

(19)
(12)

(KR)
(A)

(51) 。 Int. Cl.⁷
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(11)
(43)

10-2004-0046793
2004 06 05

(21)

10-2002-0074818

(22)

2002 11 28

(71)

.

20

(72)

489

가201

141

108/1410

(74)

:

(54)

act time)

,

,

,

,

.

3d

, , ,

1

2a

2b

3a	3e	1	
4		2	
5		3	
6a	4	1	1
6b	4	2	2
7a	5	1	1
7b	5	2	2
8a	8d		

40 : 41 :

42 : 43 :

44 : 45 :

46 :

(Liquid Crystal Display device : LCD) ,
(seal pattern) .

가 , LCD
(Liquid Crystal Display device), PDP(Plasma Display Panel), ELD(Electro Luminescent Display), VFD(Vacuum Fluorescent Display) 가 가 ,

hode Ray Tube) LCD가 가 , CRT(Cat

가

가

, 가 , ,

가 , ,

, 가 1, 2 , 1, 2

1 (TFT) ,
 ,
 가
 .
 2 (R,G,B) ,
 R,G,B
 1
 1, 2 (spacer)
 .
 가
 , 1 2
 ,
 ,
 ,
 ,
 가
 ,
 , 가
 가 가
 , 가
 가
 (N₂)
 가
 1
 1 (10) (P)
 (11) , (11)
 12) .
 (11) (12) (P)
 (16) , (11) (12) (12)
 16) 가 .
 (11) (13) ,
 (12) (13) (14)
) , (15b) (15a) , (15a)
 , (15b) (16) (17)
 , (10) ()
 , (10) (P) 가
 (black matrix) , / / (R/G/B)
 (16)

(10) (spacer)

2a

2a (10) (31) (32) (31)

(10) (33)

(leveling)

(32)

(33)

(32) (10) (10) (ru

bbing)

(seal dispensing)

2b

2b 가 (10) 가 (10) 가 (7)

(34)

(10) (34) (7)

가

가

가

tact time) 가

가

(가)

가

가

1

TFT

1, 2

1, 2

+ , × ,

1, 2

1

1

1

1

2

2

2

3

1

2

1

1

1

1

1

1

2

2

2

2

2

3a

3e

1

3a

(41)

(40)

(40)

(42)가

(42)

(41)

(41)

(42) + , × ,

(40) TFT

/

(polyamide)

(polyimide)

, PVA(polyvinylalcohol),

(polyamic acid)

, PVCN(polyvinylcinnamate), PSCN(polysiloxanecinnamate),

CeICN(celluloseci

nnamate)

(40)

가

TFT

(Ag)

(dot)

TFT

??

가

, IPS(In Plane Switching)

(Ag)

3b

(44)

3c

(41)

(42)

(40)

(43)

(41)

3d

(44)

(43)

(41)

(45)

(46)

3e).

(

1

(44)

(41)

3e

6

(41)

(41)

(40)

(46)

UV

UV

(41)

(46)

(46)

(40)

4

2

4

(40)

1, 2

(41a,41b)

1, 2

1, 2

(41a,41b)

(44a,44b)

1

(44a)

(40)

1

(41a)

1

(46a)

1

(44a)

2

(44b)

(40)

2

(41b)

2

(46b)

2

(44b)

2

(41b)

(46b)

가

2

(44b)

(44b)

2

(41b)

1b)

2

(46b)

5

3

5

(40)

1

2

(41b)

1

(41a)

1, 2

1

(41a,41b)

1, 2

(44a,44b)

1

(44a)

(40)

1

(41a)

1

(46a)

1

(44a)

2

(44b)

(40)

2

(41b)

2

(46b)

2

(44b)

6a

4

1

1

, 6b

4

2

2

6a

2

6b

(46a,46b)

, 1, 2

(44a,44b)

(43)가

, 1,

7a 5 1 1 7b 5 2
2 .

7a 7b 1 (44a) 2 1 (41a) 2
(43)가 , 2 (44b) 3 2 (41b) 3 (43)가
.

