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(KR)
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(51) 。 Int. Cl.⁷
C07D 409/14

(11)
(43)

2003-0068402
2003 08 21

(21) 10-2003-0005799
(22) 2003 01 29

(30) JP-P-2002-00035570 2002 02 13 (JP)

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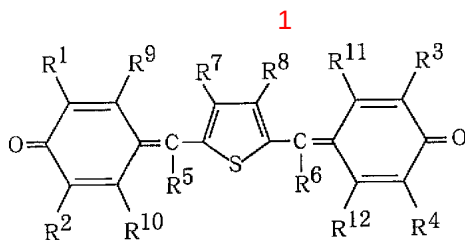
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(74)

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(54)

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, R¹ R⁴ R⁹ R¹²
C₁-C₆

, R⁵ R⁶

, C₁-C₁₂
C₁-C₁₂

$-C_6$, R^7 , R^8 , C_1-C_6 , C_1

1

1	1-8	IR	.
2	1-8	1H -NMR	.
3	1-36	IR	.
4	1-36	1H -NMR	.

(EL)

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[電子寫眞

學會誌 Vol. 30, p 266-273(1991)],

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[Pan-Pacific Imaging Conference/Japan Hardcopy '98 July 15-17, 1998 JAHALL, Tokyo, Japan 予稿集 p 207-210], 9-151157, [Japan Hardcopy '97 論文集 1997 7 9, 1

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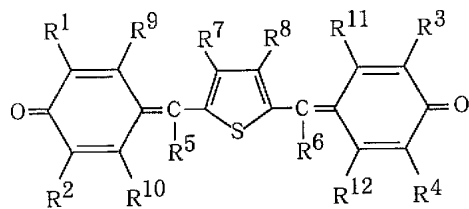
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 190003, 2001-222122,
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 用物理 70 12 (2001) p 1419-1425 「高效率有機EL材料の開発動向 (大森)」]

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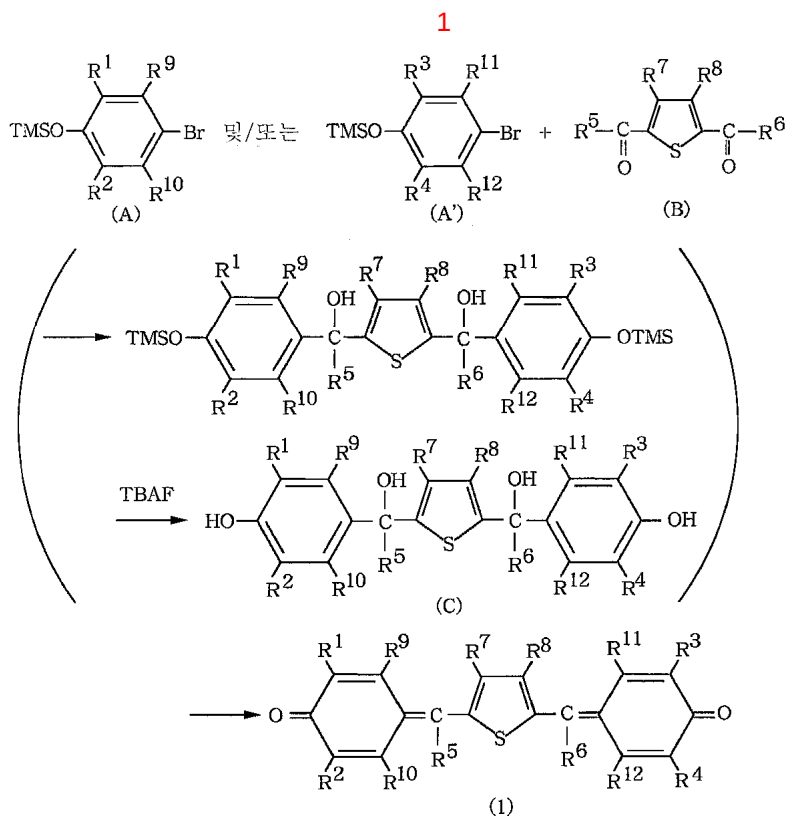
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 C₁-C₆,
 C₁-C₁₂, R⁷ R⁸,
 C₆,
 , R⁵ R⁶,
 , C₁-C₆, C₁-
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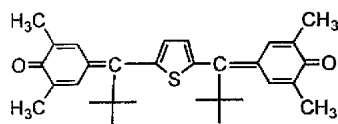
1 TBAF

