

# Tile solar cell patent

The invention relates to a solar cell tile which can be directly laid on the roof of a building and is characterized by comprising a solar panel and a tile body, wherein the solar panel...

[0001] This invention relates to a photovoltaic cell module tile which is used as roofing material of buildings and on which a photovoltaic cell module is mounted.

One embodiment can provide a method for fabricating a photovoltaic roof tile module. The fabrication method can include obtaining one or more back glass covers and forming a pre-laid circuit on a respective back glass cover.

Justia Patents Solar Heat Collector US Patent for Solar roof tile Patent (Patent # 10,756,669) Solar roof tile . ... Each solar cell within the solar panel is protected by an electrical diode within the series circuitry to minimize the effect of "shadowing" for example as the incident light on the solar cells vary due to cloud movements. If one solar cell is shadowed, its performance is ...

US4210122 relates to fluid cooled solar cell roof tiles. However the fluid pipes are not connected to furring strips or battens.

Building integrated photovoltaic (BIPV) systems provide for solar panel arrays that can be aesthetically pleasing to an observer. BIPV systems can be incorporated as part of roof surfaces as built into the structure of the roof, particularly as photovoltaic modules having the appearance of a plurality of roofing tiles that each have photovoltaic cells.

Accordingly, the solar-cell tile as a solar-cell module capable of filling the role as a tile is molded. **PROBLEM TO BE SOLVED:** To decrease the number of external connections without...

The solar cell tile is light in weight and simple in installation procedure and does not damage the roof structure of the building. The utility model relates to a solar cell tile which...

A PV roof tile (or solar roof tile) is a type of PV module shaped like a roof tile and typically enclosing fewer solar cells than a conventional solar panel. Note that such PV roof tiles can function as both PV cells and roof tiles at the same time. PV roof tiles and modules are described in more detail in U.S. Provisional Patent Application No. 62/465,694, entitled ...

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Application No. 62/465,694, Attorney ...

Solar Roof is comprised of both glass solar tiles and steel roofing tiles. Glass solar tiles produce energy, while architectural-grade steel tiles add longevity and corrosion resistance to your roof. Both are durable, strong and engineered for all-weather protection. With a 25-year warranty, Solar Roof will continue to produce clean energy and protect your home for decades to come.

A solar cell roof tile includes a front support layer, a transparent encapsulant layer, a plurality of interconnected solar cells and a backskin layer. The front support layer is ...

A roof tile comprises an upper protective layer, under which a photovoltaic cell is mounted, wherein the upper protective layer is formed from polyethylene terephthalate, and ...

There are a number of ways that the patent application says Solar Roof tiles can work without looking like solar panels. One way is that the solar cell itself can be blended &quot;into the surrounding ...

Accordingly, the solar-cell tile as a solar-cell module capable of filling the role as a tile is molded. **PROBLEM TO BE SOLVED:** To decrease the number of external connections without damaging appearance by placing a plurality of solar cells on one base material in a solar- cell tile having an integral surface form of a plurality of tiles are unified.

Solar cells. Tesla solar tiles are currently available in two color options: blue and black. They are made of highly durable tempered glass capable of withstanding the elements and providing superior solar energy capture. ...

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