

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211009134 A

(19) INDIA

(22) Date of filing of Application :21/02/2022

(43) Publication Date : 25/11/2022

(54) Title of the invention : PRINTABLE SOLAR CELL

(51) International classification :H01L0031180000, H01L0031022400, H01M0004860000, B41F0015080000, H01M0008100400

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Chitkara University

Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. -----

2)Chitkara Innovation Incubator Foundation

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)PANDEY, Rahul

Address of Applicant :Assistant Professor, Department of Electronics and Communication Engineering, Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. -----

2)SWAMY, Darryl Anderson

Address of Applicant :8. U. K. Dutta Road Sarachi Abasan, Flat D3, Phase 1, Dum Dum Cantonment Kolkata - 700028, West Bengal, India. -----

3)MADAN, Jaya

Address of Applicant :Assistant Professor, Department of Electronics and Communication Engineering, Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. -----

(57) Abstract :

The present disclosure relates to a method for fabricating a printable solar cell. The method includes screen printing a first layer on the first surface of the FTO glass material. The first layer comprises a mixture of a first semiconductor wafer powder and a polymer binder. Screen printing a second layer over the first layer, and the second layer comprises a second semiconductor wafer powder and a polymer binder. Screen printing an electrode on the second layer. The electrode comprises a back electrode powder and polymer binder.

No. of Pages : 10 No. of Claims : 6