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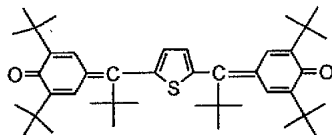
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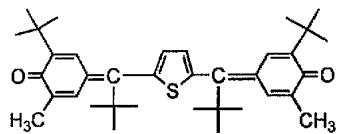
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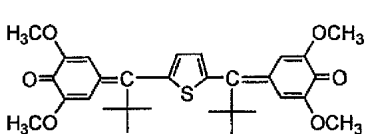
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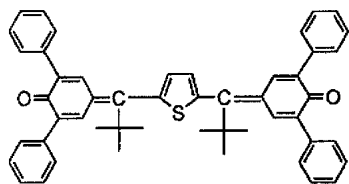
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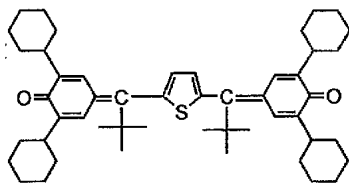
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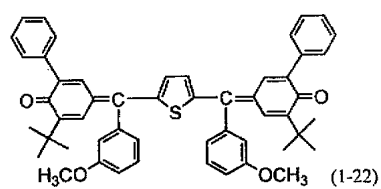
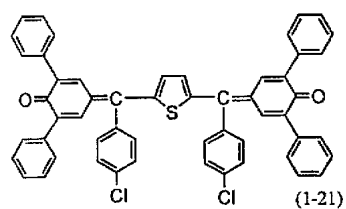
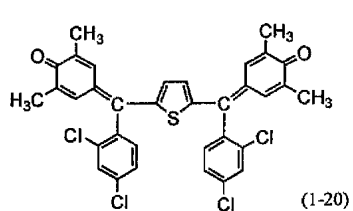
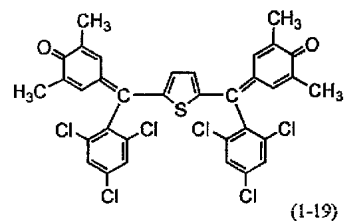
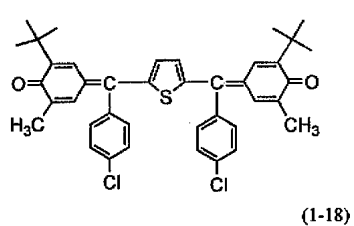
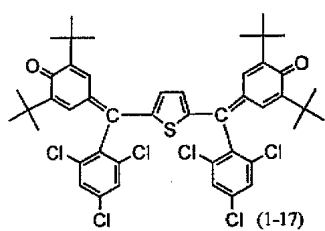
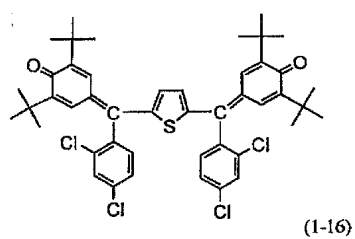
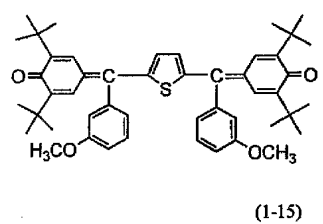
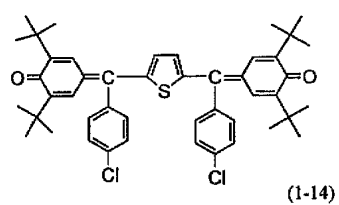
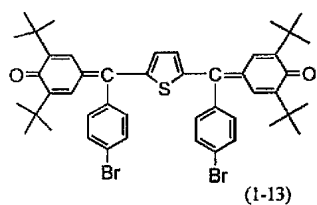
