

<b>PATENT ASSIGNMENT COVER SHEET</b>
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Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT4940690

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	EXECUTIVE ORDER 9424, CONFIRMATORY LICENSE
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
SHARP LABORATORIES OF AMERICA, INC.	04/11/2018
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	U.S. DEPARTMENT OF ENERGY
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<b>City:</b>	WASHINGTON
<b>State/Country:</b>	D.C.
<b>Postal Code:</b>	20585
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	14503822
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<b>SIGNATURE:</b>	/Brenda K. Banks/
<b>DATE SIGNED:</b>	05/01/2018
<b>Total Attachments: 1</b>	
source=SLA3454 ARPA-E's Confirmatory License Form - fully executed#page1.tif	



## CONFIRMATORY LICENSE

**Title of Invention:** Hybrid Trough Solar Power System Using Photovoltaic Two-Stage Light Concentration

**Inventor(s):** Brian M. Wheelwright, Wei Pan, and Douglas J. Tweet

**Patent Application Serial No:** 14/503,822

**Filing Date:** October 1, 2014

**Patent Number:** 9,773,934

**Issue Date:** September, 26, 2017

**Name of Organization:** Sharp Laboratories of America, Inc. **Name of Assignee:** Sharp Kabushiki Kaisha

**ARPA-E Award/Contract No.:** DE-AR0000465

The named Organization has reported the above-identified Invention as a Subject Invention to DOE and has elected to retain title thereto.

This document is confirmatory of (1) the nonexclusive, nontransferable, irrevocable, paid-up, world-wide license in this subject invention, patent application and any resulting patent (including any continuation, divisional, reissue, or supplemental application thereof) to practice or to have practiced for or on behalf of the United States throughout the world; (2) all other rights acquired by the Government through the intellectual property provisions of the above-identified contract/award; and (3) all intellectual property, licensing, and manufacturing requirements imposed by the above-identified contract/award.

It is understood and agreed that this license does not preclude the Government from (1) asserting rights under the provisions of said contract/award or any other agreement between the Government and the named Organization, or (2) asserting any other Government rights with respect to the above-identified subject invention.

The Government is hereby granted an irrevocable power to inspect and make copies of the above-identified patent application.

Signed this 11<sup>th</sup> day of April, 2018

Name & Title of Organization's Authorized Representative (Typed): David C Ripma, V.P. and Patent Counsel, MIIcs IP, Inc., Attorney for Sharp Laboratories of America, Inc.

Authorized Representative's Signature

If ownership of the elected subject invention has been assigned: Mototaka Taneya, Managing Officer, BU President, Corporate Research and Development BU

Name & Title of Assignee's Authorized Representative (Typed)

Authorized Representative's Signature

**PATENT**