

TITLE OF THE INVENTION:

DISPLAY APPARATUS AND METHOD OF DRIVING PIXELS THEREOF

ABSTRACT

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A display apparatus and method of driving pixels thereof are provided. The display apparatus includes a pixel array, a timing controller, a gate driver, a source driver, and an emission driving circuit. The pixel array has a plurality of self-luminous pixel circuits. The timing controller provides pixel voltage data, at least two scan start signals, and an
10 emission start signal. The gate driver, based on the scan start signals, divides a single frame period into a plurality of sub-frame periods to sequentially activate the self-luminous pixel circuits row by row. The source driver, based on the pixel voltage data, provides a plurality of pixel voltages corresponding to the self-luminous pixel circuits in each sub-frame periods to determine a driving current of an emission element of the self-luminous
15 pixel circuits. The emission driving circuit, based on the emission start signal, provides a plurality of emission signals to the self-luminous pixel circuits.

FIG. 1