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(73)

1355-26

(72)

1 632

2 124-30

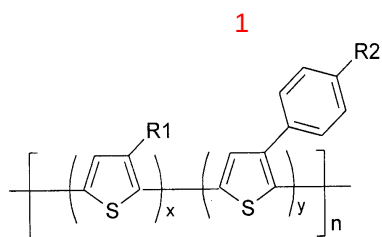
(74)

:

(54)

1

가



, R1

1

, R2

1

2.000

100,000

, x,y 0

1

가

, n 1 1,000 가 .

1

1
2 (DCM2) (EPMR1)

(polythiophene) (OELD)가

21

TV

CRT(Cathode Ray Tube)가

FPD(Flat Panel Display;)가

LCD(Liquid Crystal Display)가 CRT

LCD가

ELD(Organic Electroluminescence Display)가

ELD ELD

ELD가

ELD (Eastman Kodak) ELD가 Pope (Vanslyke) 1990 1987 PPV

(hole) (electron)가 (recombi

(exition)

ELD가 TPD, NP

D, CuPc, MTDATA Alq3, DTVBi, PBD

done) , DCM (full color) Alq3 (rubrene) (dopping) (coumarine) (Quinacri

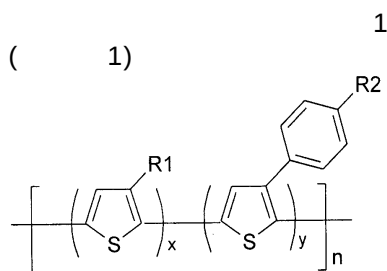
Alq3 PPV, BUEH-PPV, BeBq2, Almq

PPP, BDOH-PF, Balq, DPVBi, OXD-D

MEH-PPV, DCM

(polythiophene)

(polythiophene)



, R1, R2, 1, 2.000, 100,000, x, y, 0, 1, 가

, n, 1, 1,000, R1, R2, R1, R2

R1, R2, -OX1, X1

ELD

ELD, 1, (10), (ELD), (20), (30), (40)

(10), (20), (Indium- tin- Oxide ;ITO), (sputtering), (30), 가

(Hole Transport Layer)

(30), (20), (ultrasonication)

(Spin Coating), 10^{-5} , 200, 1200, 500, 2000rpm

(40), (30), (Li), (Al), 100, 300nm

ELD

5, ELD, 3, /, /, /, /

가

가

1

(ITO)

(detergent)

R1, R2가, 10^{-5} , x, y가, 0.7, 0.3, 가, n, 176, 17, 00rpm, 200nm, 1000, 8V, 가, 137cd/m², , 10V, 가, 253cd/m²

2

ITO, 10^{-5} 1
 (poly(3-octylthiophene-co-3-(4-fluorophenyl)thiophene) 1000 1700rpm
 (tris(8-hydroxyquinolino)aluminium 500
 10 /sec
 200nm
 9.5V 가 386cd/m²
 () (ITO) (detergent)
 (ultrasonication)
 ITO $<10^{-6}$
 (CuPc, copperphthalocyanine) 200 300
 (DCM, [4-(dicyanomethylene)-2-methyl-6-(p-dimethylaminostyryl)-4H-pyran]) 200 800
 3 /sec
 100 300nm (Li 10%)/
 EL 9V 가 110cd/m²

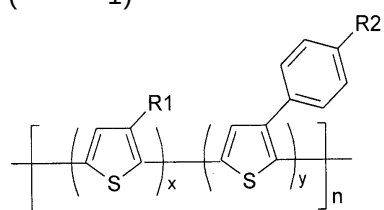
(HTL)

5 (/ / , / /)
 3

(57)

1.

1
 (1)



, R1

1

R2

x, y 0 1 가 , n 1 1,000 .

2.

1

3.

1

4.

1

5.

1
-OX1

X1

6.

7.

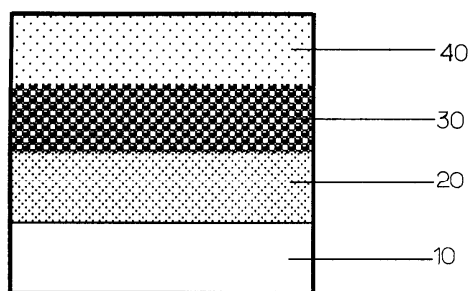
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1

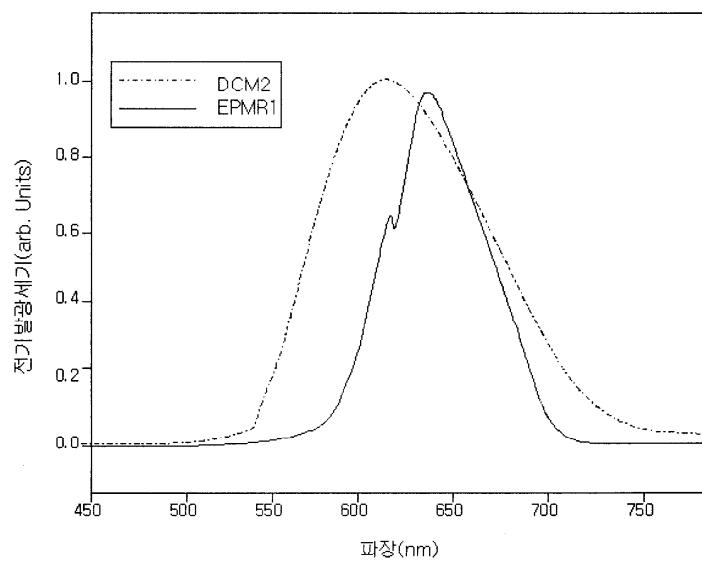
200

1200

1



2



专利名称(译)	用于红色有机发光器件的聚合物化合物和使用其的发光器件		
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[标]申请(专利权)人(译)	ELIATECH		
申请(专利权)人(译)	电梯技术有限公司.		
当前申请(专利权)人(译)	电梯技术有限公司.		
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代理人(译)	CHO , TARM PARK MI SOOK		
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外部链接	Espacenet		

摘要(译)

本发明涉及用于红色发光材料的高分子化合物和使用其的有机发光器件，其中本发明的高分子化合物具有空穴传输能力和有机电致发光器件它在构造方面具有优异的红色发光效果。一级方程式 其中R 1是选自氢原子，卤原子，烷基，链烯基，环烷基，烷氧基，芳烃基和芳香酯环化合物中的一种；R 2是氢原子，卤原子，卤代烷基，烷氧基，芳香族烃基和芳香族杂环化合物。本发明中提供的化合物的平均分子量为2000至100,000，x和y的比率为0至1，n的值为1至1,000。1

