

Title (en)
SOLAR CELLS WITH THICK ALUMINUM CONTACTS.

Title (de)
SONNENZELLE MIT DICKEN ALUMINIUMKONTAKTEN.

Title (fr)
PILES SOLAIRES A CONTACTS D'ALUMINIUM EPAIS.

Publication
EP 0597080 A4 19941102 (EN)

Application
EP 93913801 A 19930506

Priority
• US 9304235 W 19930506
• US 88912292 A 19920527

Abstract (en)
[origin: WO9324960A1] An improved photovoltaic cell and method of making same is disclosed. The invention involves formation of a thick aluminum rear contact (12). In the preferred embodiment the cell is made by a single fire process that involves forming a glass layer (18) over the aluminum contact (12) so as to protect it against oxidation and corrosion. Also in the preferred embodiment of the invention, the rear side of the substrate preferably includes silver soldering pads (16) that extend through openings (28) in the thick aluminum rear contact (12), and the glass layer (18) has windows (28) exposing portions of the soldering pads (16) for solder attachment of connecting wire ribbons.

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H01L 31/02167 (2013.01); **H01L 31/022425** (2013.01); **H01L 31/068** (2013.01); **Y02E 10/547** (2013.01)

Citation (search report)
• [A] WO 8900342 A1 19890112 - MOBIL SOLAR ENERGY CORP [US]
• [A] ROSS: "THE USE OF EUTECTIC ALLOYS IN SCREENED CONTACTS", THE CONFERENCE RECORD OF THE 14TH PHOTOVOLTAIC SPECIALISTS CONFERENCE JANUARY 7-10, 1980, SAN DIEGO, CALIFORNIA, US ; PAGES 1406-1407
• See references of WO 9324960A1

Designated contracting state (EPC)
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