가
EMI

(57)

1.

,
가 ;
가 ;
가 ;

,
1
90° 270°
2
가 1

2.

3.

1 ,

1

4.

1 ,

가 ,

1

2

5.

1 ,

가 ,

1

2

6.

1 ,

1

180。

가

7.

8.

9.

,

가

,

;

;

가

;

가

2

1 2
1 2

, 90° 270°

가

1 1 2
1 2

1 2

10.

9 ,

1

, 2

11.

10 ,

1 2

180。

12.

11 ,

1

2

90°

270°

13.

12 ,

1

2

180。

14.

13

1
2

1

, 2

15.

13

1 2

1 2

16.

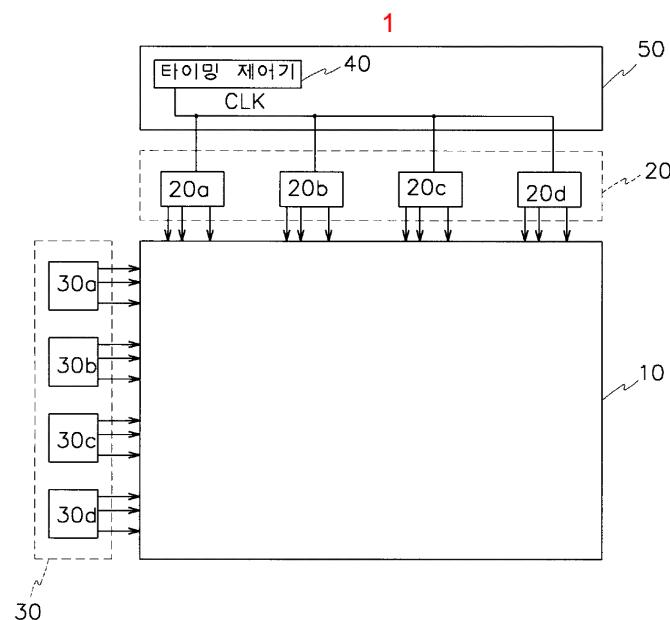
12

1 2

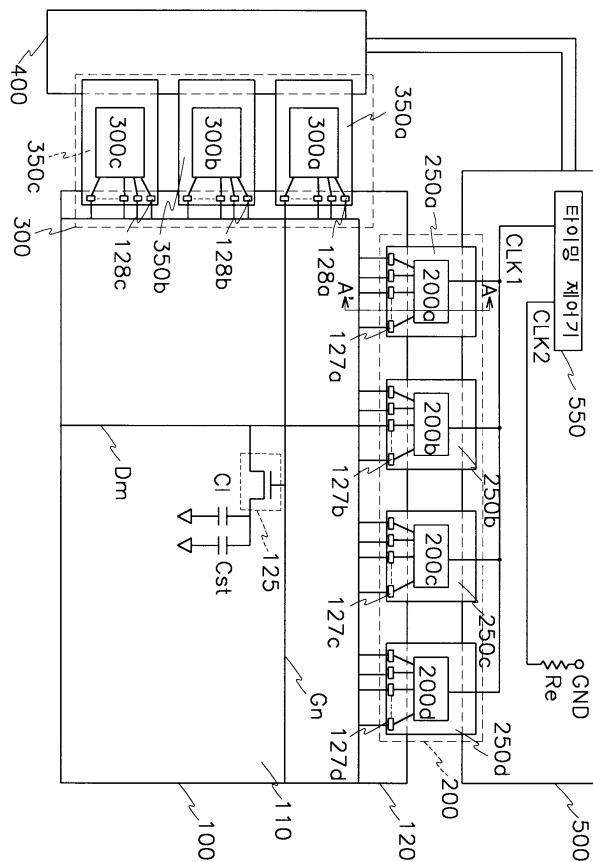
90。

270。

