

(19)
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2002 - 0041987
2002 06 05

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10 - 2000 - 0071668
2000 11 29

(71)

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29 - 9

(72)

2103 - 906

123 - 903

11105 - 1404

3101 - 1204

4551209 - 1701

(74)

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(54)

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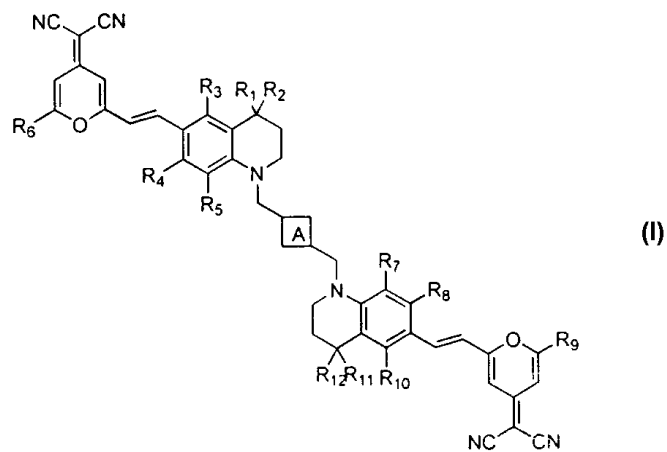
(I) - (bis - substituted)

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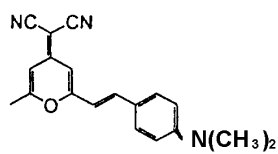
1



A C₁₋₄, C₁₋₄ C₁₋₄,
 R₁ R₁₂, C₁₋₄, C₁₋₄, C₁₋₄ C₁₋₄

6 - (4 -) - 4H - (DCM) 4 - () - 2 - -
 가 :

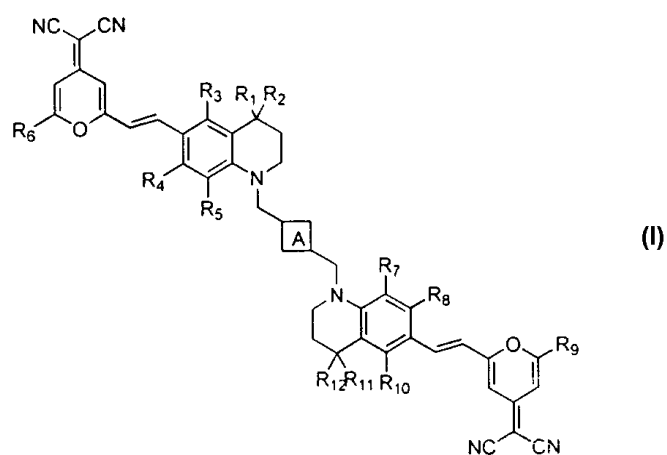
2



가

(I)

1

A C₁₋₄, C₁₋₄ C₁₋₄R₁ R₁₂, C₁₋₄, C₁₋₄, C₁₋₄ C₁₋₄

(I)

DCM

2

가

가

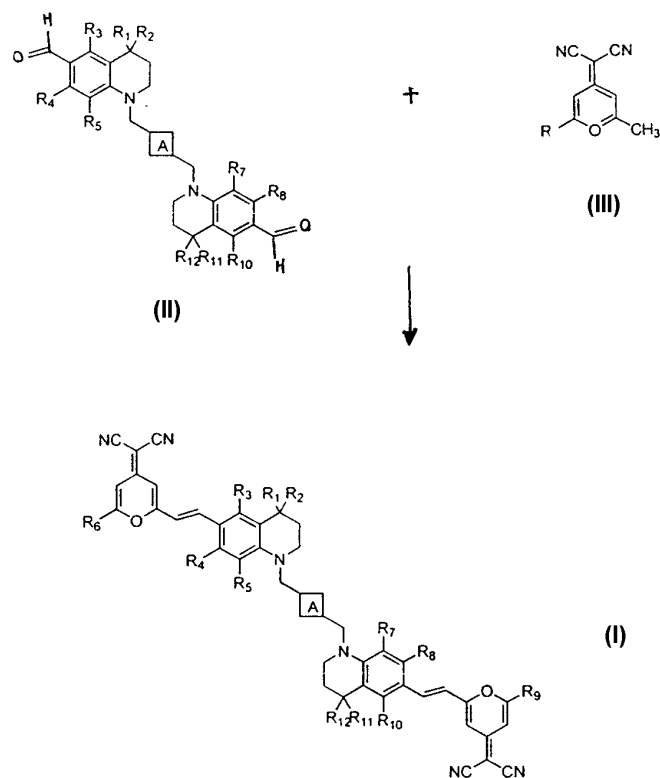
(I)

, A가

R₁R₁₂

(I)

1

, A R₁ R₁₂, R R₆ R₉

(I)

(II)

(III)

1:2

가

70

1

5

(II)

DMF

POCl₃

1 100

(Vilsmeier - Heck)

(III)

(I)

, ITO -

(I)

(/)

