

(19)
(12)(KR)
(A)(51) 。 Int. Cl. ⁷
H05B 33/10(11)
(43)2003 - 0027431
2003 04 07(21) 10 - 2001 - 0060676
(22) 2001 09 28

(71) 20 LG

(72) 3 575 - 25

(74) :

(54) -

- -

EL

1

; 3 2 가 ;

; , 가

7g

1 EL

2	1	EL	A - A'	.
3a	3g	2	EL	.
4a	4g	2	EL	.
5a	5d	EL		.
6a	6g		EL	
7a	7g		EL	
8		EL	X	
9		EL	Y	
10		EL	X - Y	

< >

4, 34, 44 : 6, 36, 46 :

8, 38, 48 : 10, :

12, 42 : 14, 40 :

16, 50 : 18, 52 : 1

20, 54 : 2 22, 56 :

60, 62, 64 :

, (Cathode Ray Tube), (Liquid Crystal Display), (Field Emission Display),
(Plasma Display Panel) - (Electro - Luminescence : , EL)

EL
EL EL 가 EL
가 가 가 EL
EL
EL 가 가
1 EL 2 1 A - A'
(10) (4) (10) EL (EL) (4)
(4) (12) (4) (12)
EL (EL) (10) (6) (6) 가 가
(8) (8) (4) (8) (6) (10)
(14) (10) (Overhag) (4) (6)
(6) 가 EL (EL) EL (EL) (4) 1
(10) 가 EL (EL)
(4) EL (EL)
3a 3g 1 2 EL 4a
4g EL
3a 4a (12) (4) (4) (12)
(ITO, IZO) 1 (Photolithography)
(4) (12) 3b 4b (EA) (6)
(EA) (6) 2
, 3c 4c (6) (4) (8)
(8) (6) 3
(8)
(6) (8) 3d 4d
(16)
, 3e 4e 1 () (16)
1 1 (18) 1 (18)

2, 3f, 4f, 2 () (16)
2 2 (20) 2 (20)
2 3

(18, 20) 3g 4g
(22) (22) 1 (10)
EL

5a 5d EL

5a, () (34)
(ITO, IZO) 1 (34)
(Photolithography)

(34) 5b (EA) (36)
(EA) 2

, 5c (36) (EA) (34)
(38) (38) (36) 3

(36) (38) 5d (40)
(40) ()
(40) ()
() EL

, EL EL
(8) 가 EL EL
, EL EL (4) (6) (8) (36) (38) 가
가 EL (34) (36) (38) 1 3 가,
가 EL 1 3 가
, EL

, EL
EL

, EL 1
; 2 가
;
3
;
;

가 가 .

Y 가 y, X n 가 Y, $nY + (Y - y)$.

X 가 x, Y n 가 X, $nX + (X - x)$.

가 Y, X Y 가 y, X 가 X, X X 가 x, $nY + (Y - y)$, Y n 가 Y $nX + (X - x)$.

가 . 1 3 -

EL ;

가 ;

가 ;

가

가 .

가

6a 10

6a 6g EL 6a

6g EL

6a 7a (42) (44) (44) (ITO, IZO)

1 (Photolithography) 1

5a EL (34) 1

(44) (42) 6b 7b (EA1, EA2) (46)
 . (EA1, EA2) (46)
 , EL
 EL 1 (EA1, EA2) 2 (EA2)

, 6c 7c (46) (44) (48)
 . (48) (46) 3
 , 3 (48)
 . 5c EL (48) 3
 , (48) 1 EL (8)

(46) (48) 6d 7d
 (50)
 , 6e 7e 1 () (50)
 1 1 (52) 1 (52)
 , 6f 7f 2 () (50)
 2 2 (54) 2 (54)
 2 3

(52, 54) 6g 7g
 (56) , (56) EL

, (44) (46) (EA1, EA2)
 가 EL (EL1, EL2)
 , EL (44) (38) E
 L
 EL

8 10 EL 1 EL (EL1)
 1 EL (EL2) . 1 2 EL (E
 L1, EL2) (46) (EA1, EA2) 2 (EL
 46) (EA1, EA2) , (,) EL (EL
 1, EL2)

