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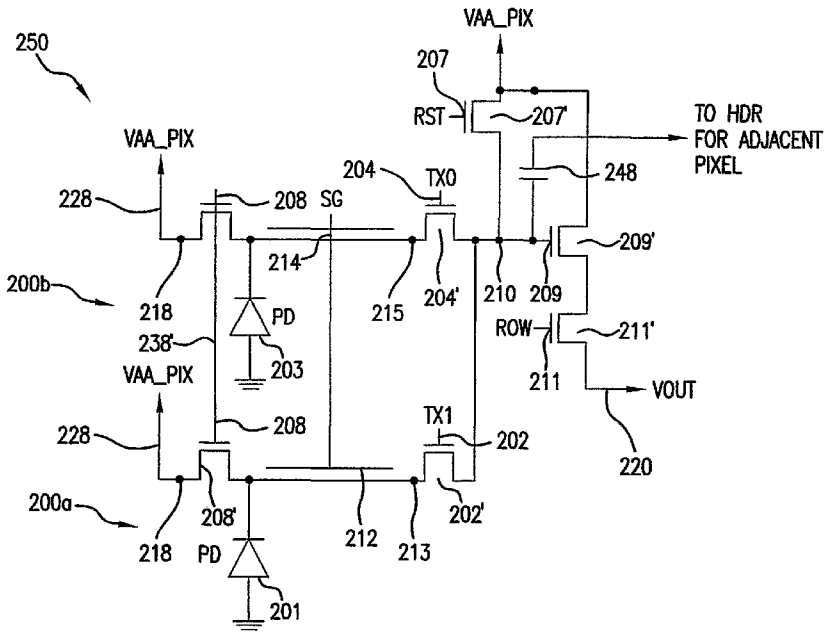
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(54) **Title:** HIGH DYNAMIC RANGE / ANTI-BLOOMING COMMON GATE ON MULTI-WAY SHARED PIXELS



(57) **Abstract:** The present invention, in the various exemplary embodiments, provides a pixel array architecture having multiple pixel cells with shared pixel cell components. The pixel architecture increases the potential fill factor, and in turn, the quantum efficiency of the pixel array. The common pixel components may be shared by a number of pixels in the array, and may include a shared gate for an providing anti-blooming characteristic of the pixels over conventional pixels. Embodiments include the multi-way sharing of a high dynamic range/anti- blooming gate and methods of operation.

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