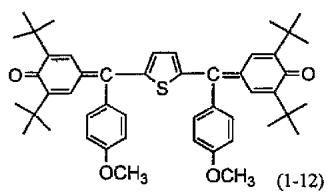
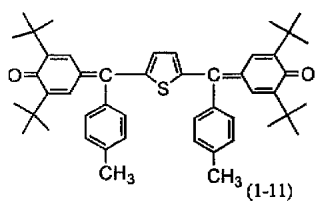
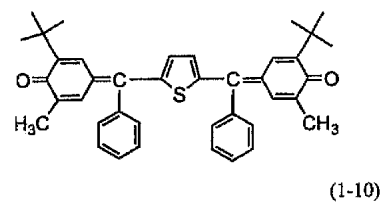
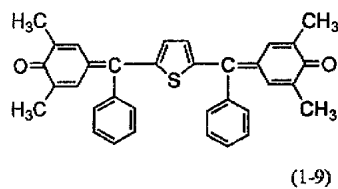
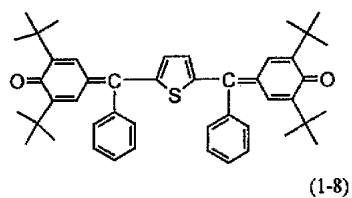
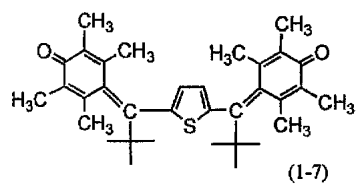
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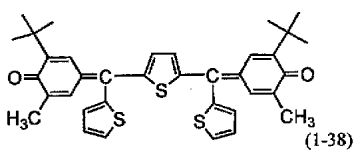
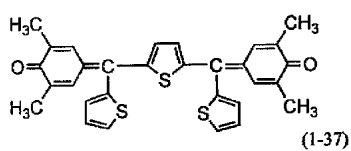
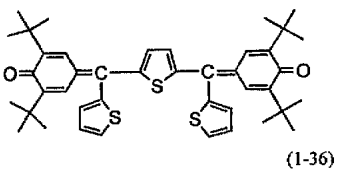
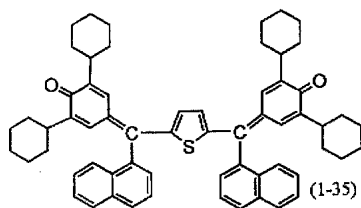
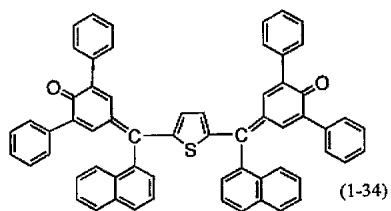
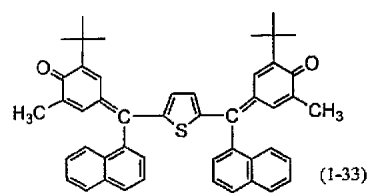
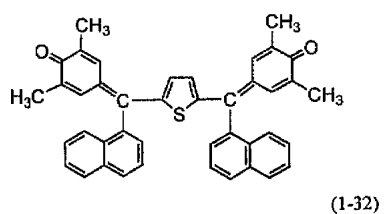
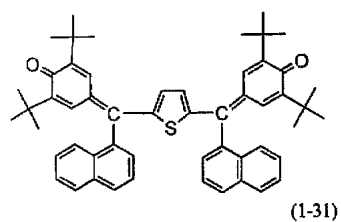
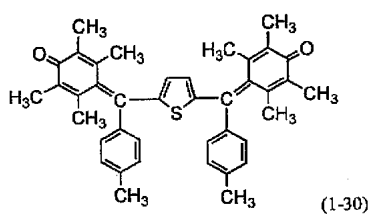
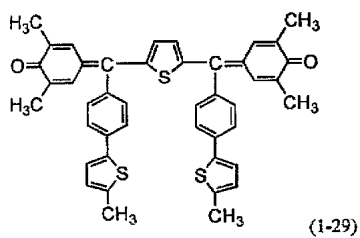
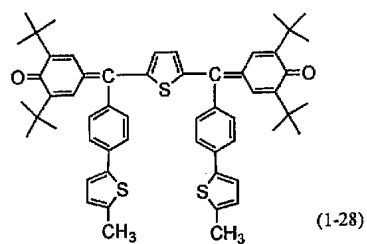
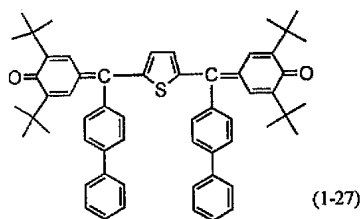
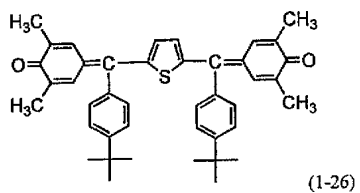
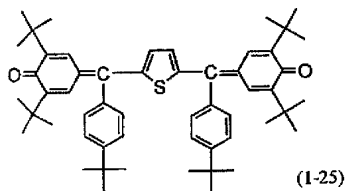
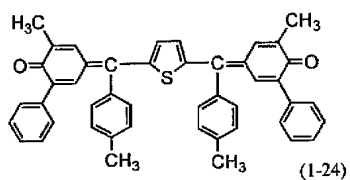
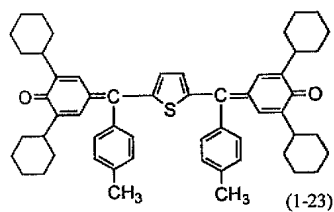


