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(54) Title: SENSOR FOR LIFETIME PLUS SPECTRAL CHARACTERIZATION

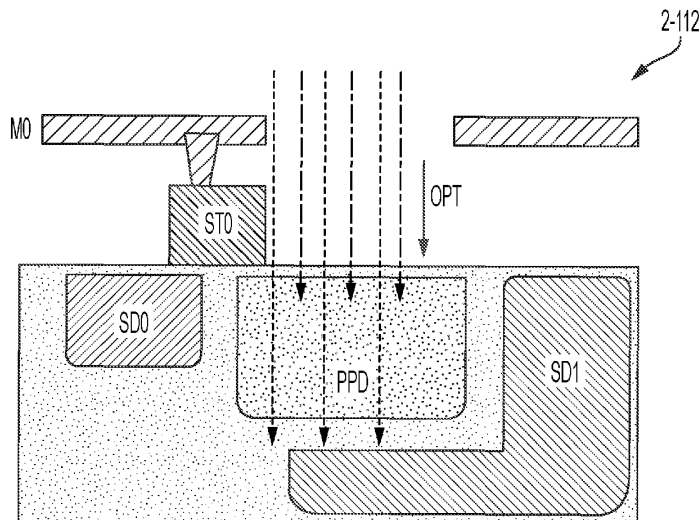


FIG. 2-1

(57) Abstract: Some aspects relate to integrated devices for obtaining timing and/or spectral information from incident light. In some embodiments, a pixel may include one or more charge storage regions configured to receive charge carriers generated responsive to incident photons from a light source, with charge carriers stored in the charge storage region(s) indicative of spectral and timing information. In some embodiments, a pixel may include regions having different depths, each configured to generate charge carriers responsive to incident photons. In some embodiments, a pixel may include multiple charge storage regions having different depths, and one or more of the charge storage regions may be configured to receive the incident photons and generate charge carriers therein. In some embodiments, a pixel may include an optical sorting element configured to direct at least some incident photons to one charge storage region and other incident photons to another charge storage region.

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