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2002 10 09(21) 10 - 2001 - 0015965  
(22) 2001 03 27

(71) 7 1661 - 4

(72) 358 101 1903

(74)

:

(54)

가

50~150:100%

EL

가

가

EL

1

, EL, ELECTROLUMINESCENCE

1

2 EL

- -

1 - 2 - 3 -

4 - 5 - 6 - 7 -

EL (Electroluminescence sheet ; 'EL ' ) 가 , , , .

가 EL Electroluminescence 가 1m/m .

EL PE (薄) (ELCHING)

1:4 ( (ZnS) ( ) 3:1 )

120~200 EVA 가 .

EL 102932 ( 96 - 533 ) 가 211326 가 EL 가 3~6

EL 가 가 가 .

EL

가

, 2 (4)

(pink)

가

가 60

(candler)

가

가

가

가

가 가 EL

가

EL

500~1,000 /cm<sup>2</sup>

가

가

가

EL

(1) (5) (3) (4) ,  
 (6) (2) (7)  
 (EL ) (4)

(Blue) 45~80%, 10~30%, U · V (ultra violet ; )  
 5~30%, U · V 5~30%, 2~7%

(Red) 45~80%, 10~30%, U · V 5~30%, U · V  
 5~30%, 2~7%

( ) ( ) ( 50 ~250 )  
 1 가 ( ) 가

( ) ( ) 150~350 (Mesh) ,  
 100:5~50%  
 U · V U · V 가 ,  
 50~150:100%

$\text{CaS}$  ( )  $\text{ZnF}_2$  ( )  $\text{GdF}_3$  ( 가 ) 100:5 10% , 가  
 ( )  $\text{EuCl}_3$  ( ) 100:1 10% ( , 가 5% - 10%가  
 ) 가 30 40% EL 5cm 가 (

)가 .  
 100:10 - 30%  
 가 ,  
 가 ,  
 .

$U \cdot V$   $U \cdot V$  가 ,  $U \cdot V$   
 가

,  $U \cdot V$  (Amine)  $U \cdot V$  가  $U \cdot V$   
 ,  $U \cdot V$  가  $U \cdot V$  가  
 (4) 가

$U \cdot V$  가  $U \cdot V$   
 ,  $U \cdot V$  (bis< 1,2,2,6,6 - PENTAMETHYL - 4 - PIPERIDI  
 NYL> sebacate) (METHYL< 1,2,2,6,9 - PENTAMETHYL - 4 - PIPERIDINYL> sebacate)가  
 $U \cdot V$  .

,  
 , 50~150:100%

, P.V.C 40~80%,  $U \cdot V$  5~30%,  $U \cdot V$  5~30%, (Die  
 thylphthalate, 'DOP' ;  $\text{C}_6\text{H}_4 < \text{COOC}_8\text{H}_{17} >_2$ ) ( 'DBP' ;  $\text{C}_6\text{H}_4 < \text{COOC}_4\text{H}_9 >$  )  
 1~3%, 3~7%

,  
 $V$  ,  $U \cdot V$   $U \cdot V$   $U \cdot V$   $U \cdot V$   
 ,  $U \cdot V$  가  $U \cdot V$  가  $U \cdot V$

가 (DOP) (DBP)