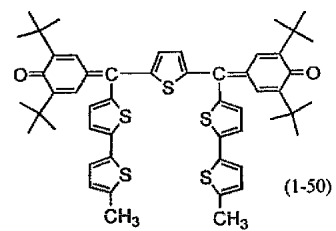
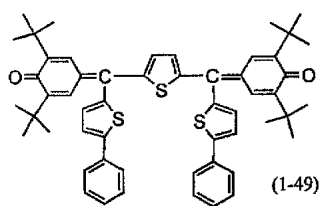
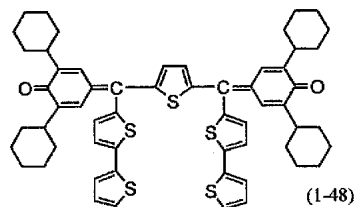
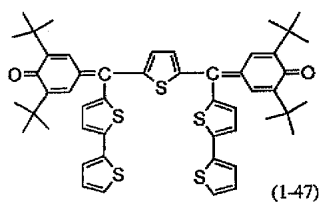
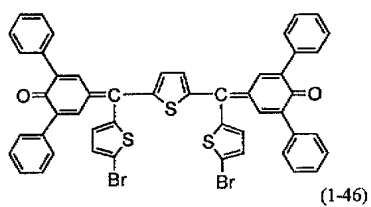
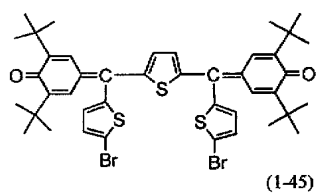
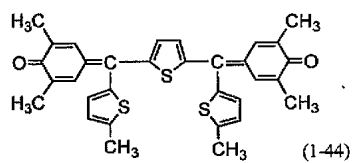
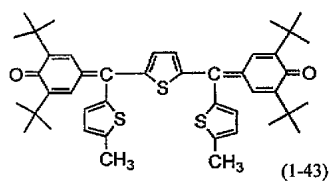
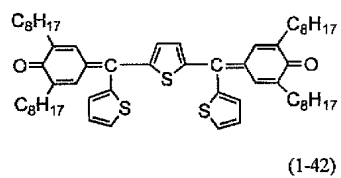
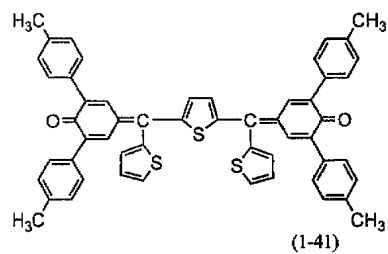
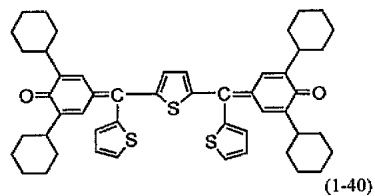
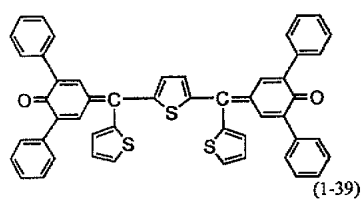
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(1-6)





