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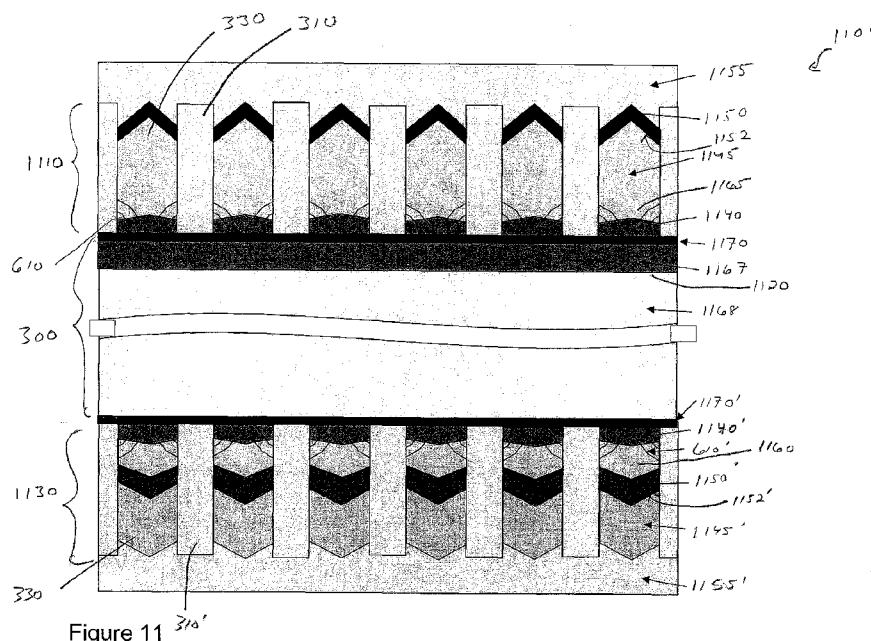


Figure 11

(57) Abstract: Solar cell structures including multiple sub-cells that incorporate different materials that may have different lattice constants. In some embodiments, solar cell devices include several photovoltaic junctions.