|                    |                                           |                                               |                            |                         |
|--------------------|-------------------------------------------|-----------------------------------------------|----------------------------|-------------------------|
|                    |                                           |                                               | 100;50~150%                |                         |
|                    | 가                                         |                                               |                            | (1)                     |
|                    | (4)                                       | .                                             |                            |                         |
| ,                  | (1)                                       | (5:                                           | )                          | .                       |
|                    | 60~80%, DOP                               | DBP                                           | 5~10%,                     | 15~30%                  |
|                    | .                                         |                                               |                            |                         |
|                    | ,                                         |                                               |                            | 100:50~150              |
| %                  | (5)                                       | .                                             | (1)                        |                         |
|                    |                                           |                                               | (4)                        |                         |
| ,                  | (1)                                       | (6)                                           | 가                          | .                       |
|                    | (In <sub>2</sub> O <sub>3</sub> ) 30~45%, | (SnO <sub>2</sub> ) 1~10%,                    | (H <sub>2</sub> O) 30~45%, | 15~30%                  |
| 1                  | .                                         |                                               |                            |                         |
|                    | 30~80%,                                   | 20~50%, DOP                                   | DBP                        | 5~20%                   |
| 2                  | .                                         |                                               |                            |                         |
| ,                  | 1                                         | 2                                             | 100:5~30%                  |                         |
|                    | .                                         |                                               |                            |                         |
|                    |                                           |                                               | ,                          | 100:50~150%             |
| (6)                | .                                         |                                               | (1)                        |                         |
|                    | 1                                         |                                               |                            | .                       |
|                    | .                                         |                                               |                            |                         |
|                    | (InCl <sub>3</sub> ) 5~15%,               | (H <sub>2</sub> O) 30~45%,                    | (Isopropyl - Alcohol;      | 'IPA'                   |
| <sub>2</sub> CHOH) | 30~45%,                                   | (SnCl <sub>4</sub> 5H <sub>2</sub> O) 15~25%, | (HCl) 3~10%                | 1 ; < CH <sub>3</sub> > |
|                    | .                                         |                                               |                            |                         |
|                    | 30~80%,                                   | 20~50%, DOP                                   | DBP                        | 5~20%                   |
| 2                  | .                                         |                                               |                            |                         |
| ,                  | 1                                         | 2                                             | 100:5~30%                  |                         |
|                    | .                                         |                                               |                            |                         |
|                    |                                           |                                               | ,                          | 100:50~150%             |
| (6)                | .                                         | (6)                                           | (1)                        |                         |
|                    | ,                                         | 가                                             |                            |                         |

, (1) (3) .  
 P DBP 5~10%, (pigment) 40~55%, 3~7% 40~55%, DO  
 50~150% (1) 100:  
 (5) .  
 , (4)  
 , (3) 가  
 , (4), (3),  
 (7) U · V 가 (2) EL 가 U · V 가 (5) U · V 가  
 (3) (1) (5) (3) 가 300~500 μ  
 (3) 가 , (3)  
 (5), (6), (7) EL (3), (4),  
 1  
 , 1.0 0.3m/m (1) (2) (3) (4)  
 , (4)  
 5%, U · V 15%, 3% 55%, 12%, U · V 1  
 55%, 12%, U · V 15%, U · V 15%, 3%  
 1 가 50 250  
 250  
 100:40%

%, U · V 15%, (DOP) 2%, 5% 63%, U · V 15

100:100%

(4)

2

0.1 0.3m/m (1) (2) (3), (4) 2

(5)

70%, (DOP) 10%, 20%

, 100:100%

(5)

3

0.1 0.3m/m (1) (2) (3), (4) (5)

(6)

3

1 35%, 8%, (H<sub>2</sub>O) 35%, 22%

60%, 30%, (DOP) 10% 2

1 2 100:20%

, 100:80%

(6)

4

0.1 0.3m/m (1) (2) (3) 4

(3)

45%, 45%, (DOP) 6%,

4%

, 100:80%

(3)

5

0.1 0.3m/m (6) (1) (2) (3), (4) (5)  
(7) , (7) .

,

(4) 가 가 가  
가 가  
EL .

(1) (2) (6) 가  
(4) (5), (7) 가  
EL .

(7) (6) (5)  
(6) (5) (4) ,

,

(5) 가 가 가 EL 가 ,  
가 .

,

가  
EL ,  
가 가 가 ,

(57)

1.

( ) ( ) 가  
50~150:100% ,

2.

1 ,

( ) 45~80%, 10~30%, U · V 5~30%, U · V  
 5~30%, 50 ~150 2~7% 1 가 150~350 ,

3.

