



(US 6,091,195)

LED

4a 4d

, 5 10 μm

(21)

19)

(37)

(22),

(23)

; 2-

(meas-structure)

(4b)

(photolithographic patterning step);

(35)

ITO

OLED

(20)

(25)

(47)

(US 6,091,195)

L

E

L

, E  
EL

(medium)

)

EL

EL

(

(sheet)

(divergent body)

가

가

EL

가

1a 1d

2 1a

(intermediate material)

3

4a 4b 3

(imaginary apex angle)

1a 1d 2  
( )

(metal die)

, N x M(N M )

(1)  
(2)

(1a) (2). (2) (recess) (precursor)가 (400 ~ 700 nm)가 (1)가 5% 1.52가 (acrylate laquer) # 13 2200040029 { (Oss Coating), (Oss), } , UV-가

(spincoating) (2)(1b) (3) (wet silvering) 1.3 AF1600(Teflon AF1600) AF2400 (interstitial polymer)(4)(1c) (4)가 (2)가 (2)가

(polishing) (6) (1d), (5) (7)

EL 1 ( ), EL 2 ( ) (6) 2 1 (concentric ring) (concentrically)

가 EL EL

(3) (7) (planarising layer) (3) , EL , 가 가 (7)

(2) (5) EL (pitch) (dome) (dimension) , 가

(ray tracing) 3 (angular luminance) 'L<sub>v</sub>' (4a) 'r<sub>0</sub>' 'r' 'h<sub>r</sub>' 'h<sub>v</sub>' (4b) (4b) 가 가 가 가

가 , 가 가 , 가 가

( : LED ) ( : 가 ) , 가

EL 가 (EL) 가 ,

EL

가

, EL 가

가 .

(57)

1. {EL(electroluminescent)} 가 (7) EL  
(6) (diverging) (reflector)(5) (7) (5)

2. (5) (medium)(4) (4)  
(5) (6)

3. 2 (5) (2) (3)  
(divergent body)(2)

4. 3 (5)

5. 4 (6) (5)

6. EL (sheet)(1) (2) 가 (1) (2)  
(1) , EL

7. (2) (die) (1) , EL

8. (2) (1) 가 , EL

9. 8 (3) (2) , EL

10. 9 가 (4) , EL (2) (space)

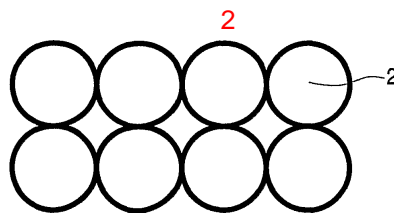
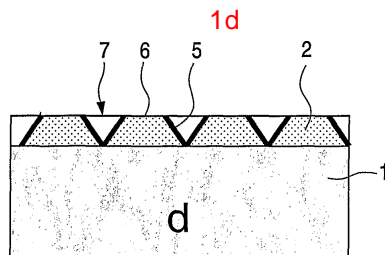
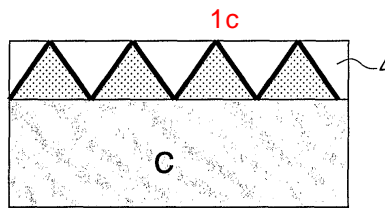
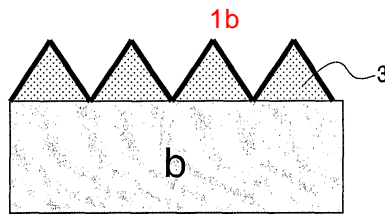
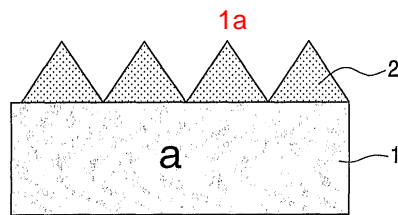
11. 10 (2) (6) , EL (4)

EL 가  
가, (5)

