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(54) Title: MANUFACTURING SEMICONDUCTOR-BASED MULTI-JUNCTION PHOTOVOLTAIC DEVICES

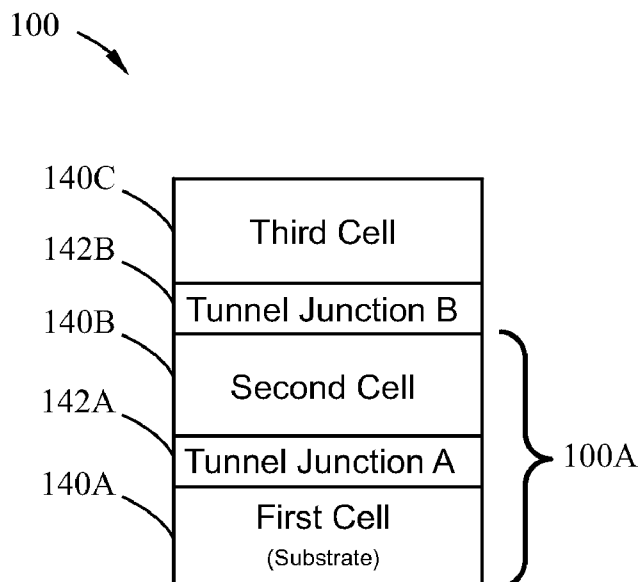


FIG. 1A

(57) Abstract: Manufacture of multi-junction solar cells, and devices thereof, are disclosed. The architectures are also adapted to provide for a more uniform and consistent fabrication of the solar cell structures, leading to improved yields and lower costs. Certain solar cells may further include one or more compositional gradients of one or more semiconductor elements in one or more semiconductor layers, resulting in a more optimal solar cell device.



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