, EL (EL1, EL2) EL
 Y Y, EL (EL) Y y 가 , 8 EL (EL1, EL2)
 (60) nY + (Y - y)((60) X
 . (60) 1 EL (EL1) (EA1) 2 EL (EL2) (EA2)

Y

$$\begin{aligned}
 & \text{, } 9 \quad \text{EL (EL1, EL2) X} \quad \text{X, EL (EL) X} \quad \text{x 가 ,} \\
 & (62) \quad \text{X} \quad \text{(62) } 1 \quad \text{EL (EL1)} \quad \text{nX+(X-x)(} \quad \text{, n EL} \\
 & \quad \text{(EA2) X} \quad \text{(EA1) } 2 \quad \text{EL (EL2)} \\
 & \text{, } 10 \quad \text{(64) X-Y} \quad \text{(64) Y} \\
 & \quad \text{nY+(Y-y)(} \quad \text{, n EL} \quad \text{X} \quad \text{nX+(X-x)(} \quad \text{, n EL} \\
 & \quad \text{(EA2) } 3 \quad \text{EL (EL3)} \quad \text{(EA3) X-Y} \quad \text{(EA1) } 2 \quad \text{EL (EL2)}
 \end{aligned}$$

$$\begin{aligned}
 & \text{,} \quad \text{EL} \quad \text{EL} \\
 & \quad \text{EL}
 \end{aligned}$$

가

(57)

1.

1

;

2

가

;

3

;

;

가

-

2.

1

,

가

가

-

3.

2 ,
 X ,
 Y 가 Y , Y 가 y , n 가
 $nY + (Y - y)$ - .

4.

2 ,
 Y ,
 X 가 X , X 가 x , n 가
 $nX + (X - x)$ - .

5.

2 ,
 X Y ,
 Y 가 Y , n Y 가 y , X 가 X ,
 X 가 x , n 가 ,
 X X $nY + (Y - y)$,
 Y Y $nX + (X - x)$ - .

6.

1 ,
 ,
 가
 - .

7.

1 ,
 1 3 - .

8.

;

가 ;

;

;

,

가 - .

9.

8 ,

가 - .

10.

9 ,

X ,

Y 가 Y, Y 가 y, n 가
 $nY + (Y - y)$ - .

11.

9 ,

Y ,

X 가 X, X 가 x, n 가
 $nX + (X - x)$ - .

12.

9 ,

X Y ,

X Y 가 Y, n Y 가 y, X 가 X,
X 가 x, n 가 ,

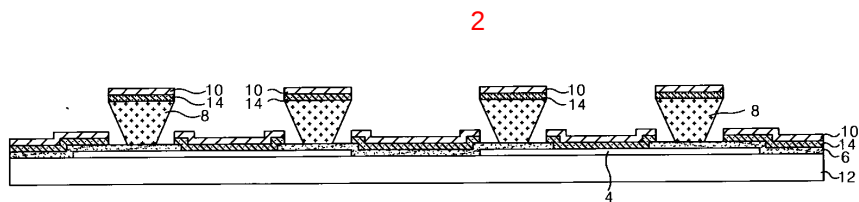
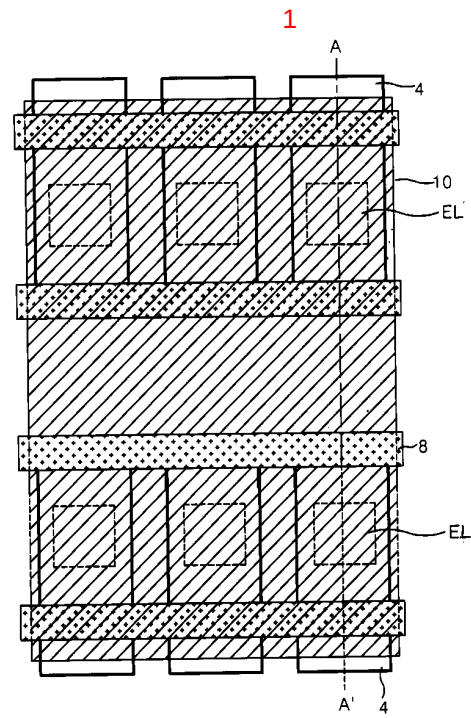
X X $nY + (Y - y)$,

Y Y $nX + (X - x)$ - .

