

(19)
(12)

(KR)
(A)

(51) 。 Int. Cl.⁷
H05B 33/22

(11)
(43)

10-2004-0093678
2004 11 08

(21)

10-2003-0026606

(22)

2003 04 26

(71)

36-12

(72)

1 5 APT524 201

106 307

881 114 1204

1603-6202

263-30

1065 A 302

2 136-53201

686-1 101 1203

(74)

:

(54)

'9-PPB'

가

2f

’ ’ ’ ’ ’ ’ ’ ’

1

2a 2f

3a 1 , 2f

3b 2

* *

20 : 21 :

22 : 23 :

24 : 25 :

26 :

’9-PPB’ 가 가 , 가
가 (12), (-) 가 (10) (11) , (10) , (+)
(12) (11) (11) (13) ,
가
ITO(Indium Tin Oxide) 2
10 μ Ωcm
, 5 ITO QVGA (Passive matrix) ITO 가
21% 가 , ITO 가

ITO
가

가

가

(N,N'- (-1-)-N,N'- -4,4'- 5,061,569
(α -NPD .)

α -NPD 가 (Tg)가 95

가

가

'4,4'- [N-(9-)-N-]

2a 2f

2a (20) (21)

(20) (20) (glass) (stripe) (21)

가
가 ITO IZO 가

(21) 100 ~ 10,000 100 ~ 2,000

(20) (21) (21) (2

2) (2b), (2c).

(22) (21) (22)

(23) (2d).

(23)

(22) (23) (21) (22) (24)

(2e), '9-PPB' 가 .

(24) (25) (25) (26)

(26) (2f), , (25) (26)

'9-PPB' .

가 , , 1 2

(36) 100 ~ 10,000 , 100 ~ 2,00

0 가 .

3a 2f A-A' , 1 3a ,

< 1 >

3a , (20); (20)

(21); (21) (20) (22); (2

1) (23); (21), (22), (23)

(24); (24) (25) (26) .

(stripe) , (20)

(21)

(20) (glass) , ,

, ITO IZO .

(21) (20) (22)

(contact hole) 가 (21) 가 (22) , (22) (2

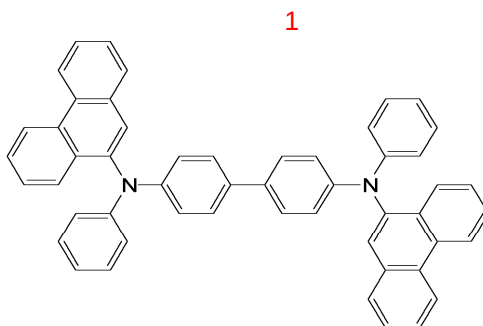
1) (23)

(21) , (22), (23)

(24) .

(24) 4,4'- [N-(9-)-N-] ('9-PPB')

가 , '9-PPB'



'9-PPB' , 1 , 2 9- N,N'-

(t-) , t- , o- .

< 2 >

a (25) , (26) 2 '9-PPB' (27) 2
(27) , ,
.,

< >

1) : 25mm × 75mm × 1.1mm 가 750 IT
O .

, () 10⁻⁷ torr ,
(,) 1 .

, Alq3 , (dopant) C545T 1%
, () Alq3 ,
.

2) : α -NPD .

3) , 6V 가 ,
, (Vb), 1 .

[1]

	(V)	(cd/m ²)	(cd/m ²)	Vb	(lm/W)
	6	883.5	50020	12	7.94
α -NPD	6	721.3	43650	11.5	6.12

* Vb : (burn out voltage)

, 1 , '9-PPB'
, α -NPD ,
(Vb) Vb .

, 가 , ,
'9-PPB' , ,
, ,
가 .

가 ,
.

(57)

1.

;
;
;

;
;

;

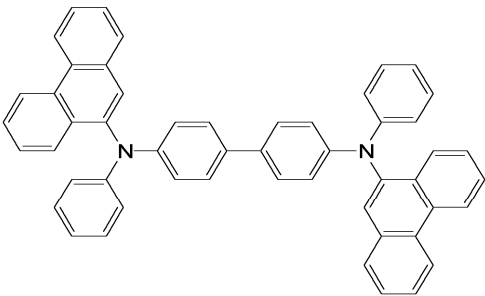
, , ;

,

;

가 ,

< >



2.

