07/27/2017 504475827

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4522529

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	EXECUTIVE ORDER 9424, CONFIRMATORY LICENSE

CONVEYING PARTY DATA

Name	Execution Date
PLANT PV, INCORPORATED	07/24/2017

RECEIVING PARTY DATA

Name:	National Science Foundation
Street Address:	4201 Wilson Blvd
Internal Address:	Room 1265
City:	Arlington
State/Country:	VIRGINIA
Postal Code:	22230

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14493346

CORRESPONDENCE DATA

Fax Number: (703)292-9041

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent

using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Email: nsfpatents@nsf.gov

Correspondent Name: NATIONAL SCIENCE FOUNDATION

Address Line 1: 4201 WILSON BLVD

Address Line 2: **ROOM 1265**

Address Line 4: ARLINGTON, VIRGINIA 22230

NAME OF SUBMITTER:	DANA THIBODEAU
SIGNATURE:	/DMT/
DATE SIGNED:	07/27/2017

Total Attachments: 1 source=3628#page1.tif

> **PATENT** 504475827

REEL: 043350 FRAME: 0435

License to the United States Government

Sign and submit the executed document to the appropriate funding agency (e.g. upload in iEdison). Invention Title: CORE-SHELL NICKEL ALLOY COMPOSITE PARTICLE METALLIZATION LAYERS FOR SILICON SOLAR CELLS Inventor(s): Brian E Hardin, Steve T Connor, James R Groves, Craig A Peters U.S. Filing/Issue Date: 09/23/2014 Patent or Application Serial No.: 14/493, 346 Grant/Contract Number(s): 1315284, 1430721 Foreign Applications filed/intended in (countries): The invention identified above is a Subject Invention under 35 U.S.C. 200, et seq., and the Standard Patent Rights clause at 37 CFR 401.14, FAR 52.227-11 or FAR 52.227-12 (if applicable) which are included among the terms of the above identified grant or contract award from the United States Government. This document is confirmatory of: The nonexclusive, nontransferable, irrevocable, paid-up license to practice or have practiced for or on behalf of the United States the invention described in any patent application and in any and all divisions, continuations, and continuations in part, and in any and all patents and re-issues granted thereon throughout the world; and All other rights acquired by the Government by reason of the above identified grant/contract award and the laws and regulations that are applicable to the award. The Government is hereby granted an irrevocable power to inspect and make copies of the above-identified patent application. Signed this 24世 day of July

By おれれた HARDIN (Institutional Business Official) Title Co-Faundes FOR PLANT PV, INC. (Grantee/Contractor Organization) At 3707 NAUGHTON AVE. BELMONT, CA 94002 (Business Address)

> PATENT REEL: 043350 FRAME: 0436

RECORDED: 07/27/2017