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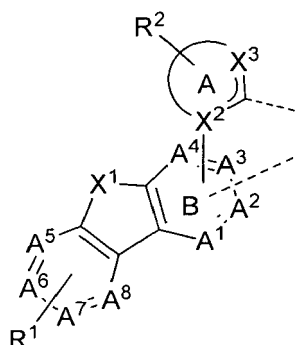
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(54) **Organic electroluminescent materials and devices**

(57) According to one embodiment, a compound comprising a ligand L_A of Formula I



L_A is coordinated to a metal M; and the ligand L_A is optionally linked with other ligands to comprise up to a hexadentate ligand. Formulations and devices, such as an OLEDs, that include the compound comprising ligand L_A of formula I are also described.

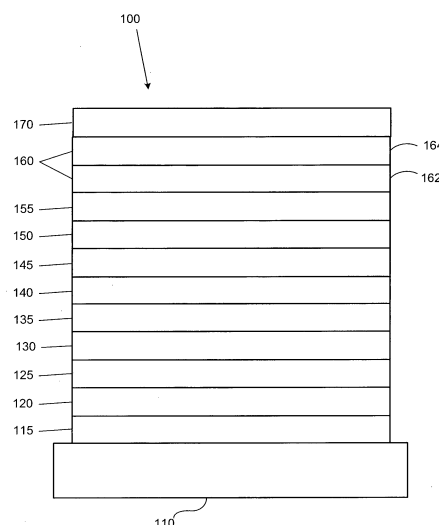


FIGURE 1



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			TECHNICAL FIELDS SEARCHED (IPC)
			H01L
The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 28 May 2015	Examiner Konrádsson, Ásgeir
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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**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

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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
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摘要(译)

根据一个实施方案，描述了包含式I的配体LA的化合物。在式I的结构中，A1至A8独立地为碳或氮，其中至少一个为氮；X1选自O，S和Se；X2和X3独立地选自C，N，O，P和S；环A是通过X2-C键与环B键合并通过金属-卡宾键与M键合的5-或6-元杂环；R1和R2中的任何相邻取代基任选连接在一起形成环；配体LA与金属M配位；并且配体LA任选地与其他配体连接以包含至多六齿配体。还描述了包含含有式I配体LA的化合物的制剂和装置，例如OLED。

