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(54) **OVER-DRIVING COMPENSATION METHOD TO SHORTEN THE RESPONSE TIME OF A TN/STN PASSIVE MATRIX LIQUID CRYSTAL DISPLAY**

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(57) **ABSTRACT**

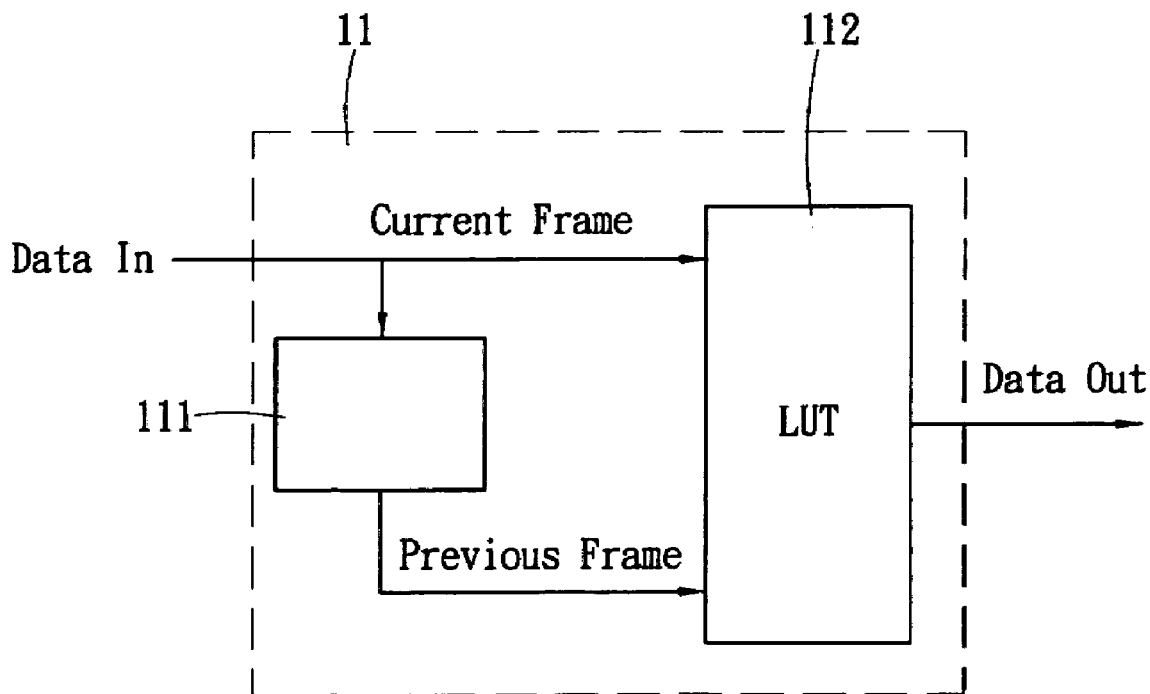
The present invention discloses an over-driving compensation method to shorten the response time of a passive matrix liquid crystal display, wherein N frames are arranged into a super-frame; the data of the current frame is compared with the data of the previous frame; once the data of the current frame is different from the data of the previous frame, the pictures are determined to be moving pictures; and when the pictures are determined to be moving pictures, an over-driving voltage, which is higher/lower than the traditional high-level driving voltage/the traditional low-level driving voltage, is assigned to each of from the *i*th frame to the *j*th frame of each super-frame. Thereby, the liquid crystal can faster approach or reach the specified target brightness. So the blurring of moving pictures will be greatly reduced.