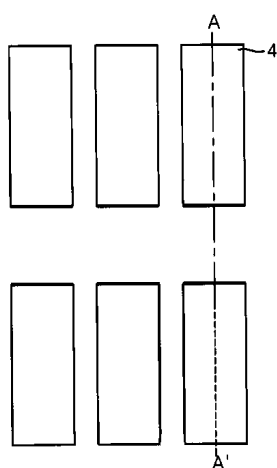
13.

8

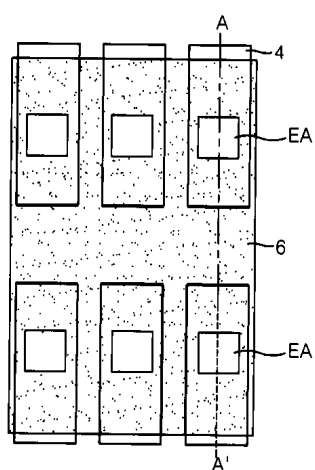
가



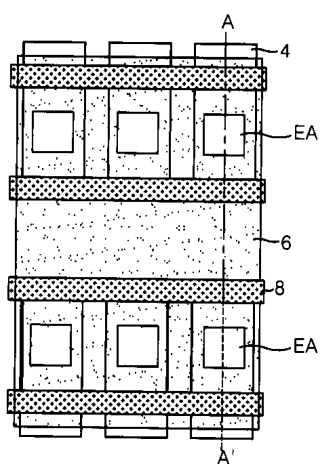
3a



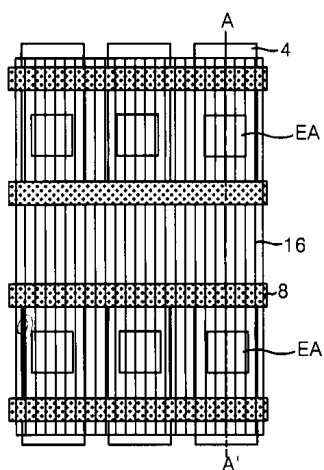
3b



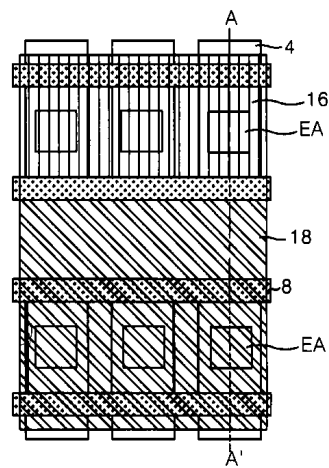
3c



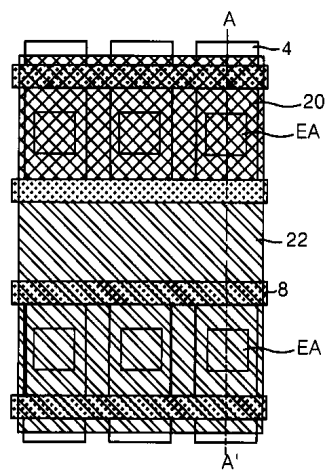
3d



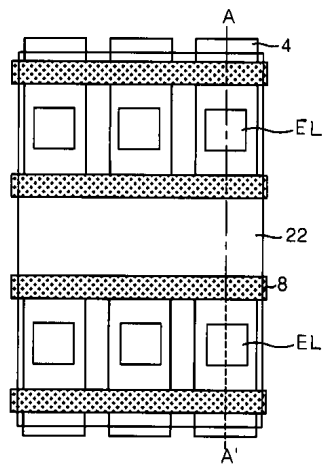
3e



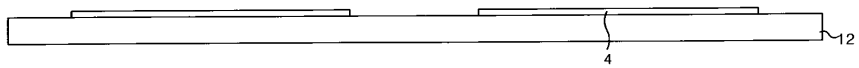
3f



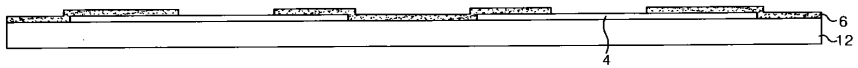
3g



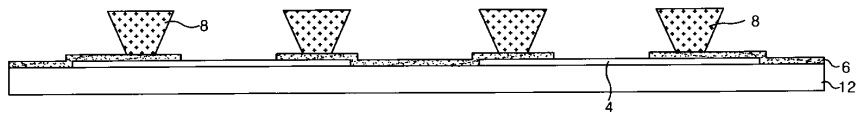
4a



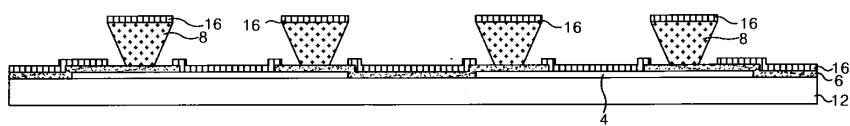
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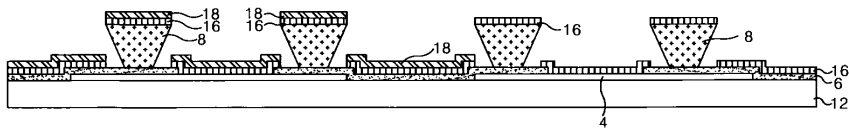
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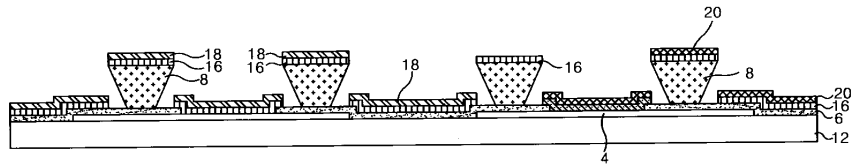
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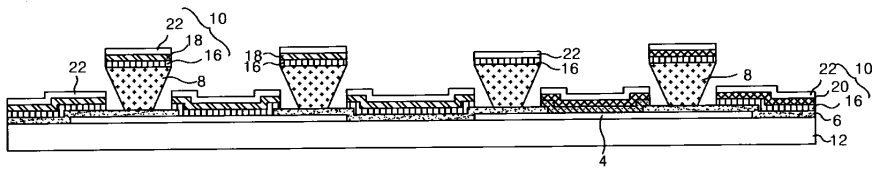
4e



