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(54) **Emitting material and organic light emitting diode using the same**

(57) The present invention provides a novel structure of a light emitting material and an organic light emitting diode using the same.

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## EUROPEAN SEARCH REPORT

Application Number  
EP 10 19 6766

| DOCUMENTS CONSIDERED TO BE RELEVANT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                     |                                  |                                         |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-----------------------------------------|
| Category                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Citation of document with indication, where appropriate, of relevant passages                                                                       | Relevant to claim                | CLASSIFICATION OF THE APPLICATION (IPC) |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                     |                                  | C09K<br>H01L<br>H05B<br>C07C<br>C07D    |
| Place of search                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                     | Date of completion of the search | Examiner                                |
| The Hague                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                     | 22 March 2011                    | Ziegler, Jan                            |
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2

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**ANNEX TO THE EUROPEAN SEARCH REPORT  
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EP 10 19 6766

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22-03-2011

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|                |                                                                                                                                                                                                         |         |            |
|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|------------|
| 专利名称(译)        | 发光材料和使用其的有机发光二极管                                                                                                                                                                                        |         |            |
| 公开(公告)号        | <a href="#">EP2305769A3</a>                                                                                                                                                                             | 公开(公告)日 | 2011-04-27 |
| 申请号            | EP2010196766                                                                                                                                                                                            | 申请日     | 2006-11-17 |
| [标]申请(专利权)人(译) | 乐金化学股份有限公司                                                                                                                                                                                              |         |            |
| 申请(专利权)人(译)    | LG化学有限公司.                                                                                                                                                                                               |         |            |
| 当前申请(专利权)人(译)  | LG化学有限公司.                                                                                                                                                                                               |         |            |
| [标]发明人         | KIM KONG KYEOM<br>JANG HYE YOUNG<br>HONG SUNG KIL<br>YEO SUNG JIN<br>JEON SANG YOUNG                                                                                                                    |         |            |
| 发明人            | KIM, KONG-KYEOM<br>JANG, HYE-YOUNG<br>HONG, SUNG-KIL<br>YEO, SUNG-JIN<br>JEON, SANG-YOUNG                                                                                                               |         |            |
| IPC分类号         | C09K11/06                                                                                                                                                                                               |         |            |
| CPC分类号         | C09K11/06 C07C13/62 C07C15/60 C07C211/54 C07C2603/24 C07D209/86 C07D333/08 C09K2211/1011 C09K2211/1014 C09K2211/1029 C09K2211/1092 H01L51/0055 H01L51/0058 H01L51/006 H01L51/5012 H05B33/14 Y10S428/917 |         |            |
| 优先权            | 1020060044097 2006-05-17 KR<br>1020050111004 2005-11-18 KR                                                                                                                                              |         |            |
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## 摘要(译)

本发明提供发光材料的新颖结构和使用该结构的有机发光二极管。

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|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|-------------------------------|-----------------------------------------|-------------------------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                             | <b>EUROPEAN SEARCH REPORT</b> |                                         | Application Number<br>EP 10 19 6766 |
| <b>DOCUMENTS CONSIDERED TO BE RELEVANT</b>                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                             |                               |                                         |                                     |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Citation of documents with indication, where appropriate, of relevant passages.                             | Relevant to claim             | CLASSIFICATION OF THE APPLICATION (IPC) |                                     |
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| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | JP 2000 273056 A (IDEMITSU KOSAN CO) 3 October 2000 (2000-10-03) * compounds E-1 *                          | 1-9                           |                                         |                                     |
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| The present search report has been drawn up for all claims                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                             |                               |                                         |                                     |
| The Hague                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                             | 22 March 2011                 | Ziegler, Jan                            |                                     |
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| 1: prior art document (not a patent document)<br>2: non-patent literature (not a patent document)<br>3: patent document (not a patent document)<br>4: patent document (not a patent document)<br>5: patent document (not a patent document)<br>6: patent document (not a patent document)<br>7: patent document (not a patent document)<br>8: patent document (not a patent document)<br>9: patent document (not a patent document)<br>10: patent document (not a patent document) |                                                                                                             |                               |                                         |                                     |