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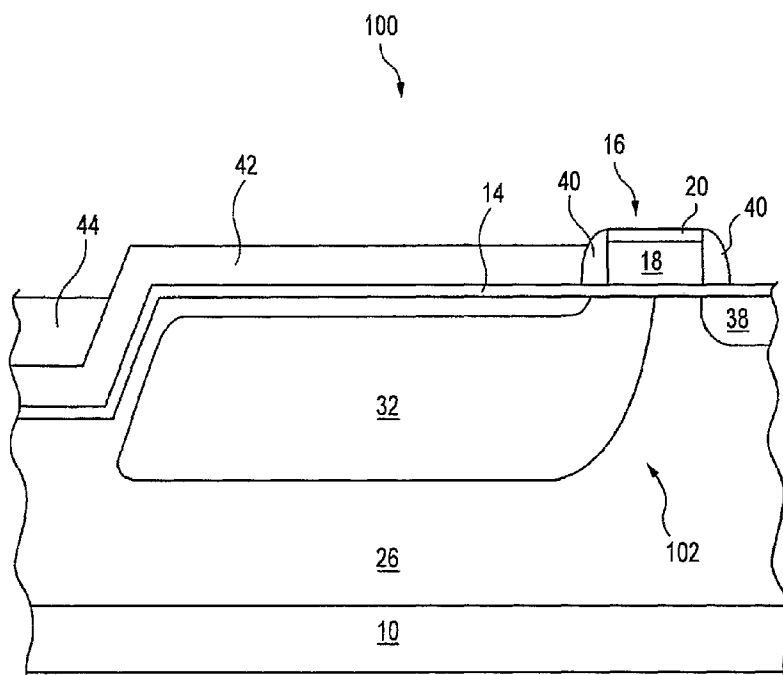
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(54) Title: **IMAGE SENSOR WITH IMPROVED SURFACE DEPLETION**



(57) Abstract: An image sensor device having a pixel cell with a pinned photodiode, which utilizes the fixed charge of an high K dielectric layer over the n-type region for the pinning effect without implanting a p-type layer over the n-type region, and methods of forming such a device.

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