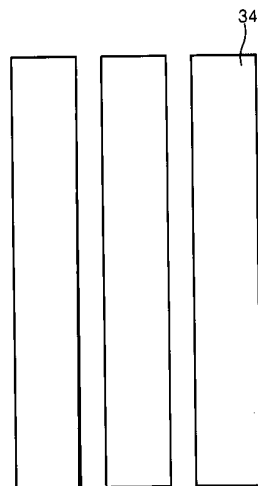
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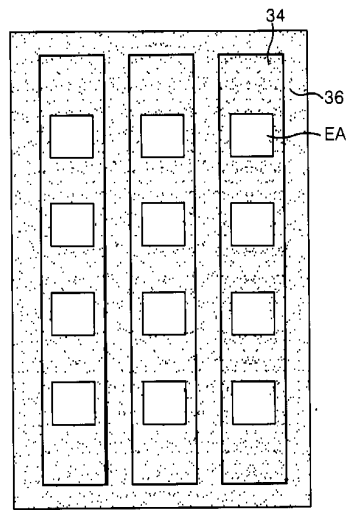
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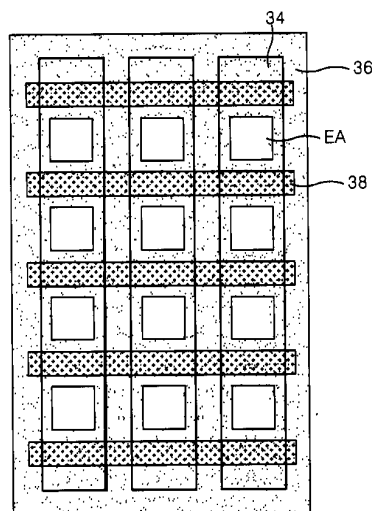
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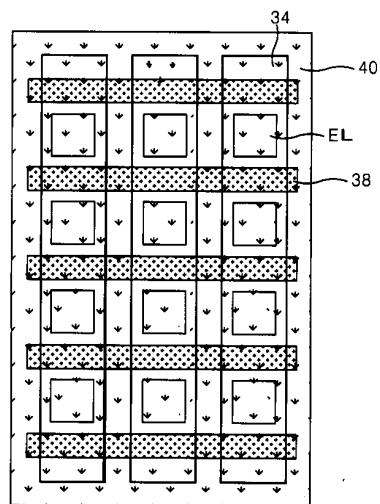
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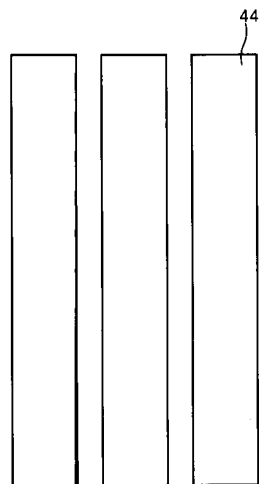
5c



