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(71)

31

(72)

31

31

31

31

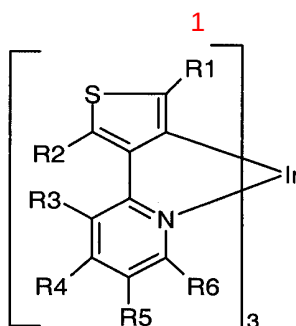
(74)

:

(54)

, 1

가



-10, C, R1, R6, C, 1
 6-20, C, 6-20

1

1, 2, 3, 4 (NMR) 1 (IR) (PL) , -가 (UV-VIS)

(OLED)

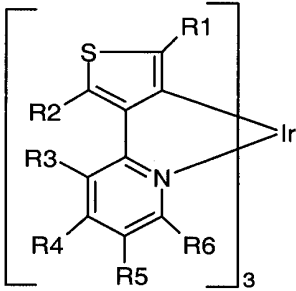
가 ,
 π - (conjugated) 가 (intersystem crossing)
 , (red), (green), (blue),
 (: fac-tris(2-phenylpyridine)iridium() [Ir(PPy)₃] , In
 organic Chemistry, 40, 1704 (2001))가

up) (core) 가 (branching group) (surface gro
 (dendron) (dendrimer) ,
 가

(conjugated diene moiety) (star-burst) , (spiro) ,
 가 (thiophene) , (benzotriazole)
 (benzotriazole) (conjugated dienyl thiophene oligomer),
 (polythiophene) , (polythiophe
 ne) 2001-0050326

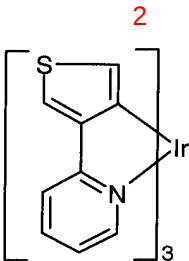
가

1

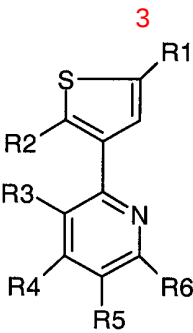


10, R1, R6, C 6-20, C 6-20, C 1

2-(3-) (2-(3-thienyl)pyridine) 2



3



R1, R6, 1

3

1

1
가

가

(evaporation)
ITO/ / (+)/ / ,
+)/
ITO/ / (
가 . ,
가 .

1

IrCl₃ · nH₂O (0.2g, 0.00067mol) 2-(3-) (0.35g, 0.0021mol) (4ml) (30ml)
가 150 1 (10ml) AgCOOCF₃ (0.47g, 0.0021
mol) 가 3 , HCl (0.1M, 100
ml) 가 .
2 Ir(thpy)₃ . (SiO₂ , + (1:1 v/v))
(23 %). (PL) , UV-VIS , (NMR) (IR
) 1 4 , 530 600 nm (IR
2 .

2

2-(3-) 2-(3-)-3- 1
1 R3가 CH₃ .
: C% 50.26, H% 3.37, N% 5.86
: C% 49.62, H% 3.35, N% 5.61
2 563nm

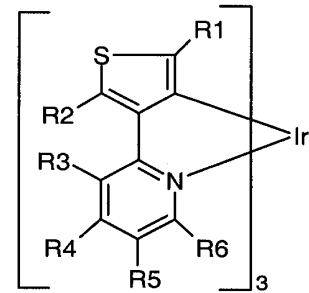
(OLED), (LD) (field effect transistor), (photodiode), (solar cell),

(57)

1.

1 :

1



-10 , R1 R6 , , , , , , , C 1
 , C 6-20 C 6-20

2.

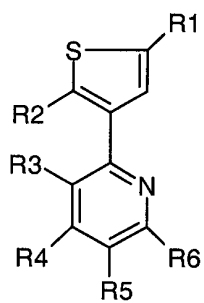
1 ,

1 R1 R6 C 1-10

3.