8a 8d .

8a , (1) (3) .
, (1)
,
, .
, (3) , , , .
, (1) (3) .
8b , (3) (7)
, (1) (5) (5) , (1) (3)
(7) (5) .
8c , (1) (3) .
, (5) (1,3) .
, (7) UV(Ultra Violet)
.

8d , UV (9) UV (7) .
(7) UV UV 120 1 .
, 8a 8d (7) 가 (7)
, (7) 가
.
, 가 , 가 ,
가 .

가 .

,
(tact time) .
, MMG(Multi Models on a Glass)
가 .

1.

;

;

;

2.

1

,

.

3.

1

,

TFT

.

4.

1

,

.

5.

1

,

.

6.

1

,

.

7.

6

,

1, 2

1,

2

.

8.

6

,

+ , × , ,

.

9.

1, 2

;

1

1

;

1

1

;

2

2

;

2

2

.

10.

9

,

TFT

.

11.

9

,

.

12.

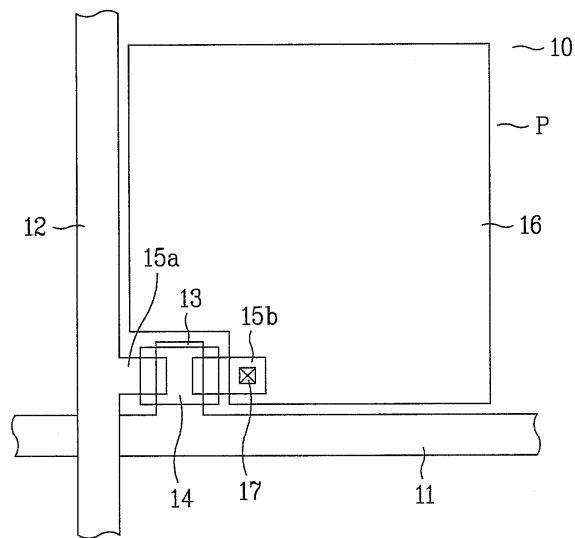
1

2

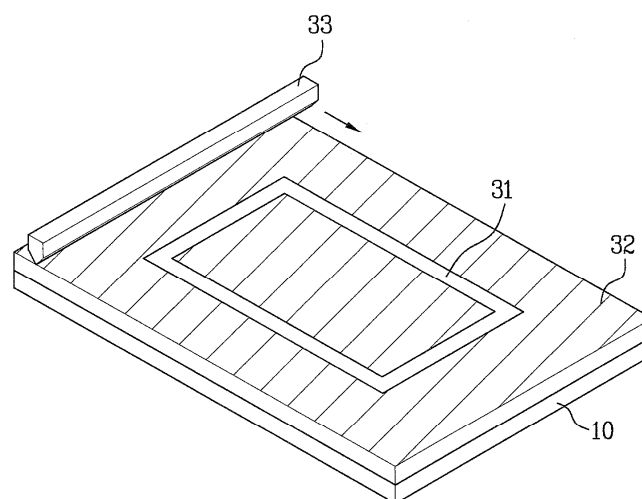
;

$$\begin{array}{ccccccc} 1 & & & & 1 & & ; \\ & 1 & & 1 & & 1 & \\ ; & & & & & & \\ 2 & & & & 2 & & ; \\ & 2 & & 2 & & 2 & \\ & & & & & & \end{array}$$