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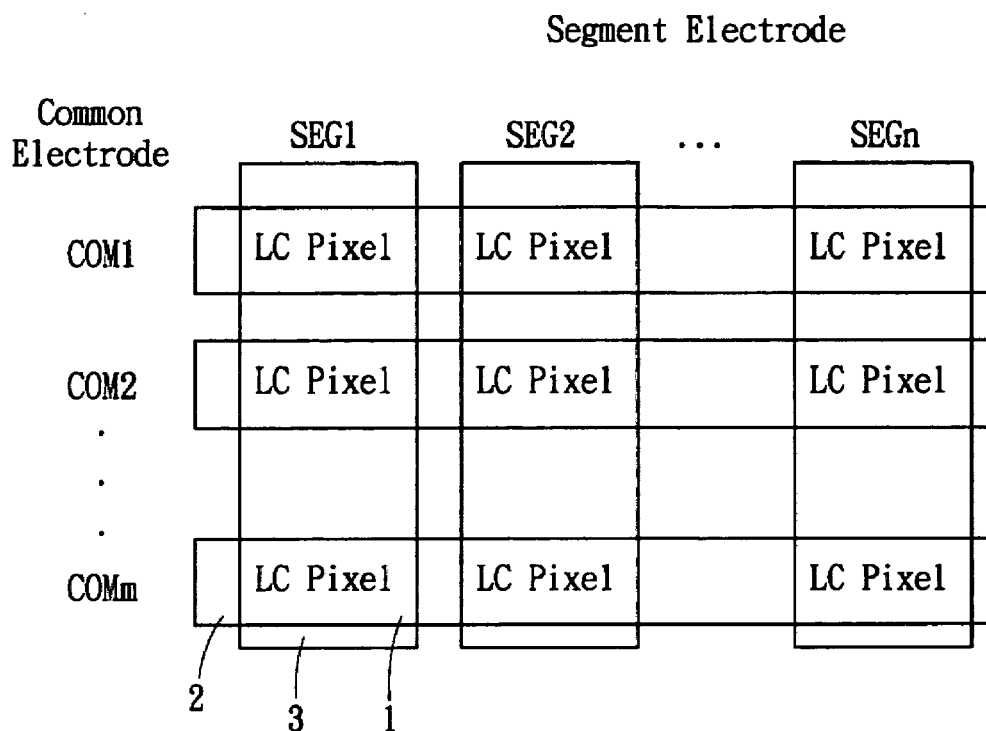