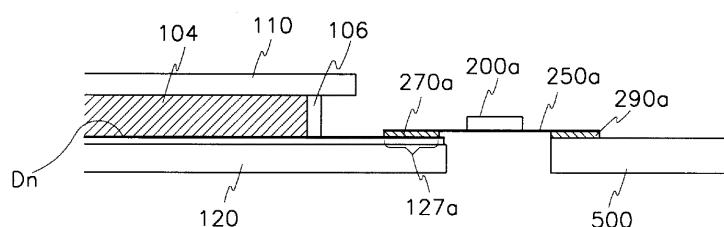
가



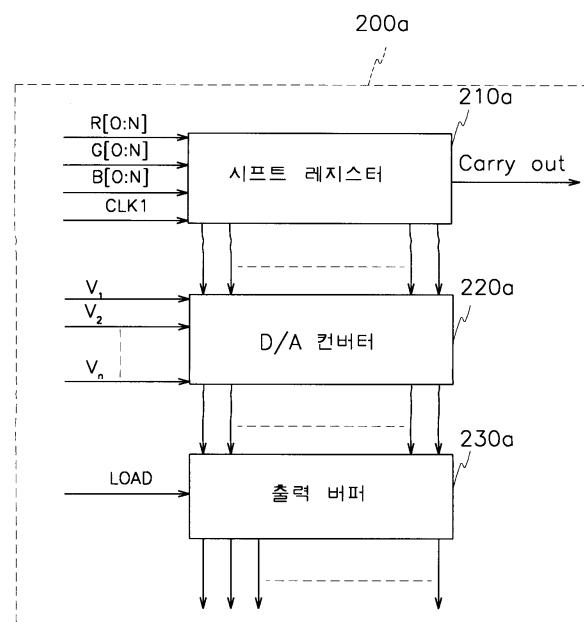
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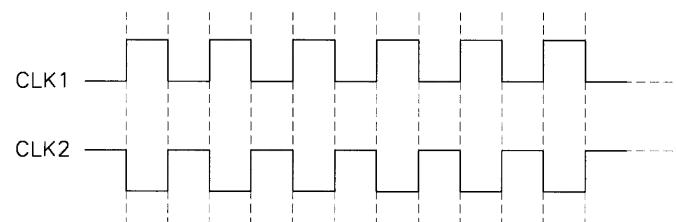
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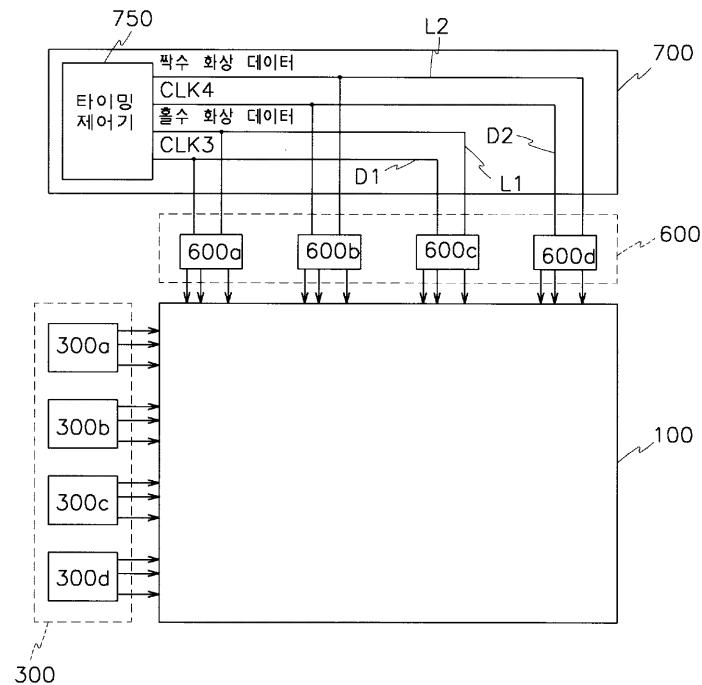
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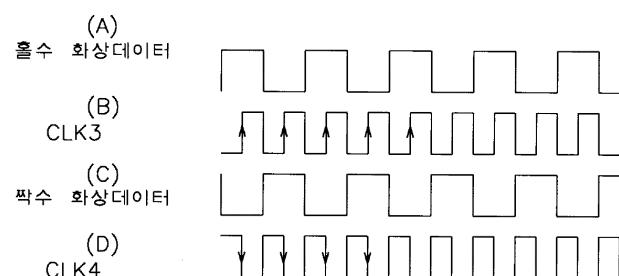
5



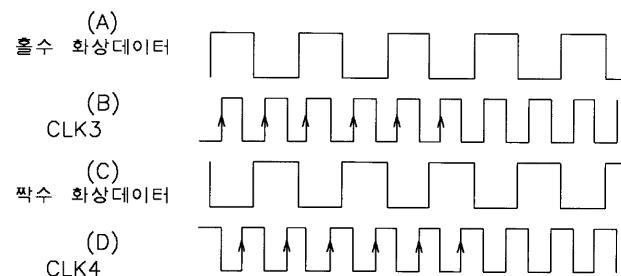
6



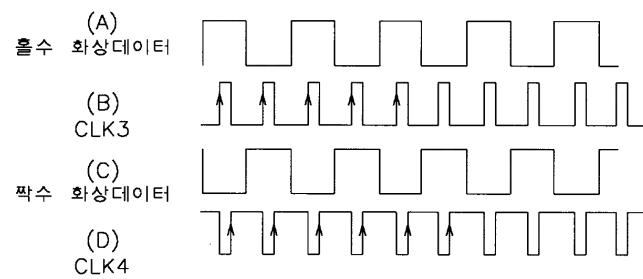
7



8



9



10