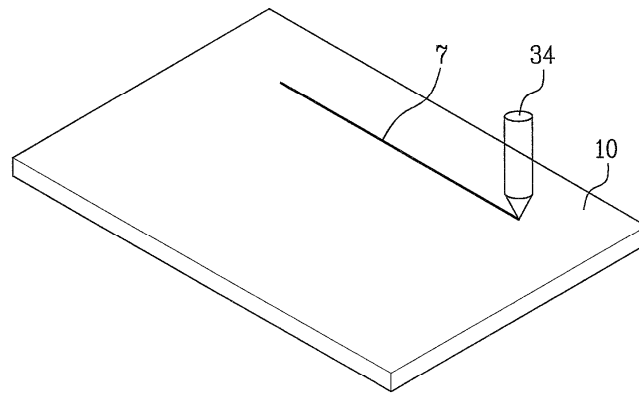
1



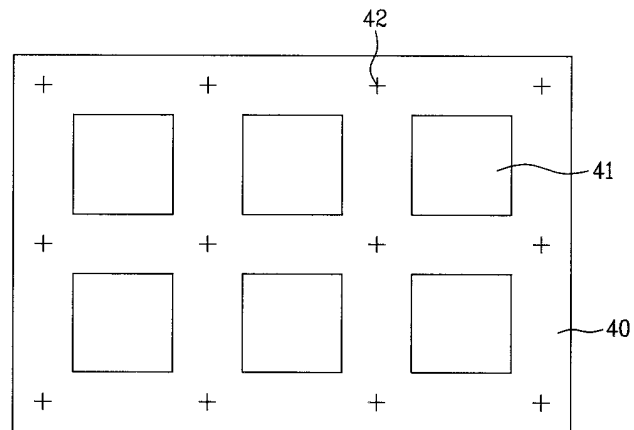
2a



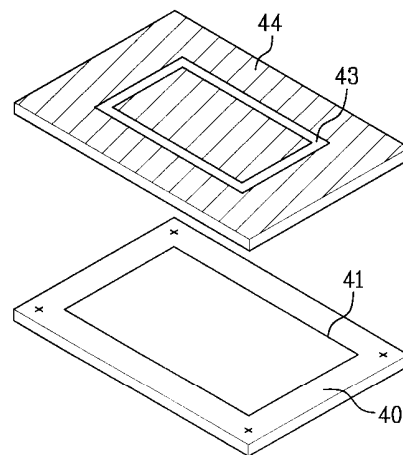
2b

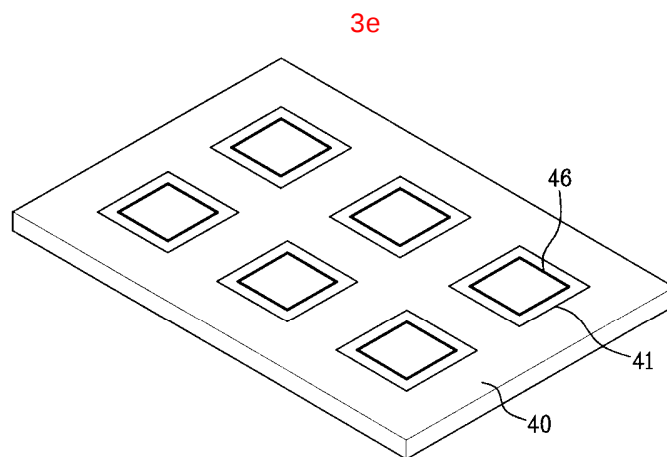
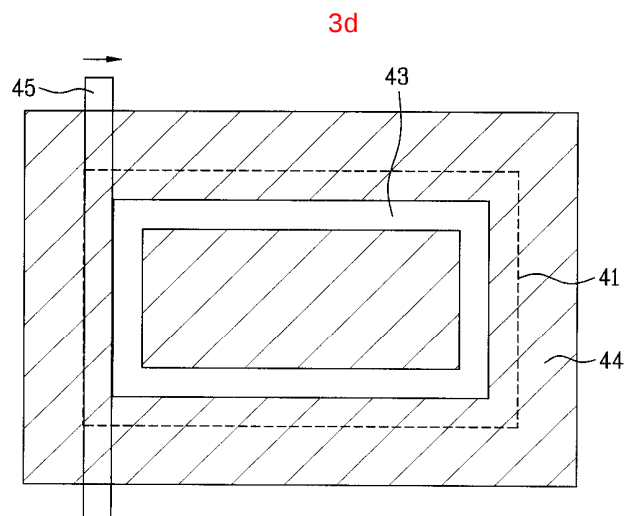
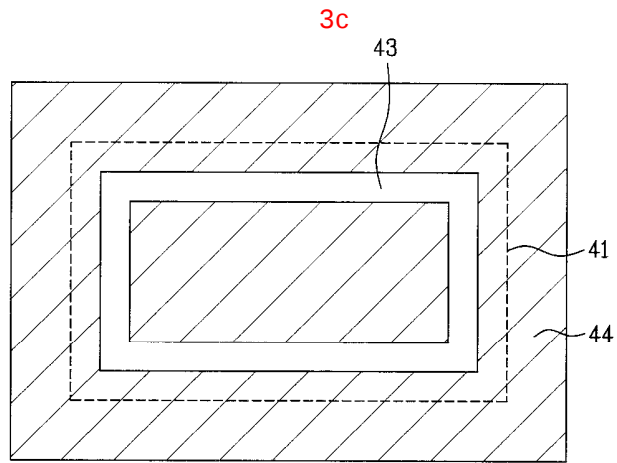


