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31

31

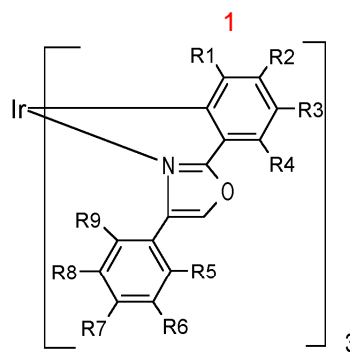
31

(74)

:

(54)

, 1 가



-10, C 6-20, R1, R9, C 6-20, C 1

1

1, 2, 3, 4 (NMR) 1 (IR) (PL) , 가 (UV-VIS)  
 5 2 (PL)

(OLED)

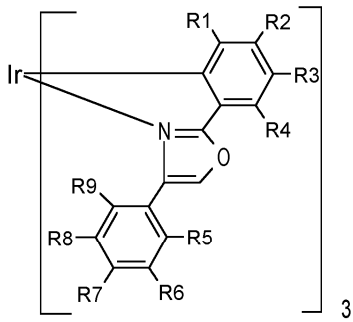
(conjugated) 가 (intersystem crossing)  
 , (red), (green), (blue),  
 ( : fac-tris(2-phenylpyridine)iridium( ) [Ir(PPy)<sub>3</sub>] , I  
 norganic Chemistry, 40, 1704 (2001))가

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

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

가

1



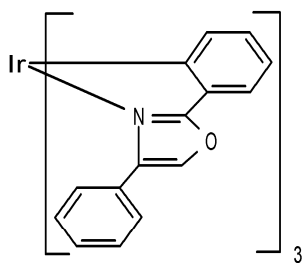
, R1 R9 , , , , , , , , , C 1  
 -10 , C 6-20 C 6-20 .

2,4-

(2,4-diphenyloxazole)

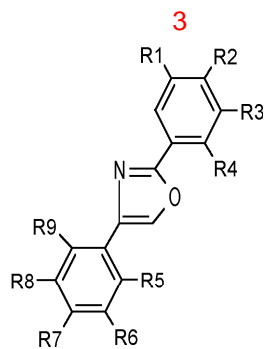
2

2



Ir(2,4-dpo)<sub>3</sub>

3



, R1 R9 1 .

3

1

1

가

가

ITO/ (evaporation) / (ITO/ )/  
 + )/  
 가

< 1 >

IrCl<sub>3</sub> · nH<sub>2</sub>O (0.46g, 0.0015mol) 2,4- (1.18g, 0.0053mol) (4ml) (40ml)  
 가 170 1 (10ml) AgCOOCF<sub>3</sub> (1.15g, 0.0052mol)  
 가 13 HCl(0.1M, 100ml) 가  
 (40ml) 가  
 2 Ir(2,4-dpo)<sub>3</sub> 가 (270 , 10<sup>-4</sup> torr) ( 30 %).  
 (PL) , 가 (UV-VIS) , (NMR)  
 1 4 , 530 580 nm  
 2 (IR)

< 2 >

2,4- 2-(p- )-4- 1  
 1 R<sub>2</sub>가 CH<sub>3</sub>

: C% 64.19, H% 4.38, N% 5.35

: C% 64.22, H% 4.50, N% 5.30

2 5 , 530 580 nm

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

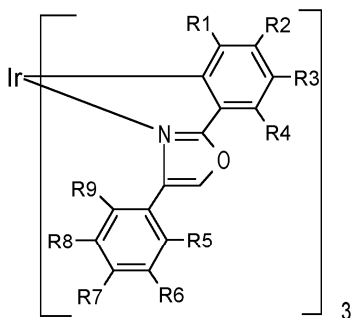
(57)

1.

1

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1



-10 , R1 R9 , , , , , , , , , , , C 1  
 , C 6-20 C 6-20 .

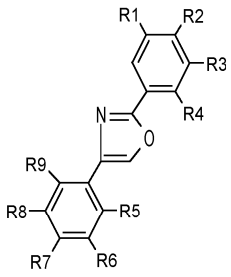
2.

1 , 1 R1 R9 C 1-10 .

3.

3 1 :

3



, R1 R9 1 1 .

