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(54) Title: A BACK-CONTACT SOLAR CELL

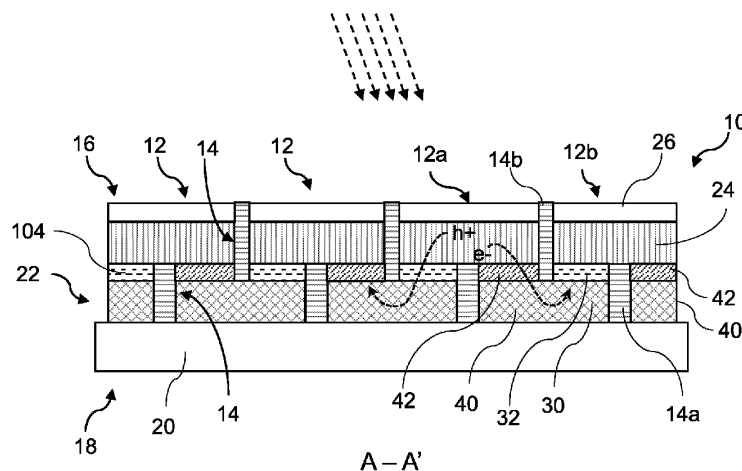


FIG. 1

(57) Abstract: Various embodiments provide a back-contact solar cell. The back-contact solar cell comprises a substrate (20). The back-contact solar cell comprises a first solar cell portion (12a) and a second solar cell portion (12b) arranged on the substrate. Each of the first and second solar cell portions comprises a light-absorber element (24) and a back-contact structure interposed between the light-absorber element and the substrate. The back-contact structure comprises a first electrode (30) and a second electrode (40), the first and second electrodes arranged on the substrate. Each of the first and second electrodes is electrically connected to the light-absorber element. The back-contact solar cell comprises an insulator assembly (14) comprising, for each solar cell portion, a first insulator (14a) that insulates the associated first electrode from the associated second electrode. The first solar cell portion is electrically connected in series with the second solar cell portion. Some other embodiments provide a method of manufacturing a back-contact solar cell.

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