

Title (en)

A METHOD OF MANUFACTURING WORKING ELECTRODES FOR DYE SENSITISED SOLAR CELLS

Title (de)

VERFAHREN ZUR HERSTELLUNG VON ARBEITSELEKTRODEN FÜR FARBSTOFFSENSIBILISIERTE SOLARZELLEN

Title (fr)

PROCÉDÉ DE FABRICATION D'ÉLECTRODES DE TRAVAIL POUR CELLULES SOLAIRES À COLORANT

Publication

**EP 2457243 A1 20120530 (EN)**

Application

**EP 10742425 A 20100723**

Priority

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- EP 2010004538 W 20100723
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Abstract (en)

[origin: WO2011009631A1] A method of manufacturing working electrodes for series connected dye sensitised solar cells in a continuous reel-to-reel production line comprising the steps of: i. Providing a metal carrier strip substrate having a first side and a second side; ii. Providing an organic electrically insulating layer on the first side of the metal carrier substrate having a temperature resistance in the range of 200 °C to 600 °C; iii. Providing an organic conductive layer on the electrically insulating layer having a temperature resistance in the range of 200 °C to 600 °C, optionally comprising conductive inorganic additives; iv. Scribing the organic conductive layer at regular intervals to divide the organic conductive layer into cells that are electrically separated; v. Providing a metal oxide layer on the scribed organic conductive layer; vi. Sintering the metal oxide layer; vii. Sensitising the sintered metal oxide layer with a dye.

IPC 8 full level

**H01G 9/20** (2006.01)

CPC (source: EP)

**H01G 9/2022** (2013.01); **H01G 9/2027** (2013.01); **H01G 9/2081** (2013.01); **H01G 9/2095** (2013.01); **H10K 71/60** (2023.02); **H10K 71/621** (2023.02); **Y02E 10/542** (2013.01); **Y02P 70/50** (2015.11)

Citation (search report)

See references of WO 2011009631A1

Citation (examination)

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- ANONYMOUS: "Temperature Resistance of Thermoplastics", ELASTOMERS AND THERMOPLASTICS ENGINEERING DESIGN GUIDE, 15 July 2014 (2014-07-15), XP055169342, Retrieved from the Internet <URL:http://www.mnrubber.com/Design\_Guide/5-3.html> [retrieved on 20150212]
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