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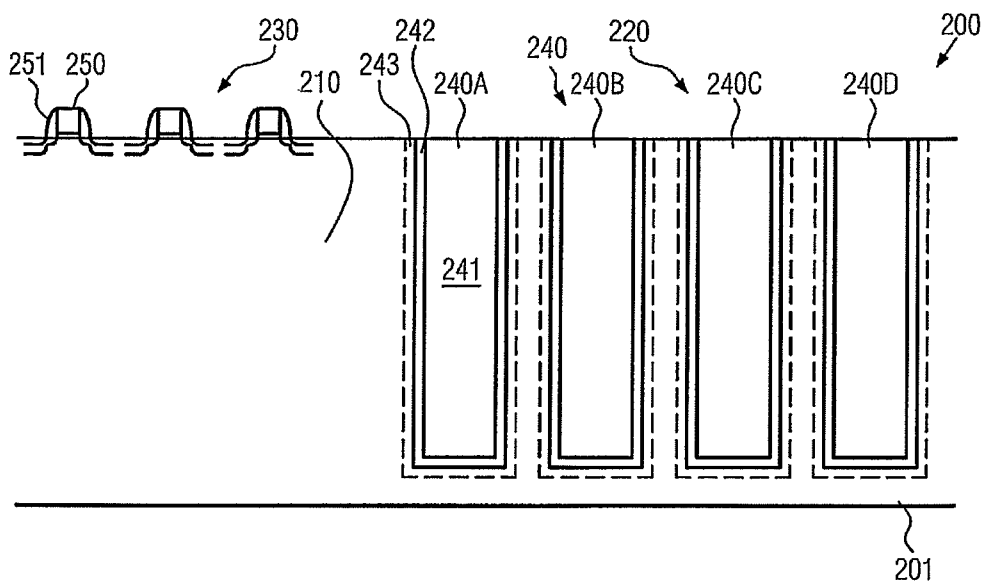
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(54) Title: A SEMICONDUCTOR DEVICE INCLUDING A VERTICAL DECOUPLING CAPACITOR



(57) Abstract: A vertical or three-dimensional non-planar configuration for a decoupling capacitor (240, 340, 440, 540) is provided, which significantly reduces the required die area for capacitors of high charge carrier storage capacity. The non-planar configuration of the decoupling capacitors (240, 340, 440, 540) also provides enhanced pattern uniformity during the highly critical gate patterning process.