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(54) **LIGHTWEIGHT SOLAR POWER
GENERATION PANEL AND METHOD OF
PREPARING SAME**

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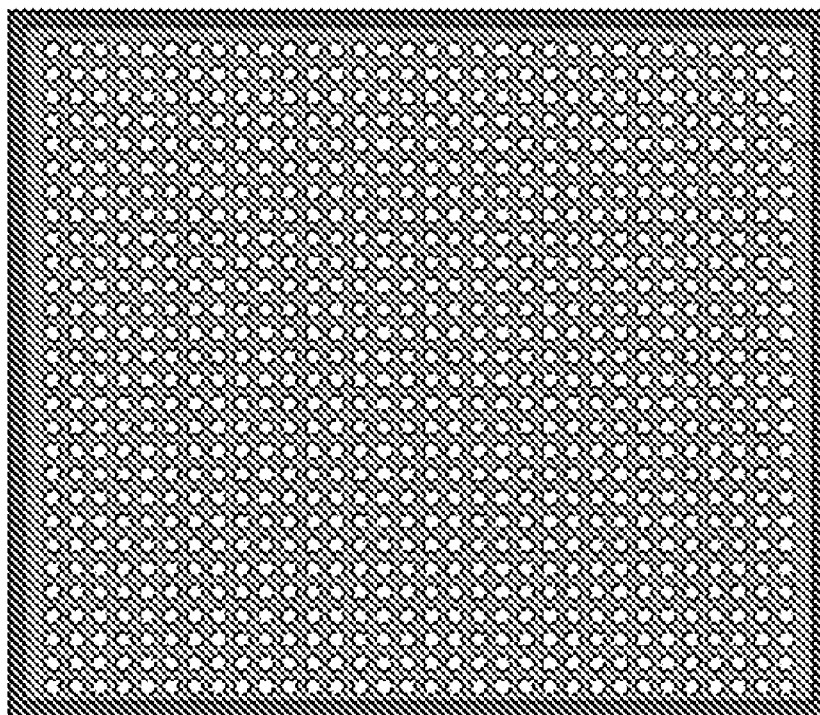
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(57) **ABSTRACT**

Provided are a lightweight solar power generation panel and a method of preparing the same. The lightweight solar power generation panel comprises a substrate, an insulating layer, a cell layer and a support layer which are stacked in sequence; a material of the substrate comprises any one or a combination of at least two of polypropylene, polyvinyl chloride, polyethylene, polymethyl methacrylate, polycarbonate, polystyrene or an acrylonitrile-butadiene-styrene copolymer. The low-density substrate material is used in the lightweight solar power generation panel provided by the present disclosure so that the entire solar power generation panel is lighter and portable.



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