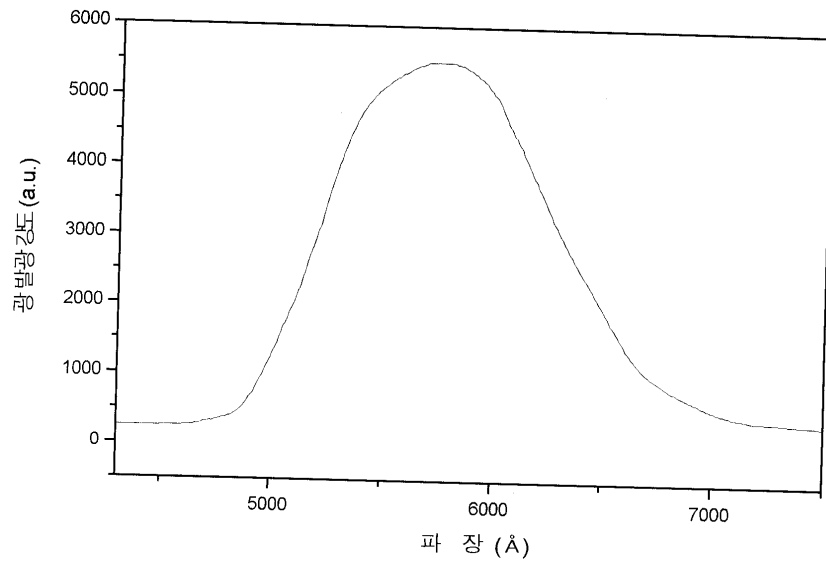
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1 .

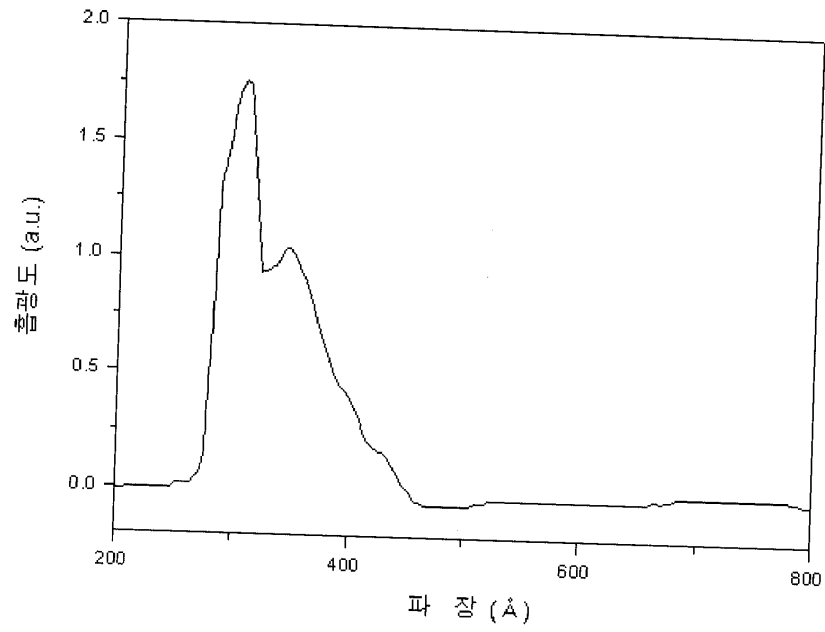
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4 , 1

