

(19) United States

(12) Patent Application Publication (10) Pub. No.: US 2005/0099412 A1 Kasai

May 12, 2005 (43) Pub. Date:

- (54) PIXEL CIRCUIT, METHOD OF DRIVING THE SAME, AND ELECTRONIC APPARATUS
- (75) Inventor: **Toshiyuki Kasai**, Okaya-shi (JP)

Correspondence Address: **OLIFF & BERRIDGE, PLC** P.O. BOX 19928 ALEXANDRIA, VA 22320 (US)

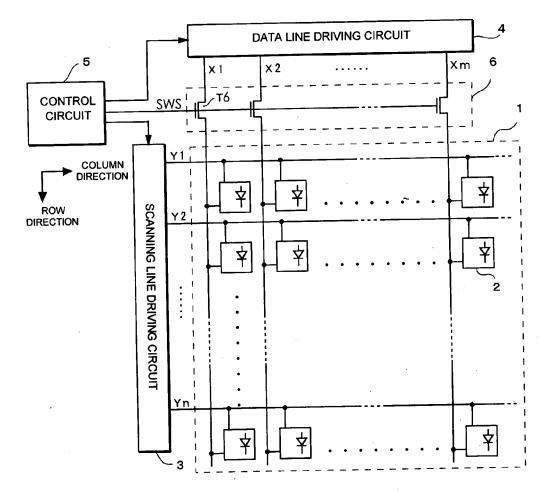
- (73) Assignee: Seiko Epson Corporation, Tokyo (JP)
- Appl. No.: 10/930,947
- (22)Filed: Sep. 1, 2004
- (30)Foreign Application Priority Data

Nov. 11, 2003 (JP) 2003-381271

Publication Classification

(57)**ABSTRACT**

To control variation in a driving current depending on Vth in a current program mode pixel circuit. In a state in which a variable current source 4a and a transistor T3 are electrically isolated from each other, a gate voltage of the diodeconnected transistor T3 is set to an offset voltage (Vdd-Vth) according to a threshold voltage Vth thereof. Next, in a state in which the variable current source 4a and the transistor T3 are electrically connected to each other, data based on the offset voltage and according to a product of a data current Idata and a supply time thereof are written in a capacitor C1 connected to a gate of the transistor T3. And then, a driving current according to data stored in the capacitor C1 is generated by means of the transistor T3, whereby brightness of an organic EL element OLED is set.



