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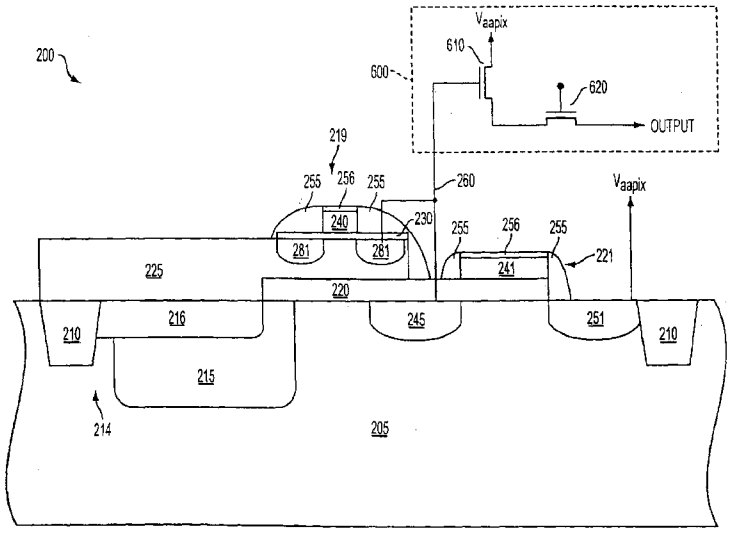
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(54) **Title:** TRANSPARENT-CHANNEL THIN-FILM TRANSISTOR-BASED PIXELS FOR HIGH-PERFORMANCE IMAGE SENSORS



(57) **Abstract:** A pixel circuit, and method of forming a pixel circuit, an imager device, and a processing system include a photo-conversion device, a floating diffusion region for receiving and storing charge from the photo-conversiort device, and a transparent transistor for use in operation of the pixel, wherein the transparent transistor is at least partially over the photo-conversion device, such that the photo-conversion device receives light passing through the transparent transistor.

WO 2008/027392 A2