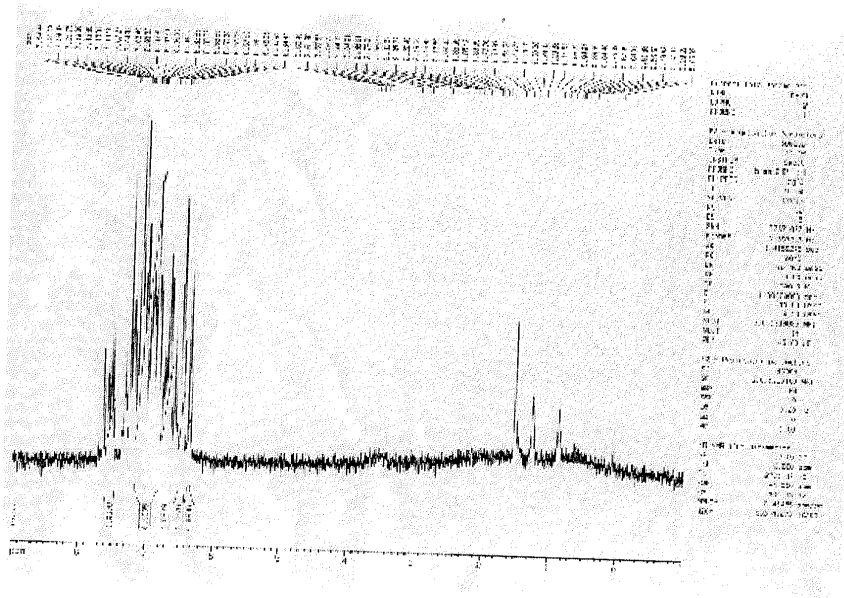
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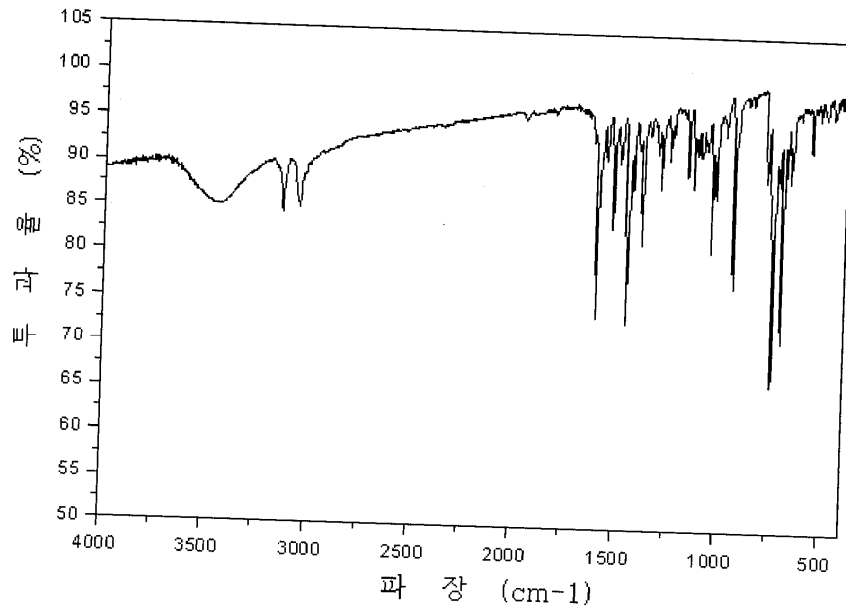
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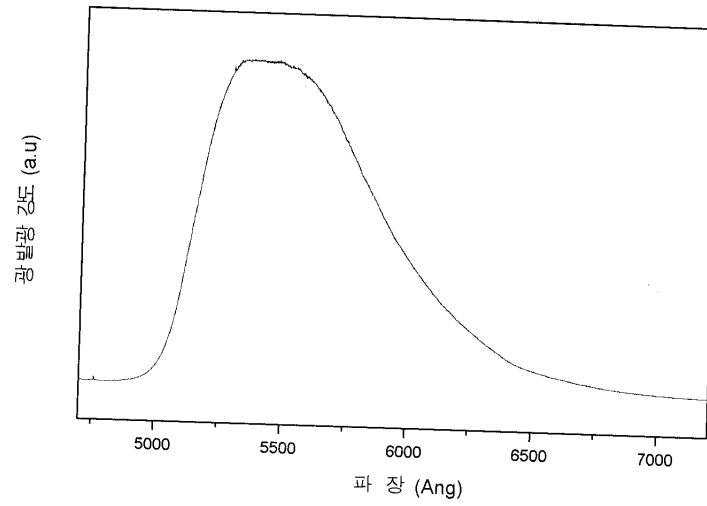
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4



5



专利名称(译)	有机金属发光化合物		
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申请号	KR1020020035541	申请日	2002-06-25
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IPC分类号	C09K11/06		
CPC分类号	E03D9/02 E03D9/04 F24F7/007		
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其他公开文献	KR100492511B1		
外部链接	<a href="#">Espacenet</a>		

摘要(译)

本发明涉及一种新型有机金属化合物，由下列通式(1)表示的有机金属化合物具有黄色发光性能，可有效地用于有机电致发光器件中。一级方程式 其中R 1至R 9各自为氢，卤素，羟基，硝基，羰基，羧基，氨基，酰胺，磺酸根，C 1-10烷基，C 6-20芳基或C 6-20杂芳族基团。 1

