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(54) Title: SOLAR CELL ELECTRODE, AND METHOD FOR MANUFACTURING THE SAME, AND PASTE FOR THE SOLAR CELL ELECTRODE

(57) Abstract: The invention relates to a paste for forming a solar cell electrode, comprising electrically conductive metal particles, glass frit, a cross-linkable agent, a photo polymerization initiator and organic solvent, wherein the content of the cross-linkable agent is 1.0 to 20.0 wt %, the content of the photo polymerization initiator is 0.2 to 15.0 wt%, the content of the organic solvent is greater than 1.0 wt%, based on the total weight of the paste, and wherein over 90 wt% of the organic solvent based on the total weight of the organic solvent has a boiling point at 85°C or higher.



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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US 12/23752

A. CLASSIFICATION OF SUBJECT MATTER

IPC(8) - H01L 31/00 (2012.01)

USPC - 136/256

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC(8): H01L 31/00 (2012.01)

USPC: 136/256

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

IPC(8): H01L 31/00 (2012.01)

USPC: 136/243; 136/244

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

PubWEST; PGPB, USPT, EPAB, JPAB; Google Scholar; Google Patent; Search Terms: PV solar photovoltaic conductive paste glass frit powder cross-link polymerize alloy print Inkjet electrode bus organic solvent viscosity monomer UV lamp exposure ultra-violet wafer substrate

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2010/0136484 A1 (Ito et al.) 03 June 2010 (03.06.2010) para. [0009] through [0118]	1 and 3-9
Y		2 and 10-16
Y	US 2010/0084757 A1 (Hariharan et al.) 08 April 2010 (08.04.2010) para. [0105], [0106], [0124], [0151], Fig. 7	2
Y	US 2010/0018565 A1 (Funakoshi) 28 January 2010 (28.01.2010) para. [0065], [0093], [0115] through [0119], [0153].	10-16
A	US 2010/0294353 A1 (Takahashi) 25 November 2010 (25.11.2010) entire document	1-16
A	US 2010/0236621 A1 (Konno et al.) 23 September 2010 (23.09.2010) entire document	1-16

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"P" document published prior to the international filing date but later than the priority date claimed

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