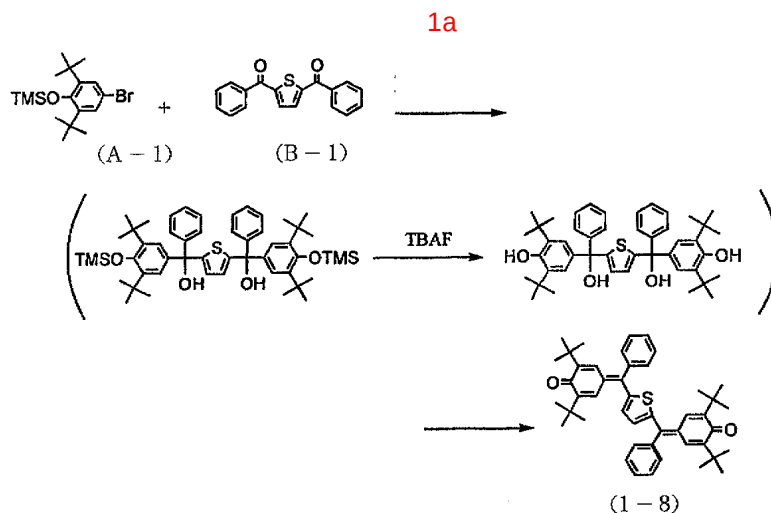


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1-8



4- -2,6- -t- -1-[] (A-1)

50 mmol (17.9 g)

THF() 100 Mℓ

n- (1.6 M) 60 mmol (38 Mℓ)

2,5- (B-1) 20 mmol (5.8 g)

THF() 20 Mℓ

10 Mℓ

(1.0 M THF)(TBAF) 50 mmol (26.1 g)

p- (p-TsOH)

100 Mℓ

(A-1) 3 THF (100 Mℓ) 가 .

-78 (-), N₂ n- 30 가 , 30 .
 , (B-1) THF (20 Mℓ) 30 가 , 3 .

10 Mℓ 가 가 .

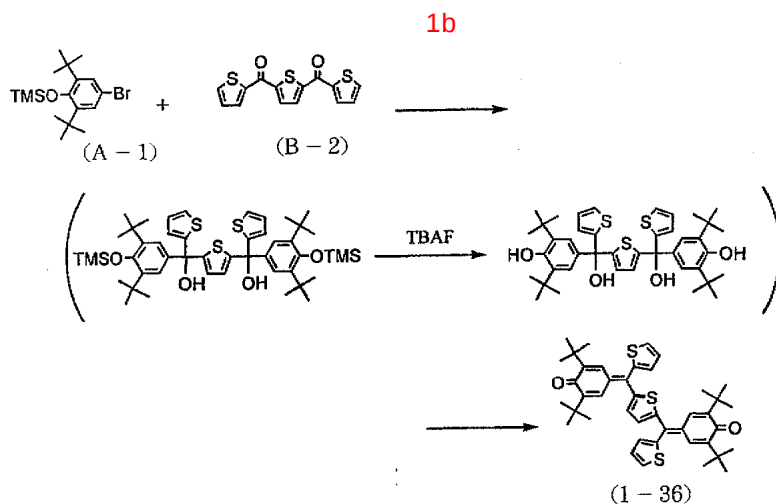
0 () TBAF (50 Mℓ) 가 , 3 .

(100 Mℓ) , p-TsOH 가 , 2 가 .

