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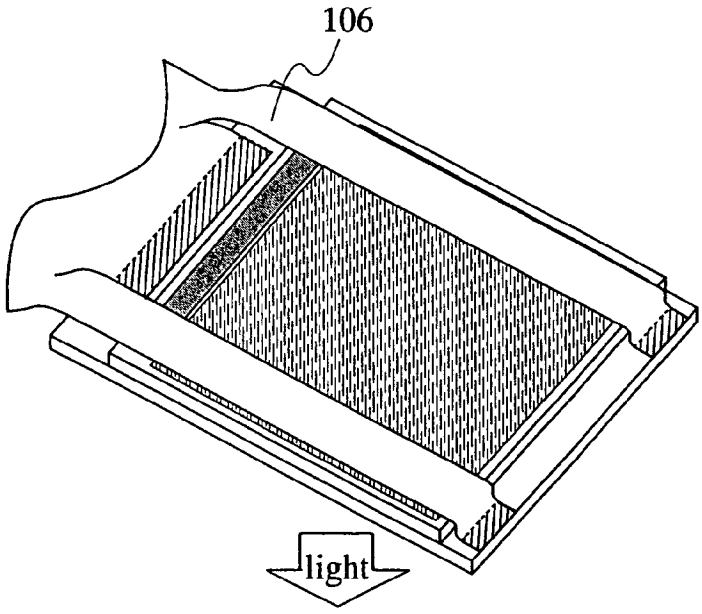
(54) Organic electroluminescent display

(57) The invention provides a display device having a structure for preventing a voltage drop of anode lines or cathode lines as well as realizing a narrow frame. According to the invention, a narrow frame can be realized and a voltage drop of a lead wiring can be suppressed by substituting a lead wiring which conventionally occupied a large area in a frame region by an external wiring such as an FPC, a sealing can, and a conductive film formed on a counter substrate.

FIG. 1C



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PARTIAL EUROPEAN SEARCH REPORT

which under Rule 63 of the European Patent Convention shall be considered, for the purposes of subsequent proceedings, as the European search report

Application Number EP 04 02 7135

DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	US 2003/045016 A1 (SAITO YASUYUKI [JP] ET AL) 6 March 2003 (2003-03-06) * paragraphs [0031] - [0038]; figures 1,2,5-8,11,12 *	1,3,5-7, 25	INV. H01L51/10 H01L51/20 H01L27/15
A,P	EP 1 416 460 A1 (TOSHIBA KK [JP]) 6 May 2004 (2004-05-06) * paragraphs [0023] - [0027], [0037] - [0063]; figures 8-18 *	1,3-7,25	

TECHNICAL FIELDS SEARCHED (IPC)

H01L

INCOMPLETE SEARCH

The Search Division considers that the present application, or one or more of its claims, does/do not comply with the EPC to such an extent that a meaningful search into the state of the art cannot be carried out, or can only be carried out partially, for these claims.

Claims searched completely :

Claims searched incompletely :

Claims not searched :

Reason for the limitation of the search:

see sheet C

Place of search	Date of completion of the search	Examiner
Munich	30 March 2010	Boetticher, Harald

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

EPO FORM 1503 03.82 (P04E07)

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INCOMPLETE SEARCH SHEET C

Application Number
EP 04 02 7135

Claim(s) searched incompletely:
1, 3-6, 25

Claim(s) not searched:
2, 7-24, 26-52

Reason for the limitation of the search:

In claim 1, the difference between "external connecting portions" and "the closer external connecting portions" is obscure. Fig. 10D shows closer external connecting portions 1309, in view of page 33 lines 8, 9, but no external connecting portions; Fig. 1A shows external connecting portions 103, 104, but no closer external connecting portions; comparing Figs. 1A and 10D does not make evident distinguishing features.
When ignoring the difference, US 2003/0045016 (D1), Figs. 1, 2 and corresponding text should be novelty destroying. This would cause a lack of unity under Article 82 EPC since the various independent claims 1, 2, 10 to 21 would not be linked by a single general inventive concept, nor could claim 1 link by a single general inventive concept the claims dependent on claim 1. Asking for further search fees due to a lack of unity however requires that the various inventions can be clearly defined, which is not the case here. Accordingly, searching has been stopped, rendering the search incomplete.

ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO. EP 04 02 7135

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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30-03-2010

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
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EP 1416460 A1	06-05-2004	CN 1465037 A	31-12-2003
		WO 03017238 A1	27-02-2003
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		JP 2003058074 A	28-02-2003
		TW 556243 B	01-10-2003

EPO FORM P0459

For more details about this annex : see Official Journal of the European Patent Office, No. 12/82

专利名称(译)	有机电致发光显示器		
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[标]申请(专利权)人(译)	株式会社半导体能源研究所		
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IPC分类号	H01L51/10 H01L51/20 H01L27/15 G02F1/1345 H01L27/32 H01L51/52		
CPC分类号	H01L27/3288 H01L27/3276 H01L51/524 H01L51/5243 H05K1/189 H05K2201/10128		
优先权	2003391815 2003-11-21 JP		
其他公开文献	EP1533852A2		
外部链接	Espacenet		

摘要(译)

本发明提供一种显示装置，其具有用于防止阳极线或阴极线的电压降以及实现窄框架的结构。根据本发明，通过用诸如FPC，密封罐等外部布线代替传统上占据框架区域中的大面积的引线，可以实现窄框架并且可以抑制引线的电压降。和在对向基板上形成的导电膜。

FIG. 1C