Fig . 1
PRIOR ART

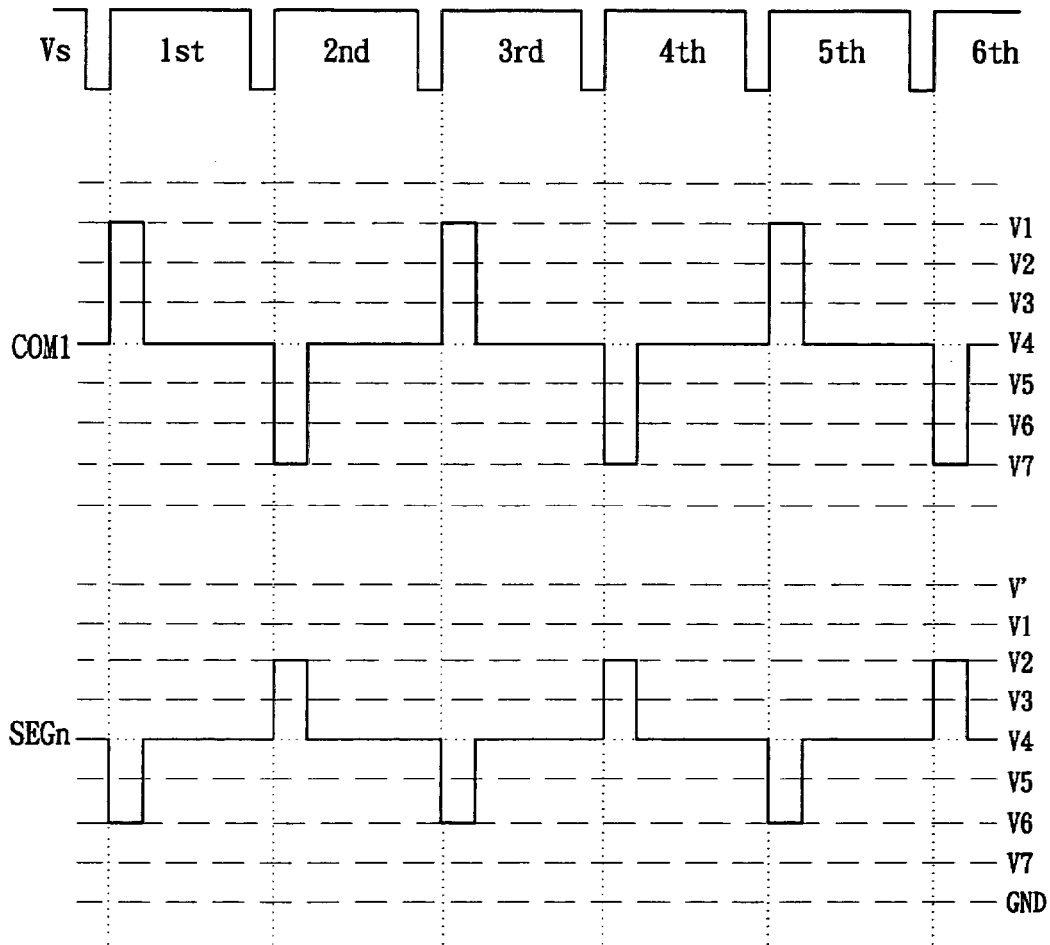


Fig . 2
PRIOR ART

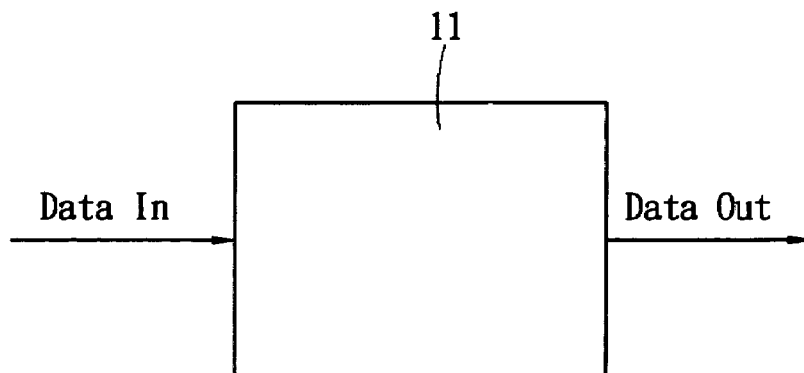


Fig . 4

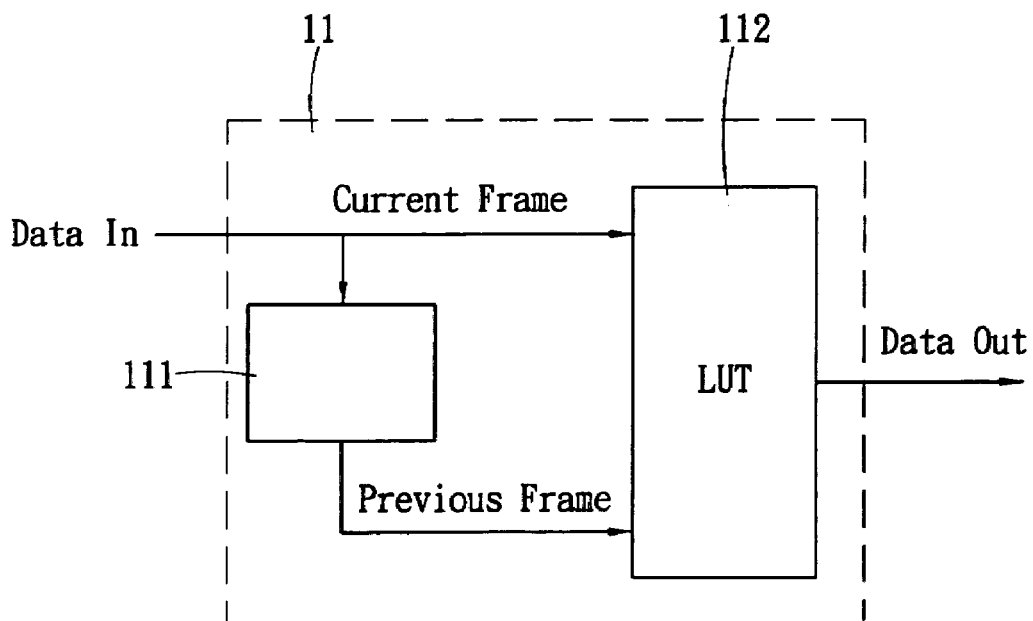


Fig . 5

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