가

(II - a) (II - b)
NMR data

(II - a): 64%

^1NMR (CDCl_3 , 200MHz) δ (ppm) 9.66(2H, s), 7.49 - 7.50(2H, d), 7.46(2H, s), 6.60(2H, s), 6.48 - 6.50(2H, d), 4.52(6H, s), 3.46 - 3.50(4H, t), 2.85 - 2.89(4H, t), 2.02 - 2.06(4H, m)

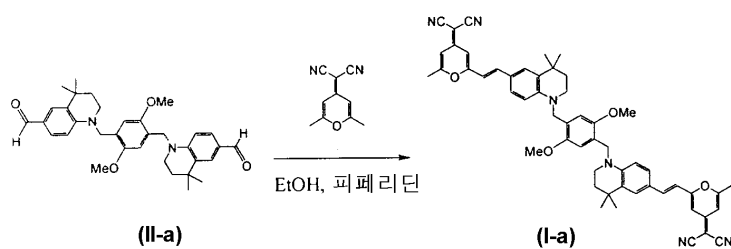
(II - b): 76%

^1NMR (CDCl_3 , 200MHz) δ (ppm) 9.87(2H, s), 7.75 - 7.73(2H, d), 7.57(2H, s), 7.49 - 7.50(2H, d), 7.46(2H, s), 7.39 - 7.41(2H, d), 6.48 - 6.50(2H, d), 4.56(4H, s), 3.95(2H, s), 3.48 - 3.52(4H, t), 2.90 - 2.95(4H, t), 2.04 - 2.08(4H, m)

1

(I)

2

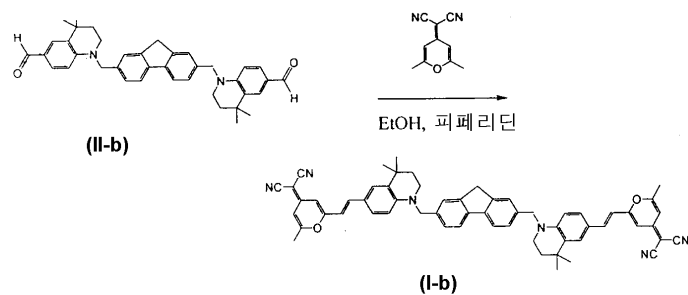


10 ml 4 - 2,6 - 4H - 0.082 g (0.48) 1
(II - a) 0.116 g (0.24) 가 , 0.045 g (0.52) 가 7
5 1 - 3 가 . 0.1 g (53
(%)

2

(I)

3



1 - 3 , 10 ml 4 - - 2,6 - - 4H - 1.82 g (10.6) 2
 (II - b) 2.71 g (5.3) 가 , 1.26 g (14) 가 75
 가 2.756 g (63%)

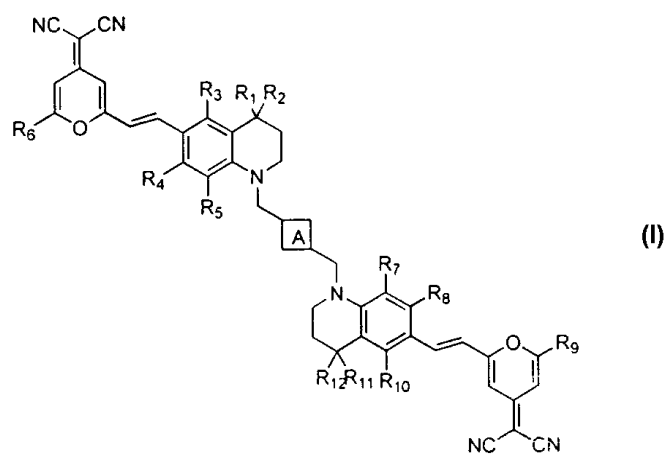
(OPC), (Photodiode),

(57)

1.

(I) - :

1



A C_{1-4} , C_{1-4} C_{1-4} ,
 R_1 R_{12} , C_{1-4} , C_{1-4} , C_{1-4} C_{1-4}
 2.
 1
 3.
 2 ,

专利名称(译)	二取代基于喹啉的红色荧光材料，其制造方法以及包含该红色荧光材料的有机电致发光装置		
公开(公告)号	KR1020020041987A	公开(公告)日	2002-06-05
申请号	KR1020000071668	申请日	2000-11-29
[标]申请(专利权)人(译)	株式会社东进世美肯 东进Semichem		
申请(专利权)人(译)	东进公司Semichem		
当前申请(专利权)人(译)	东进公司Semichem		
[标]发明人	JUN DAESEOK 전대석 HWANG HAKEUN 황하근 HAN KIJONG 한기종 KEUM JIHWAN 금지환 KIM YOUNGKYOO 김영규		
发明人	전대석 황하근 한기종 금지환 김영규		
IPC分类号	C09K11/06		
CPC分类号	C09K11/06 C09K2211/1018 C09K2211/1029 H01L51/0062 H01L51/5012 H05B33/14 Y10S428/917		
其他公开文献	KR100732343B1		
外部链接	Espacenet		

摘要(译)

用途：本发明提供双取代喹啉红色荧光体，其稳定性优异，可表现橙色至红色，及其制剂和含有双取代喹啉红色荧光体的有机电致发光元件。