1 , ;

1 가 가 , .

3.

1 ;

1 ,
2 ;

2 ,
3 ;

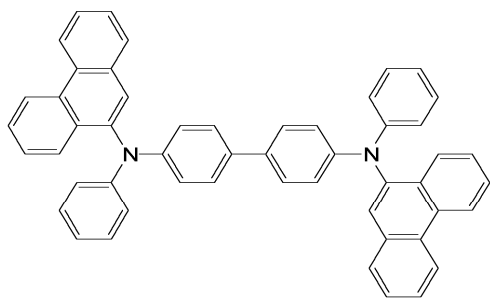
2 , 2 , 3 4 ;

4 ,
5

;

가 , .

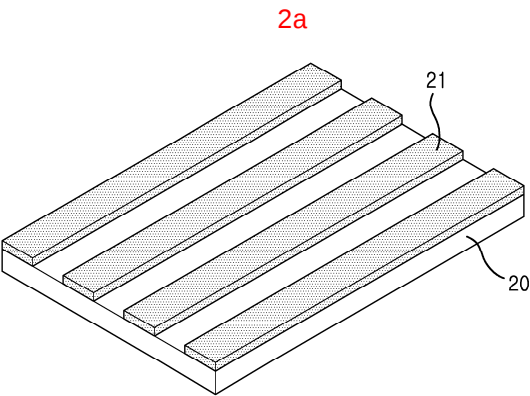
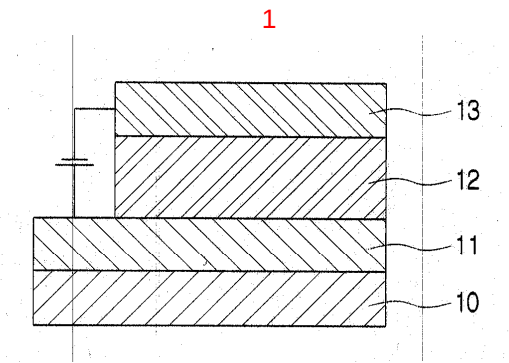
< >

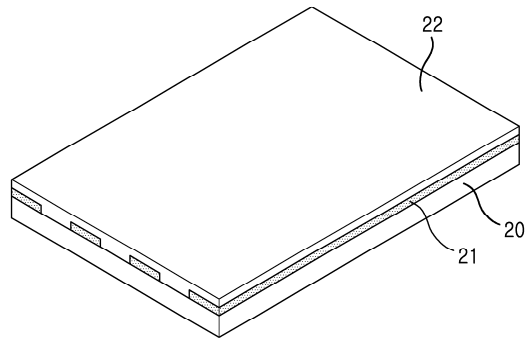
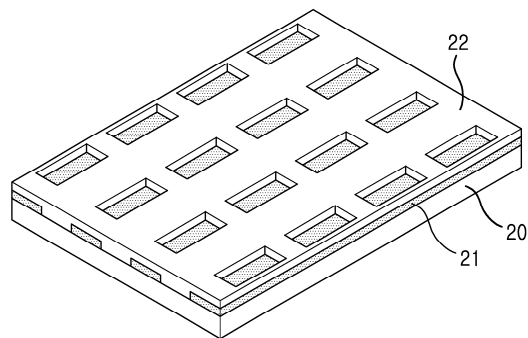
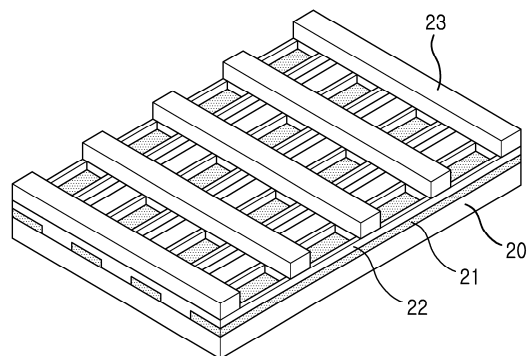
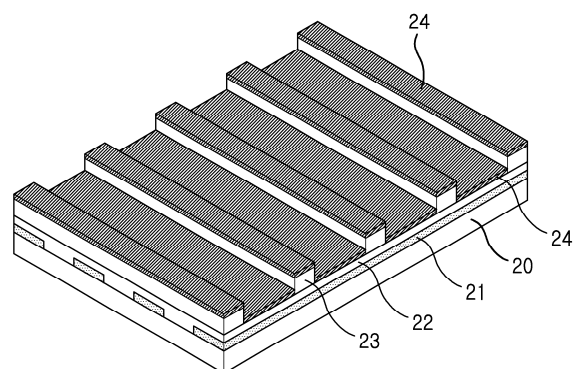