3a

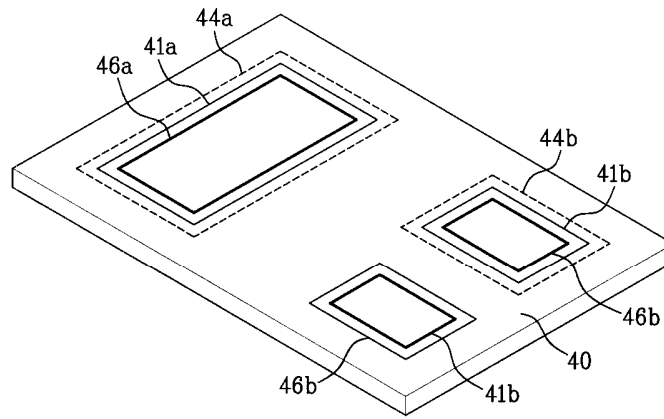


3b

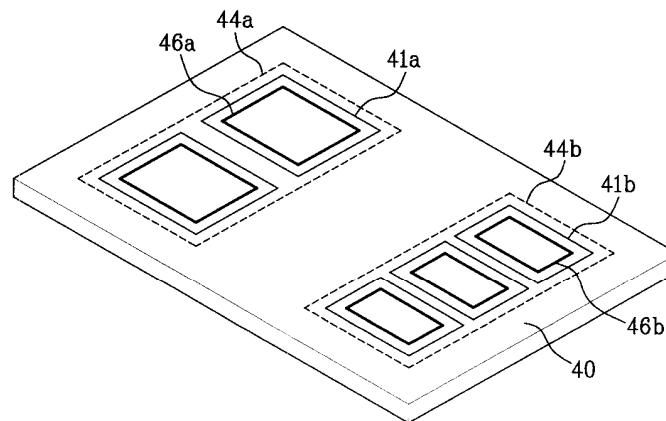




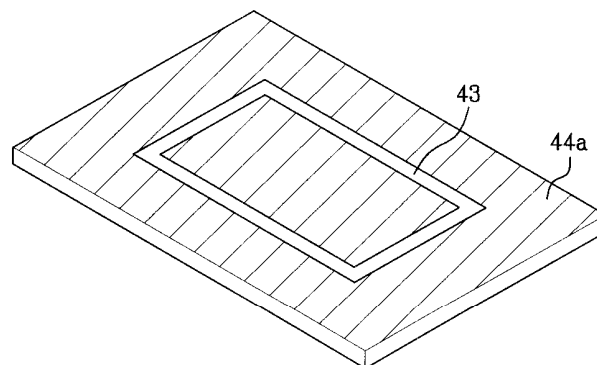
4



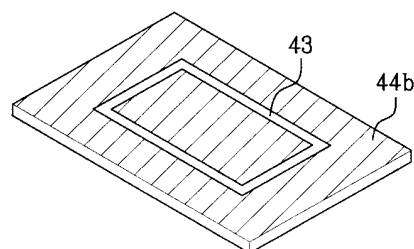
5



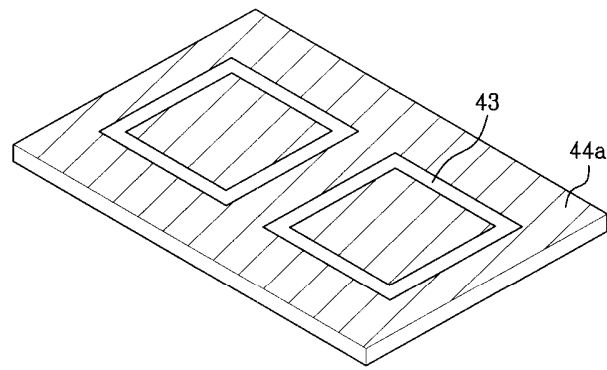
6a



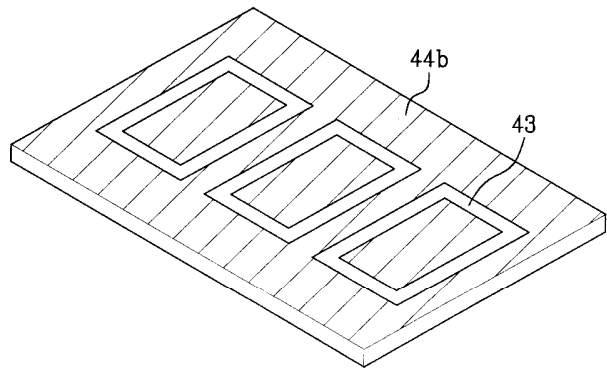
6b



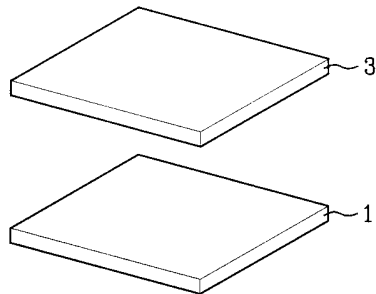
7a



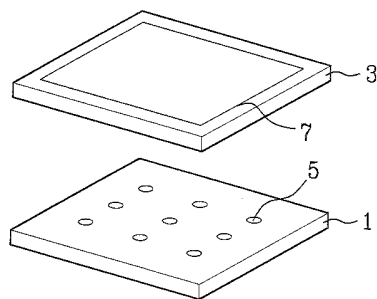
7b



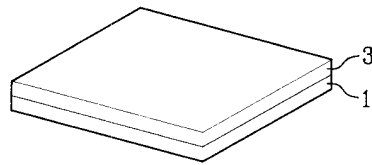
8a



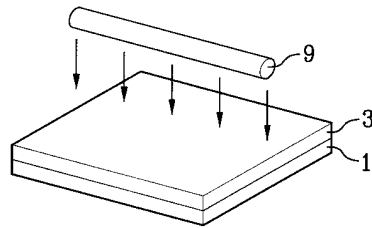
8b



8c



8d



专利名称(译)	形成液晶显示装置的纱线图案的方法		
公开(公告)号	KR1020040046793A	公开(公告)日	2004-06-05
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[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		
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IPC分类号	G02F1/1339 G02F1/1345 G09F9/00 G02F1/136		
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代理人(译)	金勇 新昌		
其他公开文献	KR100710162B1		
外部链接	Espacenet		

摘要(译)

本发明涉及一种形成液晶显示装置的实际图案的方法，该方法通过使用分割掩模有效地印刷实际图案来提高生产率并缩短大面积基板上的生产节拍时间，在所述至少一个液晶显示面板上设置具有开口的掩模的步骤，使用所述对准的掩模在与所述开口对应的液晶显示面板上打印实际图案，并且将掩模对准剩余的液晶显示面板，以在液晶显示面板上重复打印实际图案。图3d 指数方面 纱线图案，印刷，面膜，点胶

