

Title (en)  
FLEXIBLE MEMBRANE PROVIDED WITH PHOTOVOLTAIC CELLS

Title (de)  
FLEXIBLE MEMBRAN MIT FOTOVOLTAISCHEN ZELLEN

Title (fr)  
MEMBRANE FLEXIBLE EQUIPEE DE CELLULES PHOTOVOLTAÏQUES

Publication  
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Application  
**EP 21720530 A 20210427**

Priority

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Abstract (en)  
[origin: WO2021219641A1] The invention relates to a membrane (10) which is able to change from a configuration in which it is wound around a first Z axis to a configuration in which it is deployed along a second X axis substantially perpendicular to the first Z axis, comprising: a. a main substrate (11) comprising an upper surface (12) covered at least partially with a first layer (13) comprising a first thermoplastic polymer, b. at least one electrically conductive track (14), c. a photovoltaic unit (15) comprising a secondary substrate (16) and at least one photovoltaic cell (17) attached to an upper surface (18) of the secondary substrate (16), the photovoltaic unit (15) being designed to produce an electrical current, and being electrically connected to the at least one electrically conductive track (14), the secondary substrate (16) comprising a lower surface (19) opposite the upper surface (18) of the secondary substrate (16) and oriented towards the upper surface (12) of the main substrate (11), the lower surface (19) of the secondary substrate (16) being at least partially covered with a second layer (23) comprising a second thermoplastic polymer, the lower surface (19) of the secondary substrate (16) of the photovoltaic unit (15) and the upper surface (12) of the main substrate (11) being at least partially heat-welded.

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