LG Display Co., Ltd. Exhibit 1022



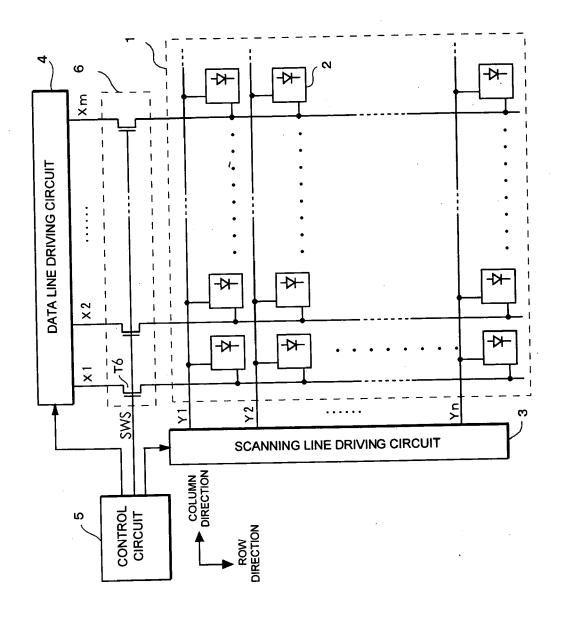


FIG.1



FIG.2

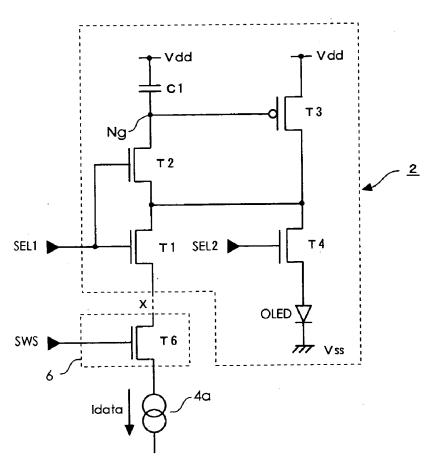
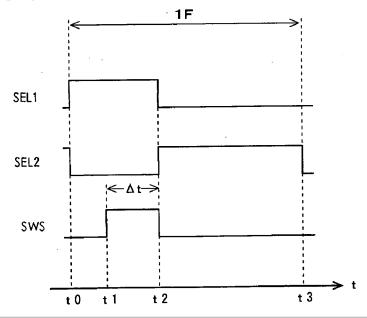


FIG.3





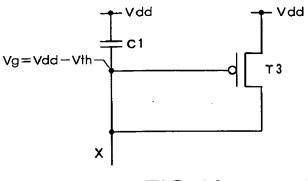
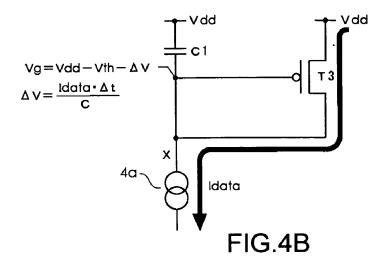


FIG.4A



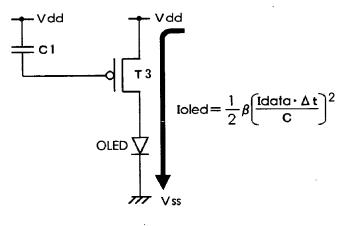
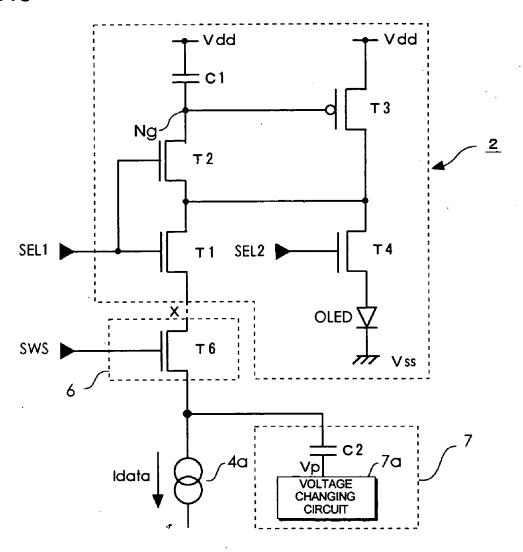


FIG.4C

FIG.5



DOCKET

Explore Litigation Insights



Docket Alarm provides insights to develop a more informed litigation strategy and the peace of mind of knowing you're on top of things.

Real-Time Litigation Alerts



Keep your litigation team up-to-date with **real-time** alerts and advanced team management tools built for the enterprise, all while greatly reducing PACER spend.

Our comprehensive service means we can handle Federal, State, and Administrative courts across the country.

Advanced Docket Research



With over 230 million records, Docket Alarm's cloud-native docket research platform finds what other services can't. Coverage includes Federal, State, plus PTAB, TTAB, ITC and NLRB decisions, all in one place.

Identify arguments that have been successful in the past with full text, pinpoint searching. Link to case law cited within any court document via Fastcase.

Analytics At Your Fingertips



Learn what happened the last time a particular judge, opposing counsel or company faced cases similar to yours.

Advanced out-of-the-box PTAB and TTAB analytics are always at your fingertips.

API

Docket Alarm offers a powerful API (application programming interface) to developers that want to integrate case filings into their apps.

LAW FIRMS

Build custom dashboards for your attorneys and clients with live data direct from the court.

Automate many repetitive legal tasks like conflict checks, document management, and marketing.

FINANCIAL INSTITUTIONS

Litigation and bankruptcy checks for companies and debtors.

E-DISCOVERY AND LEGAL VENDORS

Sync your system to PACER to automate legal marketing.

