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(54) **Novel red electroluminescent compounds and organic electroluminescent device using the same**

(57) The present invention relates to novel red phosphorescent compounds exhibiting high luminous efficiency, and organic electroluminescent devices comprising the same.

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EUROPEAN SEARCH REPORT

Application Number
EP 08 16 7460

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
A	US 2004/127710 A1 (PARK SOO-JIN [KR] ET AL) 1 July 2004 (2004-07-01) * abstract * * paragraph [0043] * * compounds *	1,9	INV. C09K11/06 H01L51/50 H05B33/14 C09B57/10 C07F15/00
A,P	PARK GUI YOUN ET AL: "Synthesis and photo physical study of iridium complex of new pentafluorophenyl-substituted ligands" THIN SOLID FILMS, ELSEVIER-SEQUOIA S.A. LAUSANNE, CH LNKD-DOI:10.1016/J.TSF.2007.08.030, vol. 516, no. 11, 1 January 2008 (2008-01-01), pages 3622-3626, XP002514162 ISSN: 0040-6090 [retrieved on 2007-08-16] * figures *	1,9	
A,P	WO 2008/109824 A2 (UNIVERSAL DISPLAY CORP [US]; KWONG RAYMOND [US]; MA BIN [US]; XIA CHUA) 12 September 2008 (2008-09-12) * compound 18 *	1,9	TECHNICAL FIELDS SEARCHED (IPC) C09B H05B
The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 29 June 2010	Examiner Ketterer, Michael
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	

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EPO FORM 1503 03.02 (P04C01)

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 08 16 7460

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
The members are as contained in the European Patent Office EDP file on
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

29-06-2010

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专利名称(译)	新型红色电致发光化合物和使用其的有机电致发光器件		
公开(公告)号	EP2053112A3	公开(公告)日	2010-08-04
申请号	EP2008167460	申请日	2008-10-23
申请(专利权)人(译)	GRACEL显示增量.		
当前申请(专利权)人(译)	GRACEL显示增量.		
[标]发明人	KIM JIN HO EUM SUNG JIN CHO YOUNG JUN KWON HYUCK JOO KIM BONG OK KIM SUNG MIN YOON SEUNG SOO		
发明人	KIM, JIN, HO EUM, SUNG, JIN CHO, YOUNG, JUN KWON, HYUCK, JOO KIM, BONG, OK KIM, SUNG, MIN YOON, SEUNG, SOO		
IPC分类号	C09K11/06 H01L51/50 H05B33/14 C09B57/10 C07F15/00		
CPC分类号	C09B57/10 C07F15/0033 H01L51/0067 H01L51/0071 H01L51/0077 H01L51/0079 H01L51/0085 H01L51/5016		
优先权	1020070107557 2007-10-25 KR		
其他公开文献	EP2053112B1 EP2053112A2		
外部链接	Espacenet		

摘要(译)

本发明涉及具有高发光效率的新型红色磷光化合物，以及包含该化合物的有机电致发光器件。


 European Commission
 Directorate General
 for Economic and
 Financial Affairs

EUROPEAN SEARCH REPORT

Application Number:
 EP 08 16 7460

DOCUMENTS CONSIDERED TO BE RELEVANT				
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant passages	CLASSIFICATION OF THE APPLICATION (IPC)	
A	US 2004/127710 A1 (PARK SOO-JIN [KR] ET AL) 1 July 2004 (2004-07-01) * abstract * * paragraph [0043] * * compounds	1,9	INV. C09K11/06 H01L51/50 H05B33/14 C09B57/10 C07F15/00	
A,P	PARK GUI YOUNG ET AL.: "Synthesis and photo physical study of Iridium complex of new pentar fluorophenyl-substituted ligands. THIN SOLID FILMS, ELSEVIER-SEQUOIA S.A. LAUSANNE, CH 1060 DOI:10.1016/j.tsf.2007.08.030, vol. 516, no. 11, 2008-01-01, pages 3625-3626, XP002514362 ISSN: 0040-6090 [retrieved on 2007-08-16] figures	1,9		
A,P	WO 2008/109824 A2 (HOSHINO DISPLAY CORP [US]; KYONG RAYMOND [US]; MA BIN [US]; XIA HUA) 12 September 2008 (2008-09-12) * compound 10	1,9	TECHNICAL FIELD (IPC) C09B H05B	

The present search report has been drawn up for all claims 1. Name of search: _____ Date of completion of the search: _____ 2. Name of searcher: _____ 3. Name of the applicant: _____ 4. Name of the inventor: _____ 5. Name of the agent: _____ 6. Name of the examiner: _____ 7. Name of the assistant: _____ 8. Name of the secretary: _____ 9. Name of the clerk: _____ 10. Name of the translator: _____ 11. Name of the interpreter: _____ 12. Name of the stenographer: _____ 13. Name of the typist: _____ 14. Name of the printer: _____ 15. Name of the binder: _____ 16. Name of the folder: _____ 17. Name of the envelope: _____ 18. Name of the label: _____ 19. Name of the stamp: _____ 20. Name of the seal: _____ 21. Name of the ribbon: _____ 22. Name of the string: _____ 23. Name of the cord: _____ 24. Name of the chain: _____ 25. Name of the link: _____ 26. Name of the joint: _____ 27. Name of the fastener: _____ 28. Name of the clip: _____ 29. Name of the staple: _____ 30. Name of the pin: _____ 31. Name of the needle: _____ 32. Name of the thread: _____ 33. Name of the yarn: _____ 34. Name of the fabric: _____ 35. Name of the paper: _____ 36. Name of the card: _____ 37. Name of the book: _____ 38. Name of the magazine: _____ 39. Name of the newspaper: _____ 40. Name of the journal: _____ 41. Name of the encyclopedia: _____ 42. Name of the dictionary: _____ 43. Name of the atlas: _____ 44. Name of the map: _____ 45. Name of the globe: _____ 46. Name of the compass: _____ 47. Name of the clock: _____ 48. Name of the watch: _____ 49. Name of the calendar: _____ 50. Name of the diary: _____ 51. Name of the notebook: _____ 52. Name of the folder: _____ 53. Name of the envelope: _____ 54. Name of the label: _____ 55. Name of the stamp: _____ 56. Name of the seal: _____ 57. Name of the ribbon: _____ 58. Name of the string: _____ 59. Name of the cord: _____ 60. Name of the chain: _____ 61. Name of the link: _____ 62. Name of the joint: _____ 63. 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