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(54) **VOLTAGE-PROGRAMMING SCHEME FOR CURRENT-DRIVEN AMOLED DISPLAYS**

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See application file for complete search history.

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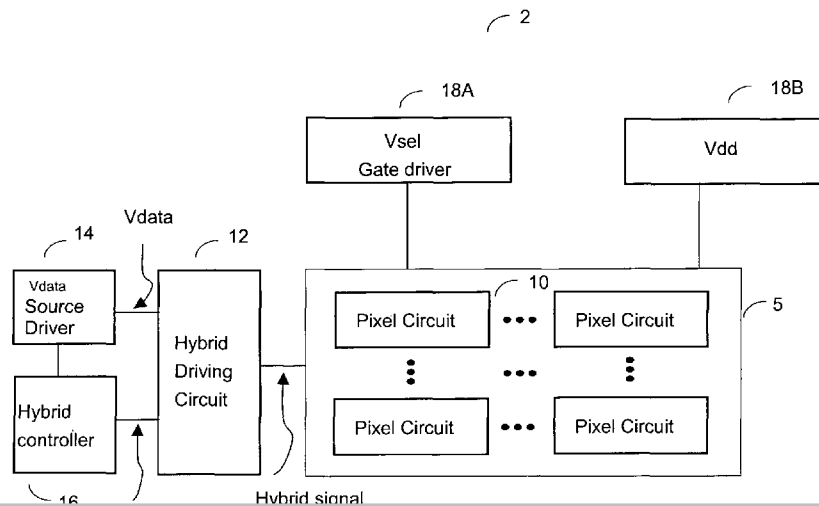
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(57) **ABSTRACT**

A system and method for driving an AMOLED display is provided. The AMOLED display includes a plurality of pixel circuits. A voltage-programming scheme, a current-programming scheme or a combination thereof is applied to drive the display. Threshold shift information, and/or voltage necessary to obtain hybrid driving circuit may be acquired. A data sampling may be implemented to acquire a current/voltage relationship. A feedback operation may be implemented to correct the brightness of the pixel.

37 Claims, 23 Drawing Sheets



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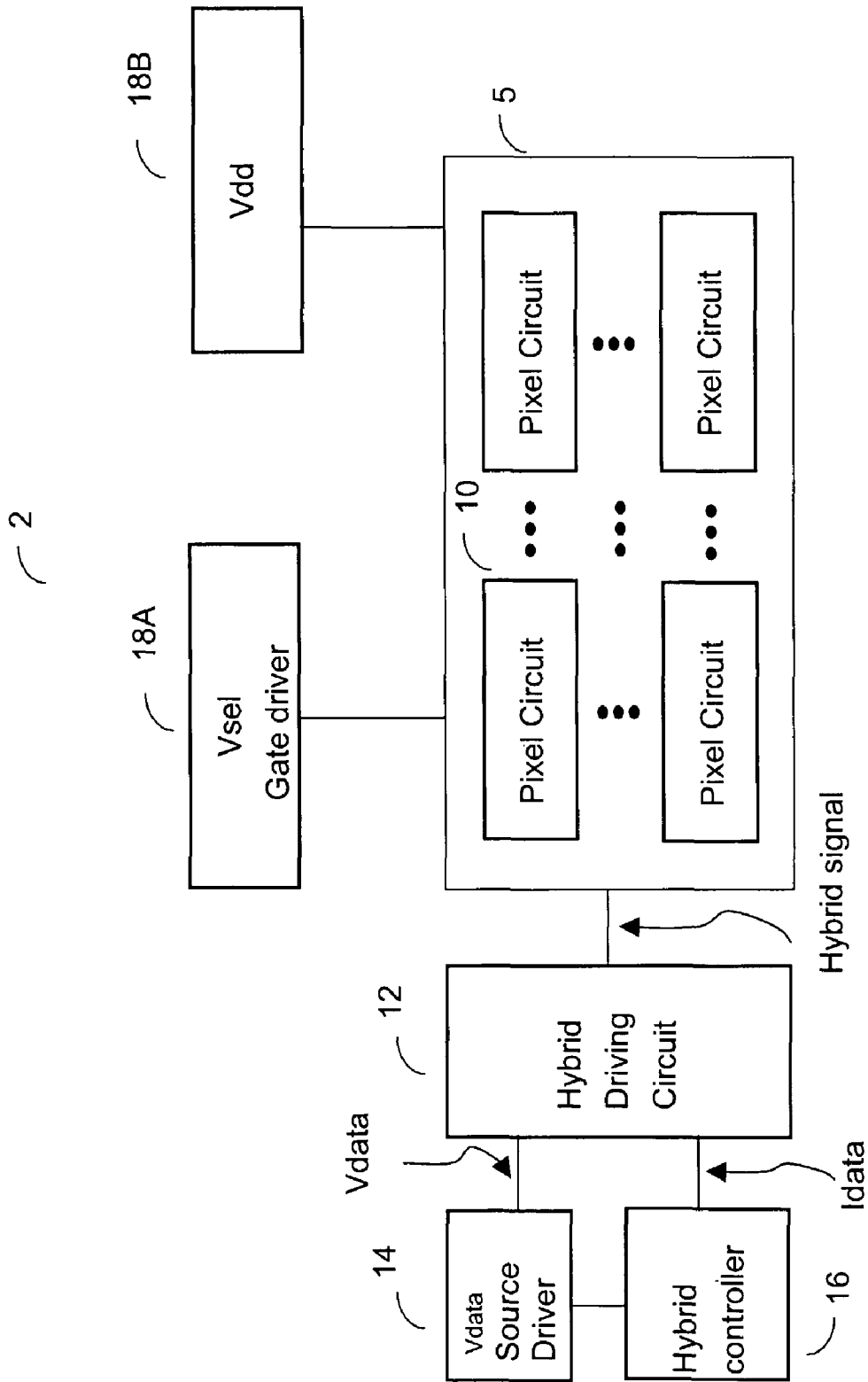


