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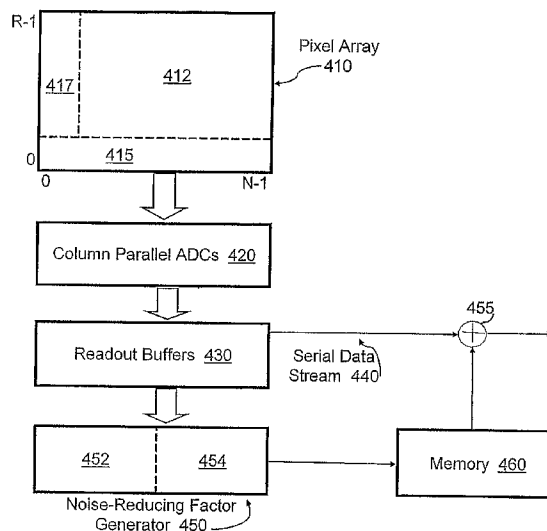
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(54) Title: METHOD AND APPARATUS PROVIDING IMAGER NOISE REDUCTION USING PARALLEL INPUT ARITHMETIC MEAN MODULES

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(57) Abstract: Noise correction values are generated through the calculation of pixel offset values and average pixel output values during a calibration procedure. For each read calibration row, an average pixel output value is determined for a plurality of pixel output values. An offset value for each of the plurality of pixel outputs is generated by finding the difference between each of the plurality of pixel outputs and the calculated average pixel output value. An offset value for an entire row of pixel outputs may also be calculated by finding the average pixel output value for a plurality of optically black pixels in the imager row. The average pixel output value for the optically black pixel values may be refined by discarding pixel values outside a threshold window and substituting the average pixel output value and calculate a new average pixel value.

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