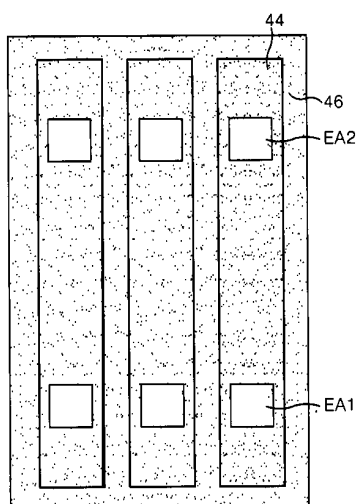
5d



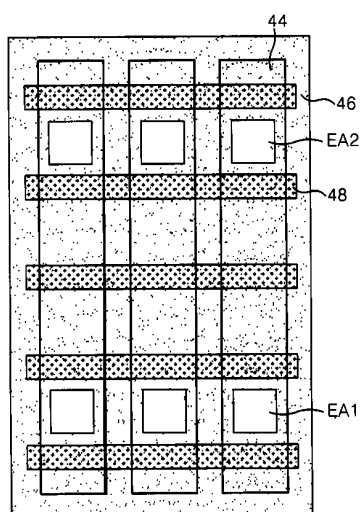
6a



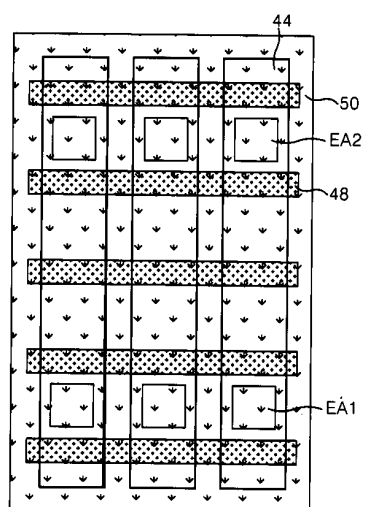
6b



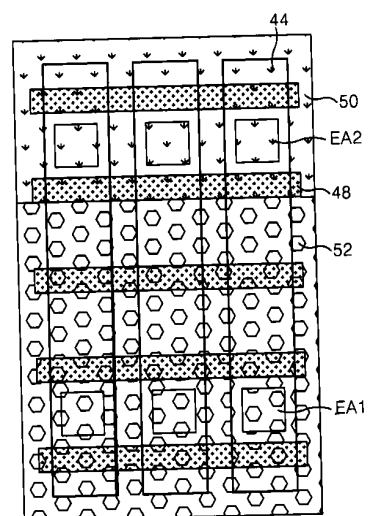
6c



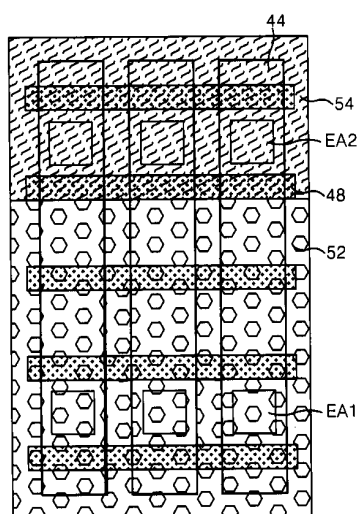
6d



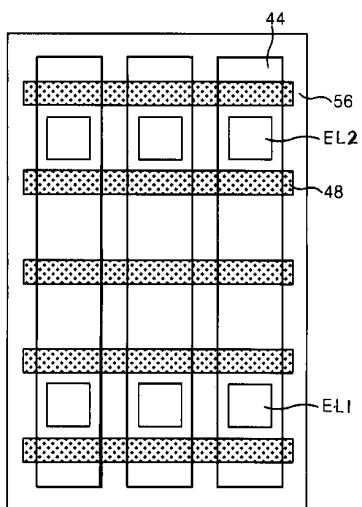
6e



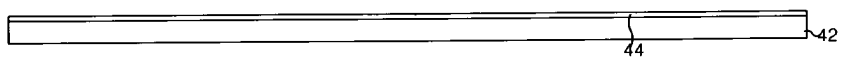
6f



6g



7a



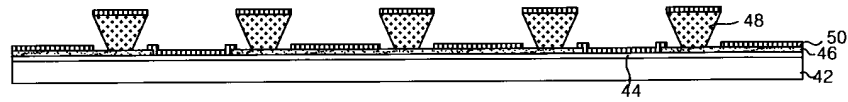