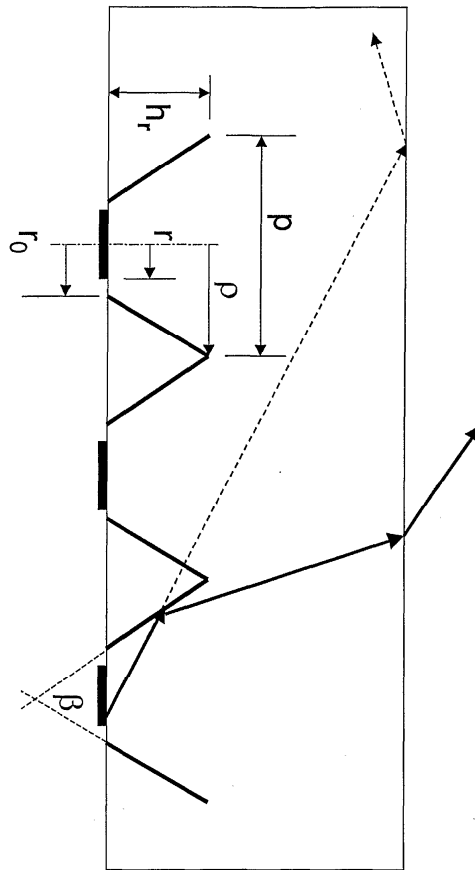
(6)  
EL

{EL(electroluminescent)}  
(reflector)(5)  
(7)

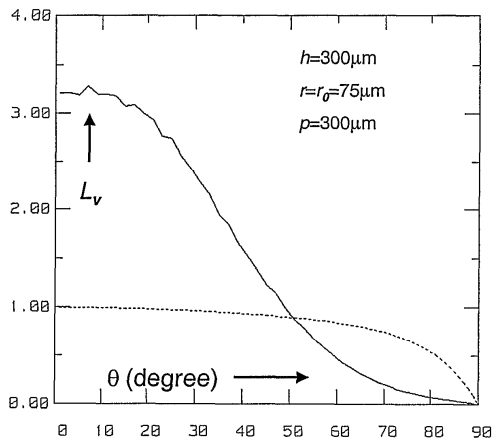
1d



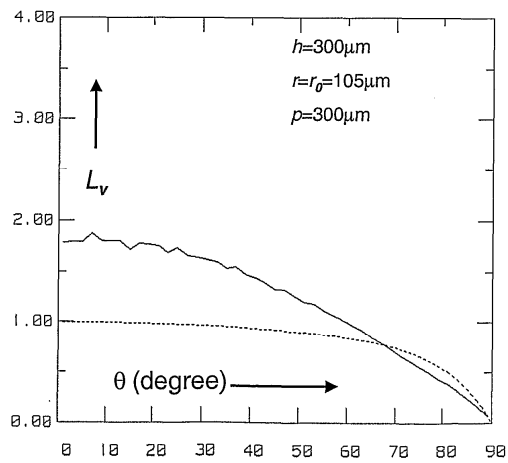
3



4a



4b



专利名称(译)	用于电致发光显示装置的基板和制造基板的方法		
公开(公告)号	<a href="#">KR1020030062320A</a>	公开(公告)日	2003-07-23
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[标]申请(专利权)人(译)	皇家飞利浦电子股份有限公司		
申请(专利权)人(译)	科宁欣克利凯恩菲利普斯日元.V.		
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[标]发明人	VANTONGEREN HENRICUS F J J		
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IPC分类号	H05B33/02 H01L33/60 H05B33/22 H05B33/24 G09F9/30 H01L51/52 H01L25/075 H05B33/10		
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代理人(译)	MOON , KYOUNG金		
优先权	2001202431 2001-06-25 EP		
外部链接	<a href="#">Espacenet</a>		

摘要(译)

本发明涉及用于电致发光[EL (电致发光)]显示装置的基板, 该基板包括前侧表面和后侧表面, EL元件布置在该后侧表面中。基板包括扩散到前侧表面的多个反射器(反射器)(5)。此外, 反射器(5), 相对于窄端部(6), 其具有的反面(7)的部分至少基本上形成在共面上。它可以用于传统工艺, 其中衬底跟随本发明的衬底制造EL器件。

