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• **Arnold, Andrew D.**
Eastman Kodak Company
Rochester
New York 14650-2201 (US)

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(71) Applicant: **Eastman Kodak Company**
Rochester NY 14650-2201 (US)

(74) Representative: **Wibbelmann, Jobst et al**
Wuesthoff & Wuesthoff
Patent- und Rechtsanwälte
Schweigerstrasse 2
81541 München (DE)

(72) Inventors:
• **Cok, Ronald S.,**
Eastman Kodak Company
Rochester
New York 14650-2201 (US)

(54) **An oled display with aging compensation**

(57) An OLED display includes a plurality of light emitting elements divided into two or more groups, the light emitting elements having an output that changes with time or use; a current measuring device for sensing the total current used by the display to produce a current signal; and a controller for simultaneously activating all

of the light emitting elements in a group and responsive to the current signal for calculating a correction signal for the light emitting elements in the group and applying the correction signal to input image signals to produce corrected input image signals that compensate for the changes in the output of the light emitting elements of the group.

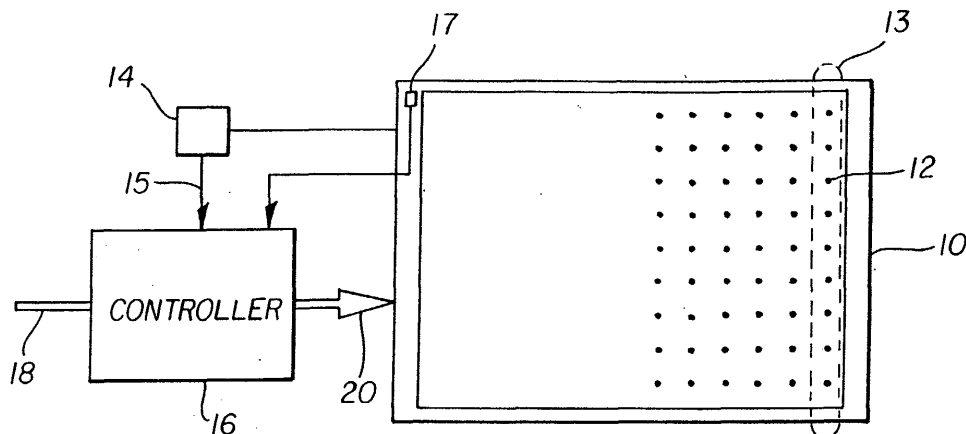


FIG. 1

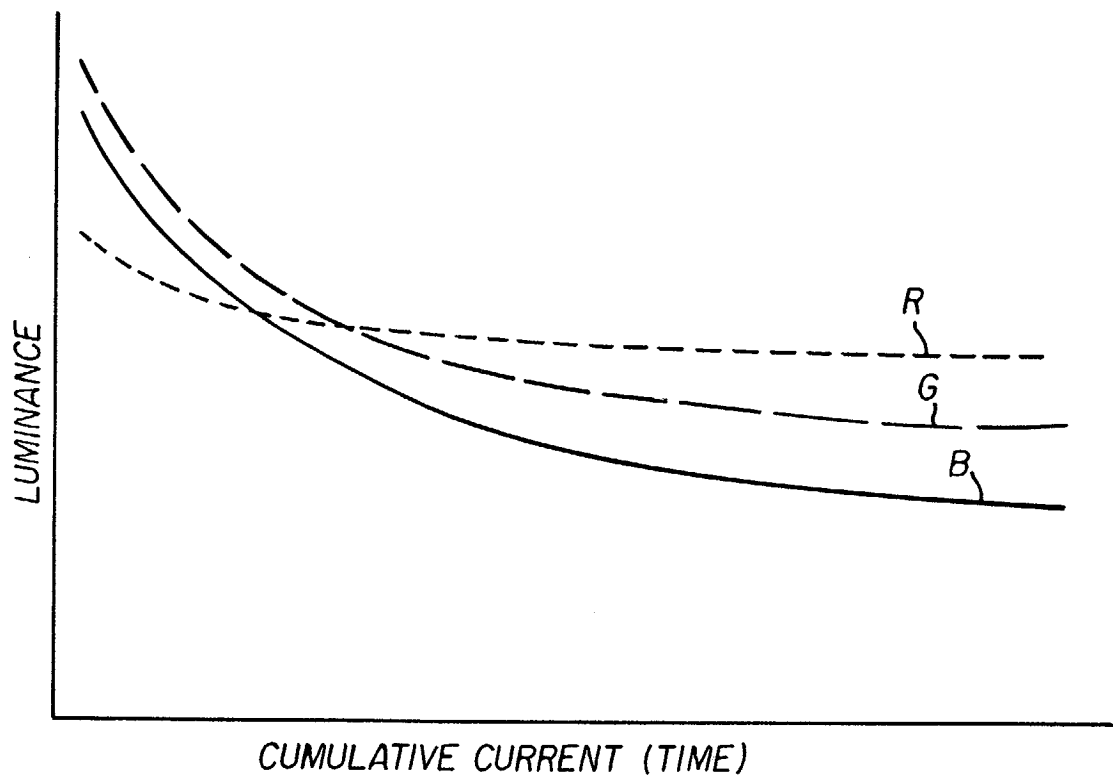


FIG. 2



EUROPEAN SEARCH REPORT

Application Number
EP 04 07 5154

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Y	* paragraphs [0001], [0005], [0007], [0101] - [0109]; figures 1,6,17,18,21a,21b *	2-3	
