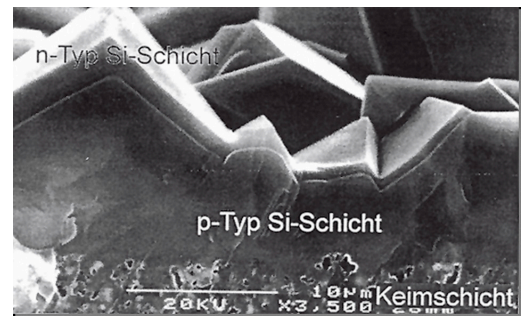


Flexible thin film solar cell

The innovation

The patented thin film solar cell is comprised of semiconducting layers, which are applied to both sides of glass/carbon fibre fabrics by means of spraying.

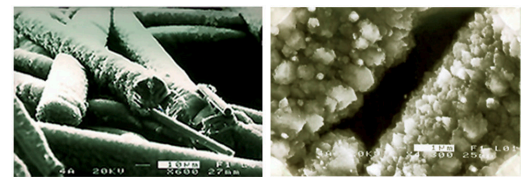
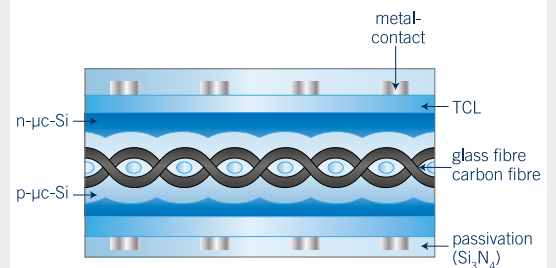
- Application of the semiconducting layers by means of spraying cyclopentasilane under noble gas atmosphere
- Double-sided coating corresponds to the parallel switching of two cells
- Use of carbon fibres as contact



Advantages at a glance

Advantages of this method to other thin film technologies:

- Reduction of investment by forgoing vacuum technologies
- Fully automatic and cost efficient manufacture by using roll-to-roll-method
- Low machinery and material costs
- Reduction of manufacturing costs up to 70%
- High flexibility for the layout of the cells for customised solutions



To acquire a licence for this new technology, please don't hesitate to contact us!

Keywords

- Solar cell
- Photovoltaic
- Thin film solar cell
- Flexible solar cell

Patent status

The invention is filed internationally. It is owned by Dritte Patentportfolio Beteiligungsgesellschaft mbH & Co. KG. The application was filed in July 2007.



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