1-8 IR 1, $^1\text{H-NMR}$ 8.0 g (59.8%), MS m/z 669 (M^+)

2

1-36



1 g) 1 2,5- (B-1) 20 mmol (5.8 g) 2,5- (B-2) 20 mmol (6.4 g) 36.0%, MS m/z 681 (M^+) 1-36 IR 3, $^1\text{H-NMR}$ 4.9

22, 4- -2,6- -t- -1- [] (A-1) 2001-2221
[Y. Miyahara, *J. Heterocyclic. Chem.*, 1979, 16, 1147-1151]

1

가 , 가 (30 mm ϕ)

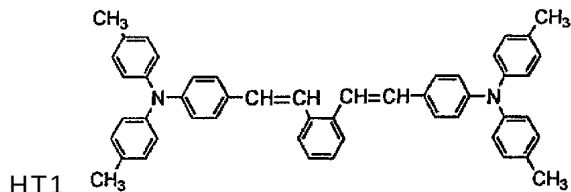
(素管) , 100 60
0.3 μm , , 「 」

가 (アミラン CM8000: 가 가) 3

/ (5/5) 97

, 100 60 25 μm

: X 0.3



: HT1

7

: 1-8 [1] 3

: 3,5- -t-4- (BHT)

(가 가) 1

: KF-50 (가가 가 가) 0.01

: Z 10

(판라이트 TS2020: 가 가 가)

100

.

_____ 2

2 1 1-8 3 1

2 1-36 3

.

_____ 1, 2 가

가 , 가 가 가

EPA-8100 가 .

23 , 45% + 600 V가 , 5

.

유지율 $V_{k5}(\%) = (V_5/V_0) \times 100$ V_0 : V_5 : 5 ()

5 , 가 + 600 V , 780 nm 1.0 $\mu W/cm^2$

5 가 (+ 300 V) $E_{1/2} (\mu J/cm^2)$

5 $V_r (V)$. 가 1 .

[1]