FIG. 1

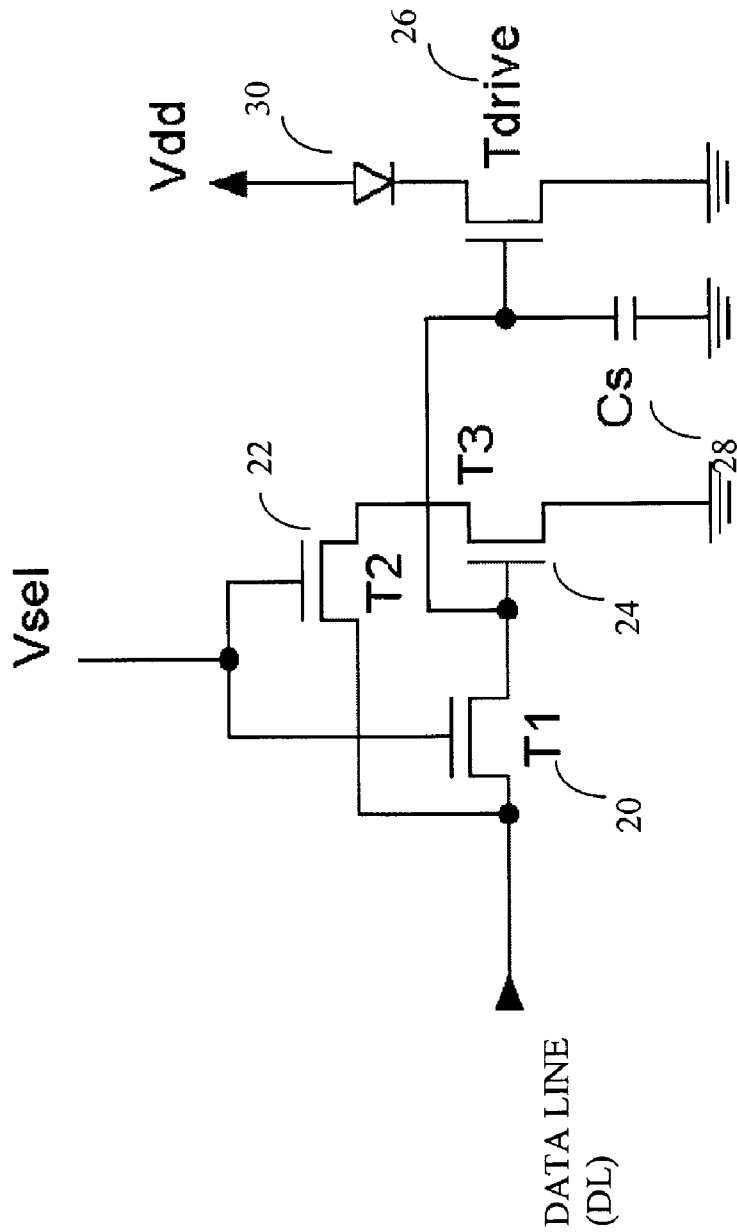


FIG. 2

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