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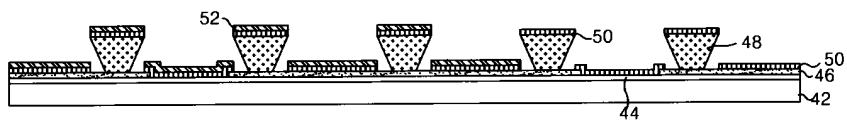
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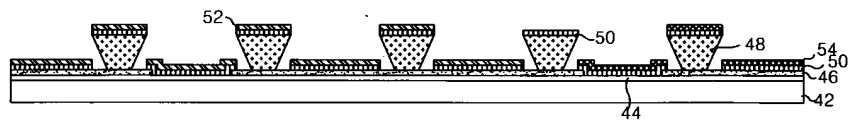
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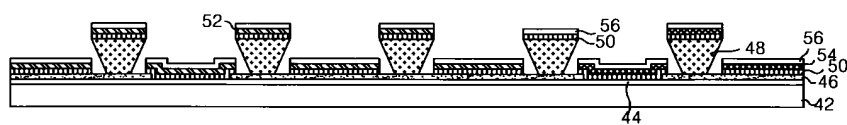
7e



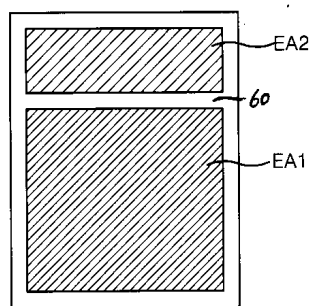
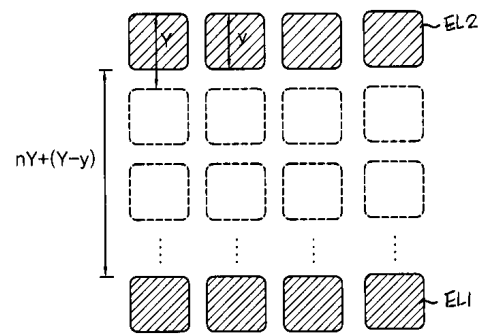
7f



