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Wober

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(54) **FULL COLOR SINGLE PIXEL INCLUDING DOUBLET OR QUADRUPLET SI NANOWIRES FOR IMAGE SENSORS**

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(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 113 days.

This patent is subject to a terminal disclaimer.

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G02B 6/10	(2006.01)
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CPC ***H01L 31/035227*** (2013.01); ***B82Y 20/00*** (2013.01); ***B82Y 30/00*** (2013.01); ***H01L 27/14601*** (2013.01); ***H01L 27/14607*** (2013.01); *B82Y 15/00* (2013.01); *G02B 6/107* (2013.01); *G02B 6/4298* (2013.01); *Y10S 977/954* (2013.01)

(58) **Field of Classification Search**

CPC B82Y 30/00
USPC 250/214.1; 977/762
See application file for complete search history.

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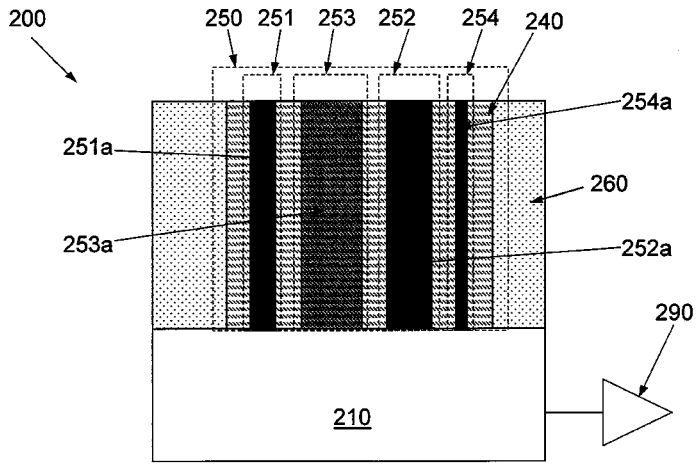
(57) **ABSTRACT**

An image sensor comprising a substrate and one or more of pixels thereon. The pixels have subpixels therein comprising nanowires sensitive to light of different color. The nanowires are functional to covert light of the colors they are sensitive to into electrical signals.

19 Claims, 9 Drawing Sheets