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Y	* paragraphs [0001], [0011], [0069] - [0081], [0095] - [0099]; figures 12-14, 23 *	2-3	
Y,D	JP 2002 278514 A (SHARP KK) 27 September 2002 (2002-09-27) * paragraphs [0009], [0062], [0065] - [0066], [0087]; figures 7, 13, 15 *	2	
Y	EP 1 227 466 A2 (SEMICONDUCTOR ENERGY LAB [JP]) 31 July 2002 (2002-07-31) * paragraphs [0036], [0044] - [0047]; figures 1, 5 *	3	TECHNICAL FIELDS SEARCHED (IPC)
			G09G
The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 11 January 2010	Examiner Ley, Théodore
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 03.82 (P04C01)

**ANNEX TO THE EUROPEAN SEARCH REPORT
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EP 04 07 5154

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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11-01-2010

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专利名称(译)	具有老化补偿的oled显示器		
公开(公告)号	EP1443484A3	公开(公告)日	2010-02-17
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[标]申请(专利权)人(译)	伊斯曼柯达公司		
申请(专利权)人(译)	伊士曼柯达公司		
当前申请(专利权)人(译)	全球OLED科技有限责任公司		
[标]发明人	COK RONALD S EASTMAN KODAK COMPANY ARNOLD ANDREW D EASTMAN KODAK COMPANY		
发明人	COK, RONALD S., EASTMAN KODAK COMPANY ARNOLD, ANDREW D. EASTMAN KODAK COMPANY		
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CPC分类号	G09G3/3208 G09G2320/0295 G09G2320/041 G09G2320/048 G09G2320/0693		
优先权	10/355922 2003-01-31 US		
其他公开文献	EP1443484A2		
外部链接	Espacenet		

摘要(译)

OLED显示器包括分成两组或更多组的多个发光元件，发光元件具有随时间变化或使用的输出；电流测量装置，用于检测显示器用于产生电流信号的总电流；控制器，用于同时激活一组中的所有发光元件并响应于该电流信号，用于计算该组中的发光元件的校正信号，并将该校正信号施加到输入图像信号，以产生校正的输入图像信号，补偿组中发光元件输出的变化。

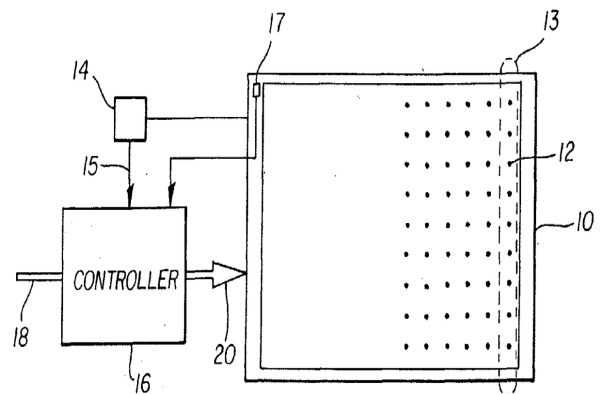


FIG. 1