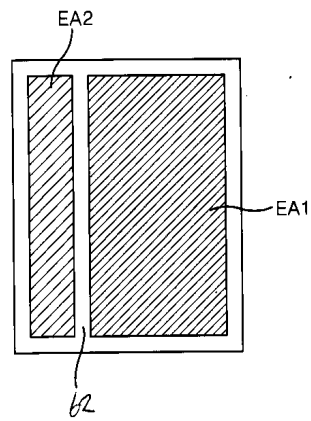
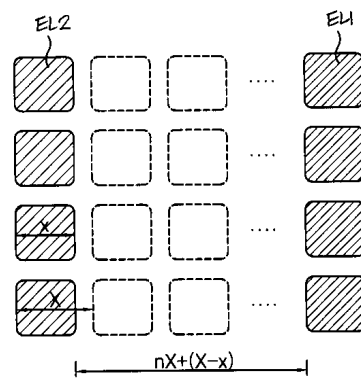
7g



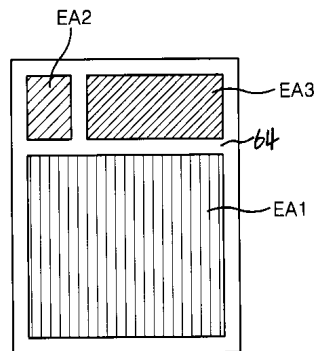
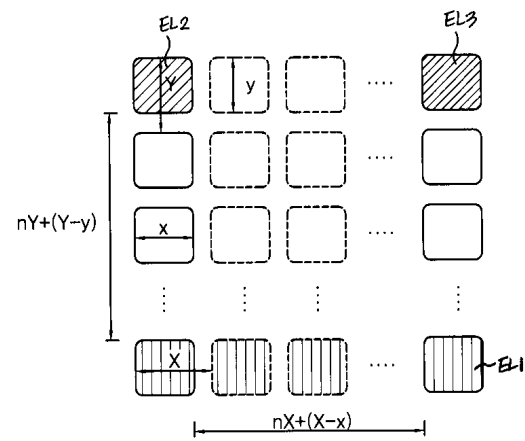
8



9



10



专利名称(译)	多色电致发光显示面板及其制造方法		
公开(公告)号	KR1020030027431A	公开(公告)日	2003-04-07
申请号	KR1020010060676	申请日	2001-09-28
申请(专利权)人(译)	LG电子公司		
当前申请(专利权)人(译)	LG电子公司		
[标]发明人	BAIK KWANGHEUM 백광흠		
发明人	백광흠		
IPC分类号	H05B33/10		
CPC分类号	H01L27/3211 H01L51/0011 H01L51/0021		
代理人(译)	KIM , YOUNG HO		
其他公开文献	KR100631115B1		
外部链接	Espacenet		

摘要(译)

本发明涉及使用在单色电致发光显示板制造中使用的掩模的多色电致发光显示板及其制造方法。在包括金属掩模和多色发光层的受影响的颜色区域的连续形成多色发光层的步骤中在前侧形成金属电极的步骤是为了形成制造方法的步骤，是透明电极使用基板上的第一掩模的线形：根据本发明的多色电致发光显示板的透明电极防止开口部分***之间的光干涉，其形成它限定了在形成的基板上的发光单元区域中，使用第二掩模部分地曝光透明电极，并且发光单元在不同的颜色上发光，在缓冲空间上形成绝缘层的步骤，以及形成步骤在缓冲空间上的分隔壁上，在使用第三掩模将绝缘层置于绝缘层上的间隔中的方向上具有相等的空间并且与透明电极交叉：包括绝缘层和分隔壁的前侧。准备发光单元用于确定开口部分的区域。在缓冲空间上形成绝缘层的步骤形成为具有相对不同的大区。