4.

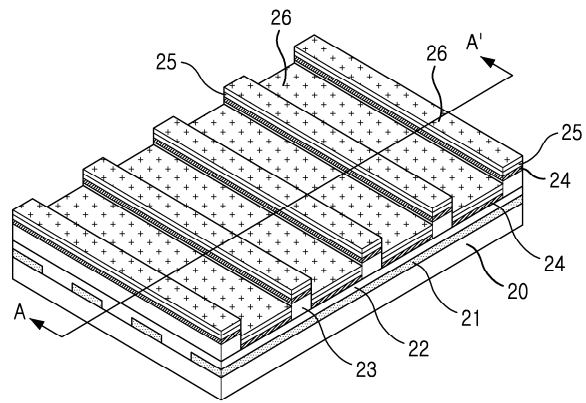
3 , 5 ;

가 , 3 가 , .

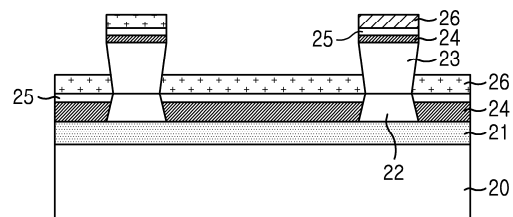


2b**2c****2d****2e**

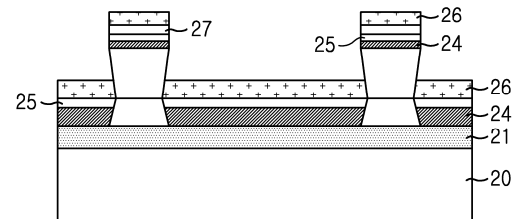
2f



3a



3b



专利名称(译)	使用胺化合物的有机电致发光显示面板及其制造方法		
公开(公告)号	KR1020040093678A	公开(公告)日	2004-11-08
申请号	KR1020030026606	申请日	2003-04-26
[标]申请(专利权)人(译)	有限公司ELM		
申请(专利权)人(译)	M. ELK公司		
当前申请(专利权)人(译)	M. ELK公司		
[标]发明人	BAEK YONGGU 백용구 KIM HEONGON 김헌곤 JUNG JOONHO 정준호 KIM AERAN 김애란 PARK JONGYEK 박종억 CHUNG KWANYONG 정관용 CHUNG KIWON 정기원 KIM JINYOUNG 김진영		
发明人	백용구 김헌곤 정준호 김애란 박종억 정관용 정기원 김진영		
IPC分类号	H05B33/22		
CPC分类号	H01L51/5253 H01L27/3281		
代理人(译)	CHO , TARM		
外部链接	Espacenet		

摘要(译)

本发明涉及有机电致发光显示面板及其制造方法。并且旨在增加面板的寿命，包括发光层和阳极电极等的热膨胀系数不匹配，以最大限度地防止在发光层中使用的有机材料对化合物层的损害在阳极电极和发光层或发光层和阴极电极的间隔区域的间隔区域上形成由9-PPB的耐热胺化合物组成，并防止器件的劣化和劣化防止由于热量或亮度等引起的发光效率。有机物，电场，辐射，显示器，面板，胺，化合物，。

