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Anti-reflective film of photovoltaic cell, has columnar elements having maximum wavelength below light, that is formed over light injection region of photoelectric conversion element, for converting light energy into electric energy

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ANTIREFLECTION FILM, SOLAR BATTERY CELL, METHOD FOR MANUFACTURING ANTIREFLECTION FILM, AND METHOD FOR MANUFACTURING SOLAR BATTERY CELL

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Abstract of JP2011119740 (A)

PROBLEM TO BE SOLVED: To provide a multilayer antireflection film achieving low reflectance over a wide band and a wide incident angle range. ; SOLUTION: An antireflection film 10 is composed of a plurality of dielectric layers (11, 12) laminated on the light receiving surface of a photoelectric conversion element 30. In at least one layer of the plurality of dielectric layers, microstructures (columnar bodies 15) are formed over a region which light enters, wherein a width in the longitudinal direction of each microstructure is equal to or less than the maximum wavelength of the light converted into electricity by the photoelectric conversion element. ; COPYRIGHT: (C)2011,JPO&INPIT