## PATENT ASSIGNMENT

# Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
ROBERT W. BIRKMIRE	06/17/2010
STEVEN S. HEGEDUS	06/17/2010
UJJWAL K. DAS	06/17/2010

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#### PROPERTY NUMBERS Total: 1

Property Type	Number		
Application Number:	12817705		

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ATTORNEY DOCKET NUMBER: UOD-287US

NAME OF SUBMITTER: ANDREW J. KOOPMAN

Total Attachments: 2

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PATENT

REEL: 024564 FRAME: 0175

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ASSIGNMENT - Patent Application			Doc	Docket Number: <u>UOD-287US</u>		
Whereas, the Assi	gnor, con	prising the following named inver	ntors:			
	1. ROBERT W. BIRKMIRE			2. STEVEN S. HEGEDUS		
ASSIGNOR(s)/ INVENTOR(s)	3. <b>UJJ</b>	NAL K. DAS		4.		
	5.			6.		
made an inventior	made an invention entitled: PROCESSES FOR FABRICATING ALL-BACK-CONTACT HETEROJUNCTION PHOTOVOLTAIC CELLS					
(Select one of the fo	for which an application for Letters Patent of the United States: (Select one of the following):					
is executed concurrently herewith was filed in the U.S. Patent and Trademark Office on, as U.S. Patent Application Serial No.:						
ASSIGNEE (Full Name and Address)  UNIVERSITY OF DELAWARE 210 HULLIHEN HALL NEWARK, DE 19716-1551						
is desirous of aco	uirina the	entire interest in and to said inver	ntion	and the Letters Patent to be obtained therefor,		
Now, therefore, in consideration of the payment by Assignee to Assignor of a sum corresponding to One Dollar (\$1.00), and for other good and valuable consideration, the receipt of which is hereby acknowledged, Assignor, intending to be legally bound, hereby sells, assigns and transfers to Assignee, its successors and assigns, the full and exclusive right, title and interest in and to said invention, all applications for Letters Patent for said invention, including all divisions, continuations, and continuations-in-part thereof, all rights to claim priority based thereon, and all Letters Patent, including reissues, to be obtained therefor, including any and all foreign patent rights in this invention corresponding thereto.						
Assignor hereby warrants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this Assignment.						
Assignor agrees it shall be legally bound, upon request of the Assignee or its successors or assigns or a legal representative thereof, to supply all information and evidence of which the Assignor has knowledge or possession, relating to the making and practice of said invention, to testify in any legal proceeding relating thereto, to execute all instruments proper to patent the invention in the United States of America and foreign countries in the name of the Assignee, and to execute all instruments proper to carry out the intent of this instrument.						
If the invention requires a biological deposit, Assignor also grants to Assignee such control over any deposit made by Assignor as may be necessary to the validity of the patent rights assigned herein.						

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# ASSIGNMENT - Patent Application

Docket Number: UOD-287US

Assignor authorizes Assignor's attorney to insert at the end hereof, the serial number and filing date of the aforesaid application for United States Letters Patent and/or the Attorney Docket or file designation for this application if not identified above.

If the Assignor includes more than one individual, these obligations shall apply to these individuals both individually and collectively.

In witness whereof, this Assignment is executed on the day indicated below.

Typed or Printed		Name Signature		Date
•	1. ROBERT W. BIR		That N. Bah	6-17-2010
SIGNATURE	2. STEVEN S. HEG	EDUS	#Witness to Assignor #1  Steven & Negedus	6-17-2010
		and the second s	Witness to Assignor #2	6/17/2010
	3. UJJWAL K. DAS	i	Mion Mitto	6-17-2010
			Witness to Assignor #3	
	4.		* Witness to Assignor #4	
	5.			
	to the first production and the first production of the first of the f		* Witness to Assignor #5	
	6.			
		age has my think before the	* Witness to Assignor #6	
	Living States Lottors	Patent:		
	United States Letters	12/8	<b>17,7</b> 05	
Serial No.:			/2010	
Filed:				
	ttorney Docket Number: UOD-287US  * Witness signature recommended, mandatory for some commended and the commended and th			mandatory for some countries
Total Number	otal Number of Assignment Pages 2 * Witness signature recommended, mandatory for some cost			

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PATENT REEL: 024564 FRAME: 0177

**RECORDED: 06/21/2010**