3 1

3



, R1 R6 1 1

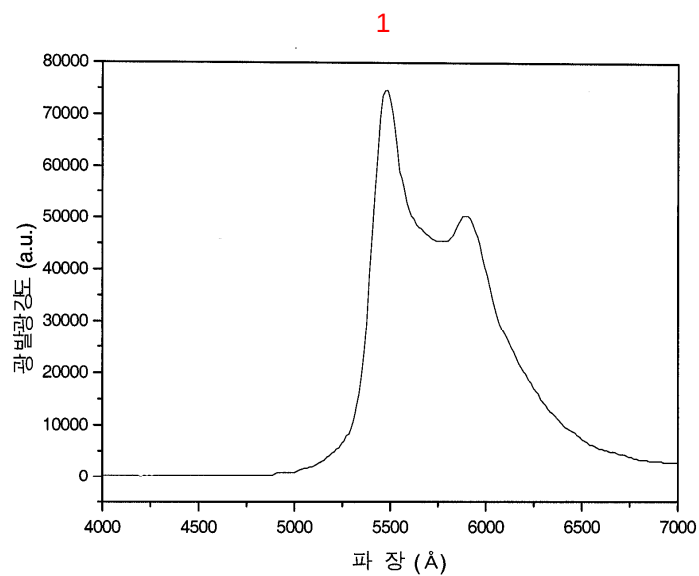
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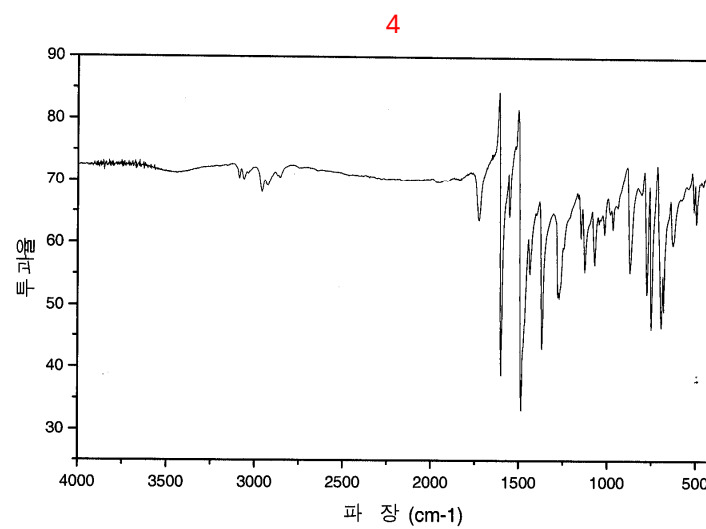
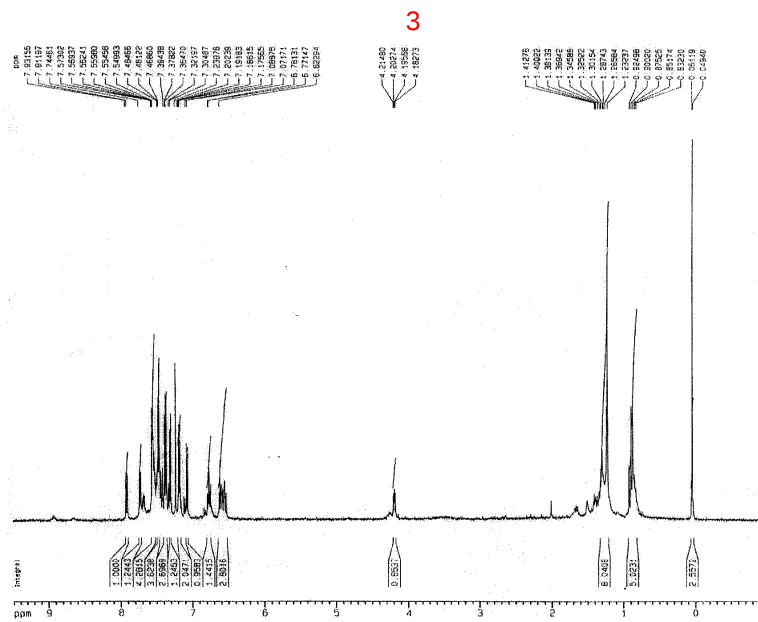
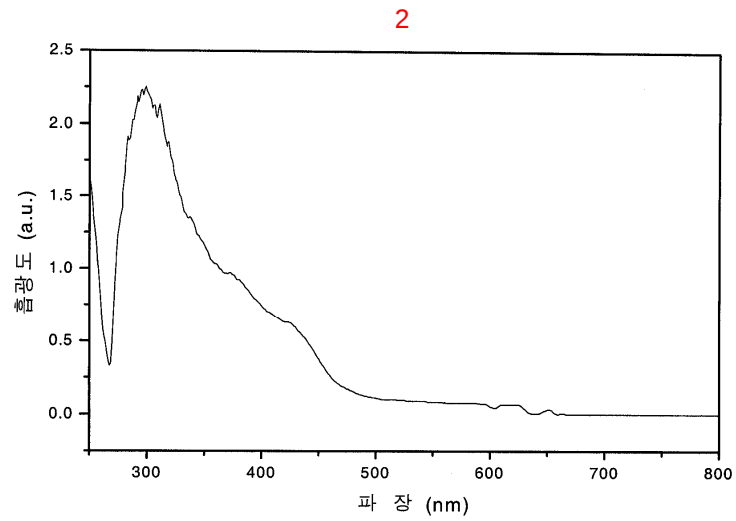
1

5.

4 ,

, 1





专利名称(译)	有机金属发光化合物		
公开(公告)号	KR1020040009557A	公开(公告)日	2004-01-31
申请号	KR1020020043553	申请日	2002-07-24
[标]申请(专利权)人(译)	浦项工科大学校产学协力团 学校法人浦项工科大学		
申请(专利权)人(译)	学校法人浦项工科大学		
[标]发明人	RHEE SHIWOO 이시우 SHIM JUNG JIN 심정진 KRISYUK VLADISLAVV 크리시우크블라디슬라브브이 TURGAMBAEVA ASSIAE 트루감배바아씨아이		
发明人	이시우 심정진 크리시우크블라디슬라브브이 트루감배바아씨아이		
IPC分类号	C09K11/06		
CPC分类号	C07F15/0033 H01L51/0062 H01L51/0085 C09K11/06 H01L51/5012 H05B33/14 C09K2211/1007 C09K2211/1029 C09K2211/1092 C09K2211/185 Y10S428/917		
代理人(译)	長城. Ohgyuhwan		
其他公开文献	KR100497552B1		
外部链接	Espacenet		

摘要(译)

目的：提供一种新型有机金属发光化合物及其制备方法和使用该化合物的有机电致发光器件，得到发光效率提高的黄色发光化合物。组成：有机金属发光化合物由式1表示，其中R1-R6独立地为H，卤原子，OH，硝基，羰基，羧基，氨基，酰胺基，磺酸酯基，C1-C10的烷基，芳基C6-C20或C6-C20的杂芳族基团。该方法包括使式3表示的配体化合物与金属前体反应的步骤。有机电致发光器件采用含有式1化合物的有机电致发光层。©KIPO 2004

