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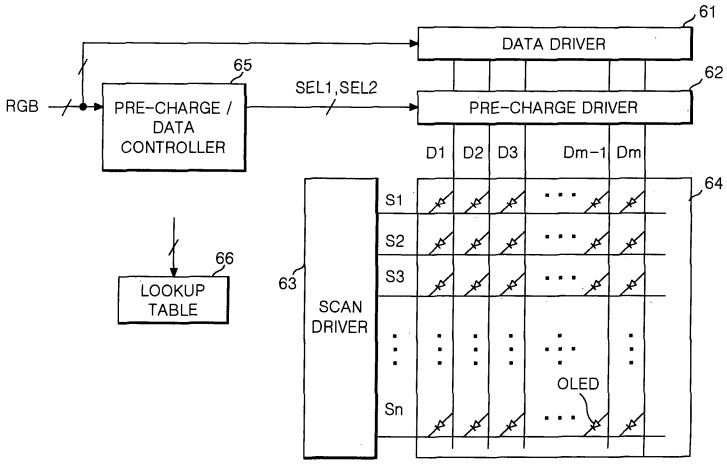
(54) Organic electro luminescent display device and driving method thereof

(57) The present invention relates to an organic electro luminescence display device using a pre-charge, and a driving method thereof.

An organic electro luminescence display device according to an embodiment of the present invention includes: a display panel where a plurality of data lines cross a plurality of gate lines, and electro luminescence elements are arranged at intersections thereof; a pre-charge driver to select a current which is different in accordance with a gray level of data and to supply the pre-charge current to the electro luminescence elements through the data line; and a data driver to supply a data to the electro luminescence elements which are charged with the pre-charge current.

FIG. 7



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EUROPEAN SEARCH REPORT

Application Number
EP 05 01 1549

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	WO 03/034390 A (CLARE MICRONIX INTEGRATED SYSTEMS, INC) 24 April 2003 (2003-04-24) * abstract * * paragraphs [0003], [0013], [0018], [0042]; figures 1-8 * -----	1-19	INV. G09G3/32
X	US 2002/169575 A1 (EVERITT JAMES) 14 November 2002 (2002-11-14) * abstract * * paragraphs [0004], [0008], [0015], [0028] - [0042]; figures 1-6 * -----	1-19	

TECHNICAL FIELDS SEARCHED (IPC)

G09G

The present search report has been drawn up for all claims

Place of search	Date of completion of the search	Examiner
Munich	18 July 2006	Wolff, L

CATEGORY OF CITED DOCUMENTS

X : particularly relevant if taken alone
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A : technological background
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ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO. EP 05 01 1549

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US 2002169575 A1	14-11-2002	AU 2002257260 A1	18-11-2002
		WO 02091342 A2	14-11-2002

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

专利名称(译)	有机电致发光显示装置及其驱动方法		
公开(公告)号	EP1605432A3	公开(公告)日	2006-08-30
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申请(专利权)人(译)	LG电子株式会社.		
当前申请(专利权)人(译)	LG DISPLAY CO. , LTD.		
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外部链接	Espacenet		

摘要(译)

本发明涉及一种使用预充电的有机电致发光显示装置及其驱动方法。根据本发明实施例的有机电致发光显示装置包括：显示面板，其中多条数据线与多条栅极线交叉，并且电致发光元件布置在其交叉点处;预充电驱动器，用于根据灰度级数据选择不同的电流，并通过数据线向电致发光元件提供预充电电流;数据驱动器，用于向预充电电流充电的电致发光元件提供数据。

FIG.7