1 ,

( ) 45~80%, 10~30%, U · V 5~30%, U · V  
 V 5~30%, 50 ~150 2~7% 1 가 150~350 ,

4.

1 ,

( ) ( ) 100:5~50  
 % ,

5.

1 ,

(DOP) , P.V.C 40~80%, U · V 5~30%, U · V 5~30%,  
 1~3%, 3~7%

6.

50 150% : 100%

7.

6 ,

15 30% 60 80%, (DOP) 5 10%,

8.

6 ,

· V 5 30%, (DOP) 1 3%, 40 80%, U · V 5 30%, U  
 3 7%

9.

50~150%:100%

10.

9

( $\text{In}_2\text{O}_3$ ) 30~45%, ( $\text{SnO}_2$ ) 1~10%, ( $\text{H}_2\text{O}$ ) 30~45%, 15~30%  
 5~20% 20~50%, D  
 100:5~30%

OP DBP  
2

11.

9

( $\text{InCl}_3$ ) 5~15%, ( $\text{H}_2\text{O}$ ) 30~45%, ( $<\text{CH}_3>_2\text{C}$ )  
 HOH) 30~45%, ( $\text{SnCl}_4 \cdot 5\text{H}_2\text{O}$ ) 15~25%, (HCl) 3~10% 1  
 30~80%, 20~50%, DOP DBP 5~20%  
 2 1 2 100:5~30%

12.

9

· V 5 30%, (DOP) 1 3%, 40 80%, U · V 5 30%, U  
 3 7%

13.

50 150%:100%

14.

13

(pigment) 40 55%, 40  
 55%, (DOP) 5 10%, 3 7%

15.

13 ,

· V 5 30%, (DOP) 1 3%, 40 80%, U · V 5 30%, U 3 7%

16.

17.

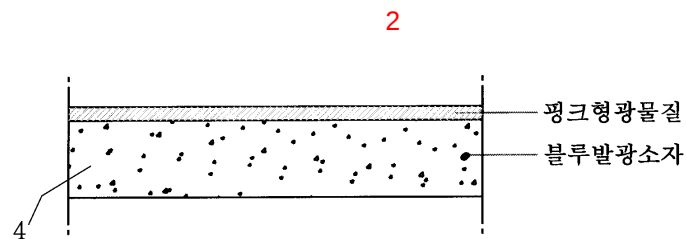
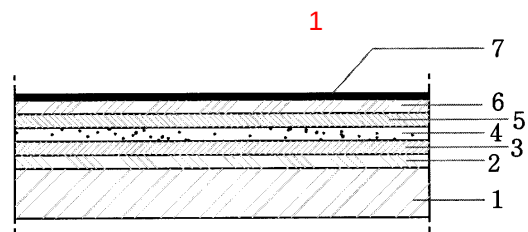
1 9 ,

가

18.

1 12 ,

가



|                |                                  |         |            |
|----------------|----------------------------------|---------|------------|
| 专利名称(译)        | 具有紫外线屏蔽功能的分散型发光器件片的组合物           |         |            |
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#### 摘要(译)

本发明涉及一种分布型发光器件片的组合物，该发光层形成在透明隔离层和位于宝座上的耐热树脂板的背面隔离层之间，并形成相应的前涂层。顶部底侧的透明电极层和后电极变为。并且将其中紫外线吸收剂和紫外线稳定剂与发光器件水和透明绝缘体等特别混合的透明油墨材料以50~150：100%的重量比混合并涂覆发光组合物形成层或透明隔离层等。因此，在阳光下的EL片的发光层中是暴露状态，具有紫外线防护功能的分布型发光器件片的组成更能提高EL片的寿命和适销性。单层由于发光装置被紫外线破坏而产生高亮度，或者没有被挥发，尽管长时间使用长时间作为室外标志或引导板等。发光器件，分布型EL片，发光层，片，EL，ELECTROLUMINESCENCE。