	V_{k5} (%)	$E_{1/2}$ ($\mu J/cm^2$) ^{1/2}	V_r (V)
1	84.3	0.36	48
2	81.2	0.39	51

HL-1240 가 , 가
 22 , 44%
 5% 5,000
 5,000 가

1 2 , 5,000

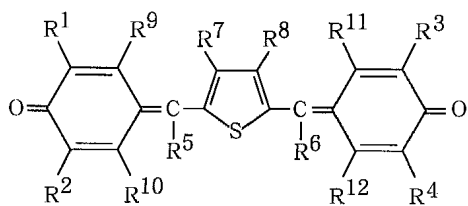
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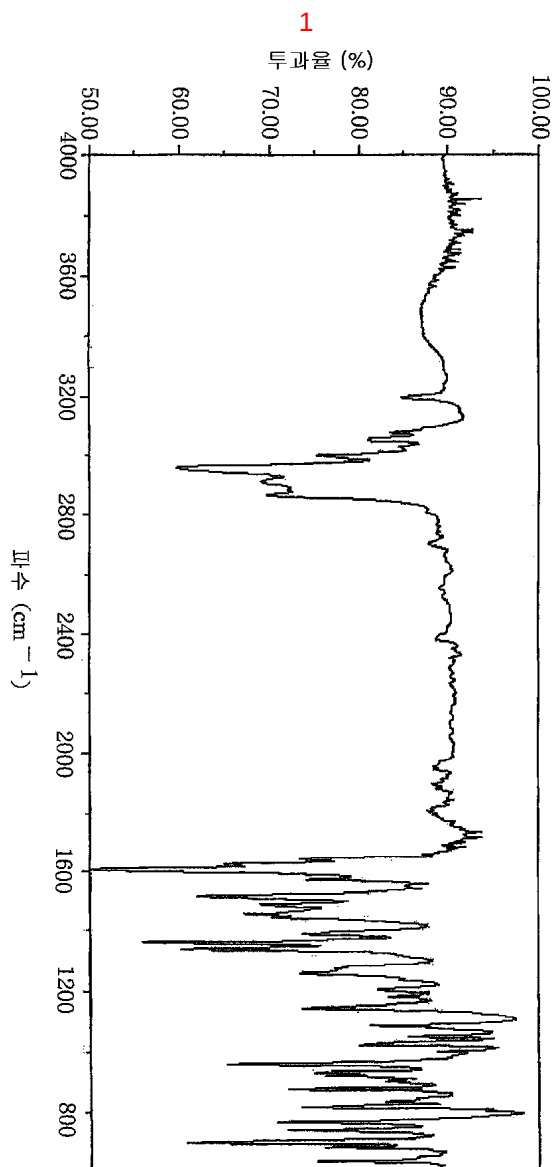
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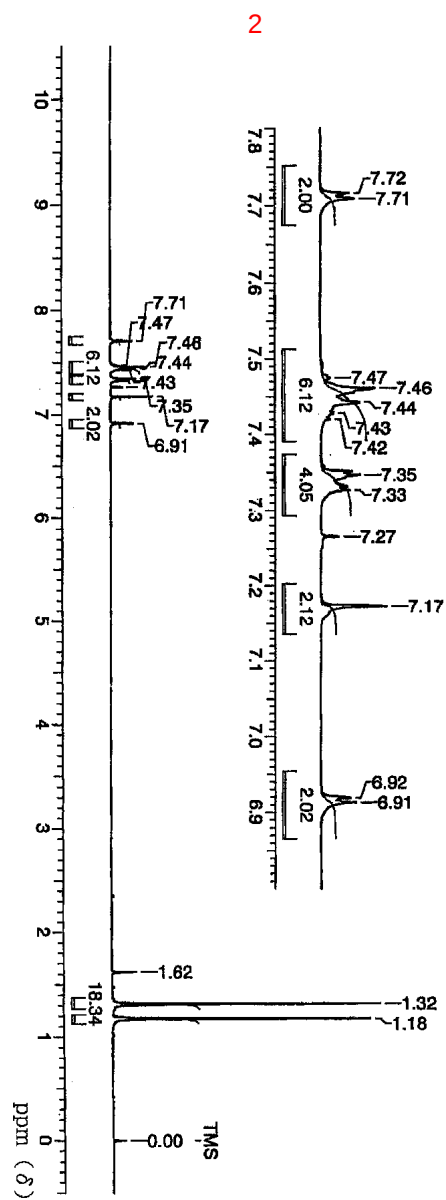
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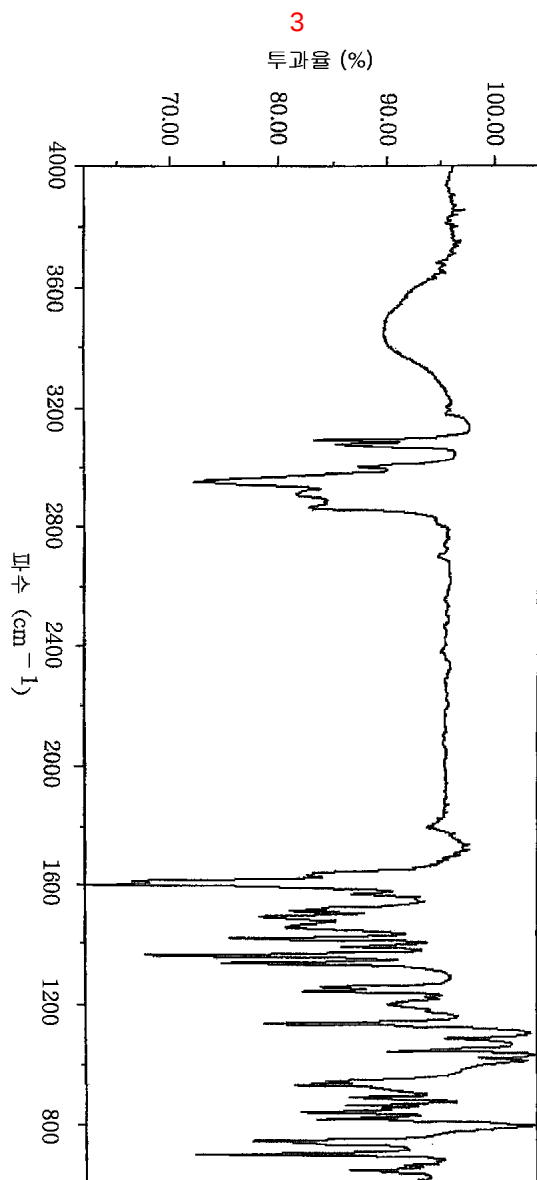
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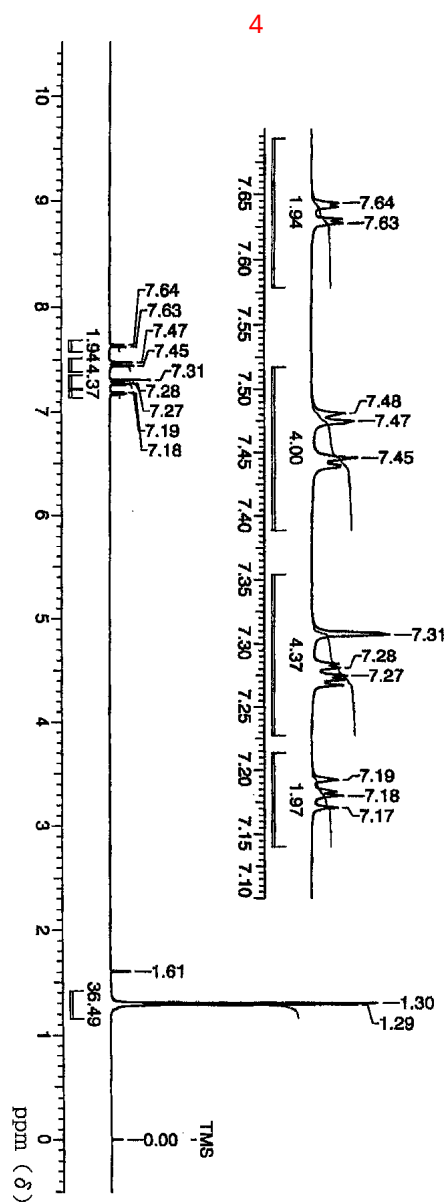


