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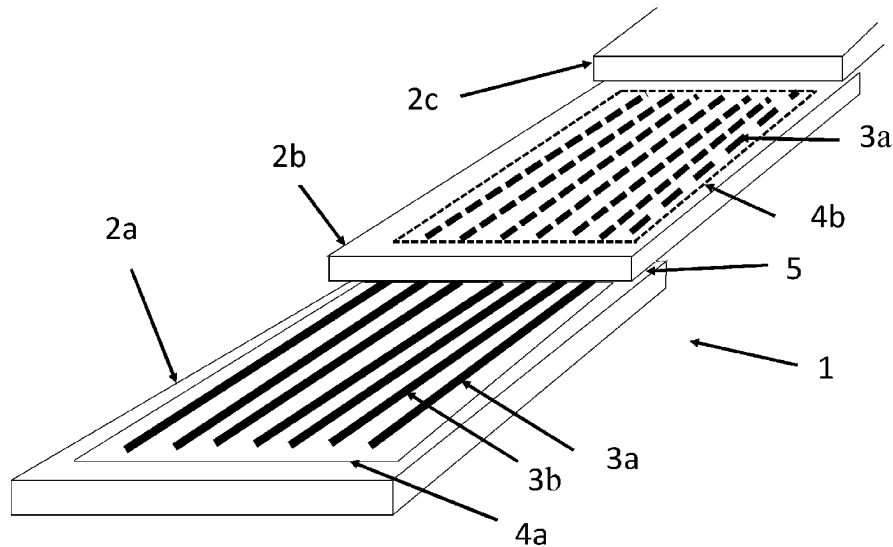
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(54) Title: IMPROVED SOLAR CELL STRING FOR USE IN A PHOTOVOLTAIC MODULE

Fig. 1



(57) Abstract: The present invention is directed to solar cell strings (1) for photovoltaic modules comprising (i) a string of solar cells (2a, 2b, 2c) facing each other in opposite polarity and shingled in string direction with or without partial overlap of solar cells (2a, 2b, 2c); (ii) at least one elongated electrically conducting interconnect (3a, 3b) extending in string direction from one side of one solar cell to the opposite side of the next solar cell (2a, 2b, 2c) for mechanically and electrically connecting the positive and negative electrodes of the shingled solar cells (2a, 2b, 2c) in string direction on the alternating top and bottom sides of the solar cells, and (iii) at least two adhesives, optionally thermoadhesive foils (4a, 4b) covering the at least one elongated interconnect (3a, 3b) and at least part of the top or bottom side of each solar cell that comprises the elongated interconnect, with the proviso that (a) there is no horizontal gap between shingled solar cells, (b) the adhesives (4a, 4b) do not contact each other, do not extend beyond one solar cell, do not extend into

WO 2021/219599 A1

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the optional partial overlap of solar cells (2a, 2b, 2c), and at least partially cover and mechanically fixate the at least one interconnect (3a, 3b) to the solar cells (2a, 2b, 2c).