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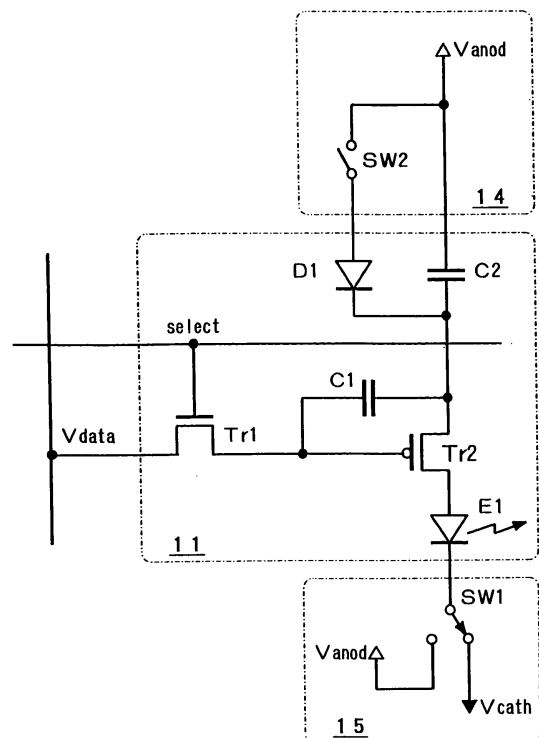
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(54) **Current supply device for a pixel of an active matrix light emitting display device**

(57) In order to provide, as a lighting means for a pixel including a driving TFT and an EL element, a driving device of a light emitting display panel which can dissolve respective technical problems which occur in cases where respective constant voltage driving and constant current driving techniques are adopted, a light emitting power holding capacitor (C2) is connected in series to the driving TFT (Tr2) and the EL element (E1). A diode (D1) for charging electrical charges in the capacitor (C2) and a switching element (SW2) for supplying current to the diode (D1) are provided. By an ON operation of the switching element (SW2) both ends of the capacitor (C2) is subjected to a charge operation so as to become equipotentials. By an OFF operation of the switching element (SW2), driving current flows in the EL element (E1) via the driving TFT (Tr2). The amount of current flowing in the EL element (E1) is controlled by the repeat frequency of ON/OFF of the switching element (SW2) during the generation period of a latch signal.

FIG. 2





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| CATEGORY OF CITED DOCUMENTS | | 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 | |
| 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 | | | |

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| 专利名称(译) | 用于有源矩阵发光显示装置的像素的电流供应装置 | | |
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| [标]申请(专利权)人(译) | 东北先锋股份有限公司 | | |
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摘要(译)

为了提供包括驱动TFT和EL元件的像素的发光装置，提供一种发光显示板的驱动装置，其能够解决在各自的恒压驱动和恒流驱动技术的情况下出现的各种技术问题。如果采用发光功率保持电容器（C2）与驱动TFT（Tr2）和EL元件（E1）串联连接。提供了用于对电容器（C2）中的电荷充电的二极管（D1）和用于向二极管（D1）提供电流的开关元件（SW2）。通过开关元件（SW2）的接通操作，电容器（C2）的两端经受充电操作以便成为等电位。通过开关元件（SW2）的断开操作，驱动电流经由驱动TFT（Tr2）流入EL元件（E1）。在锁存信号的产生周期期间，通过开关元件（SW2）的接通/断开的重复频率来控制EL元件（E1）中流动的电流。

FIG. 2