$C_1 - C_{12}$, R^1 , R^4 , R^9 , R^{12} ,
 $C_1 - C_6$,
 $C_1 - C_{12}$, R^7 , R^8 ,
 C_6 ,
 R^5 , R^6 ,
 $C_1 - C_6$, $C_1 -$









专利名称(译)	喹啉化合物		
公开(公告)号	KR1020030068402A	公开(公告)日	2003-08-21
申请号	KR1020030005799	申请日	2003-01-29
申请(专利权)人(译)	富士地方高可否让他遭遇装置)		
当前申请(专利权)人(译)	富士地方高可否让他遭遇装置)		
[标]发明人	OHKURA KENICHI 오쿠라겐이치 UENO YOSHIHIRO 우에노요시히로 KURODA MASAMI 구로다마사미 SEKINE NOBUYUKI 세키네노부유키		
发明人	오쿠라겐이치 우에노요시히로 구로다마사미 세키네노부유키		
IPC分类号	H01L51/50 H01L51/00 G03G5/05 H01L51/30 C07D333/22 G03G5/06 C07D409/14		
CPC分类号	H01L51/5012 H01L51/0059 G03G5/0535 H01L51/0051 H01L51/42 H01L51/5048 H01L51/0052 H01L51/0068 G03G5/0696 G03G5/0521 G03G5/0517 G03G5/0629 C07D333/22		
代理人(译)	SHIN JUNG KUN 安诚德		
优先权	2002035570 2002-02-13 JP		
外部链接	Espacenet		

摘要(译)

本发明的目的是提供可用于电子照相用光电导体的电子传输功能，或者有机电致发光用途是优异的化合物。由以下化学式1表示的结构可以参考具有的喹啉化合物。化学式中的R 1~R 4和R 9~R 12表示氢原子，C 1 - C 12烷基，环状烷基，芳基或C 1 -C 6烷氧基相同或不同。并且，显示了C 1 -C 12烷基，芳基或杂环基R 5和R 6相同或不同。R 7和R 8代表氢原子。并且取代基表现出卤原子，C 1 -C 6烷基，C 1 -C 6烷氧基，芳基或杂环基。

