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RECORDATION FORM COVER SHEET PATENTS ONLY

To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

1. Name of conveying party(ies)

Xunming Deng

2. Name and address of receiving party(ies)

Name: The University of Toledo

Internal Address: _____

Street Address: 2801 W. Bancroft Street

City: Toledo

State: Ohio

Country: US Zip: 43606

Additional name(s) & address(es) attached? Yes No

Additional name(s) of conveying party(ies) attached? Yes No

3. Nature of conveyance/Execution Date(s):

Execution Date(s) March 6, 2008

- Assignment Merger
- Security Agreement Change of Name
- Joint Research Agreement
- Government Interest Assignment
- Executive Order 9424, Confirmatory License
- Other

4. Application or patent number(s):

This document is being filed together with a new application.

A. Patent Application No.(s)

11/899,799 filed September 7, 2007

B. Patent No.(s)

Additional numbers attached? Yes No

5. Name and address to whom correspondence concerning document should be mailed:

Name: Catherine B. Martineau

Internal Address: _____

MacMillan, Sobanski & Todd, LLC

Street Address: One Maritime Plaza, Fifth Floor

720 Water Street

City: Toledo

State: OH Zip: 43604

Phone Number: (419) 255-5900

Fax Number: (419) 255-9639

Email Address: martineau@mstfirm.com

6. Total number of applications and patents involved:

1

7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00

- Authorized to be charged by credit card
- Authorized to be charged to deposit account
- Enclosed
- None required (government interest not affecting title)

8. Payment Information

a. Credit Card Last 4 Numbers _____

Expiration Date _____

b. Deposit Account Number 13-0005

Authorized User Name MacMillan Sobanski Todd

9. Signature:

Catherine B. Martineau
Signature

March 6, 2008

Date

Catherine B. Martineau, Reg. No. 31,854
Name of Person Signing

Total number of pages including cover

3

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to:
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CH \$40.00 130005 11899799

ASSIGNMENT

Attorney Docket No. 1-29222/PHYS00402B

WHEREAS I,

Xunming Deng, of 7749 Sandia Court, Sylvania, Ohio 43560

have made certain inventions in a

HYBRID WINDOW LAYER FOR PHOTOVOLTAIC CELLS,

the specification of which has *United States Serial No. 11/899,799*, filed *September 7, 2007*, which is a divisional application of *United States Serial No. 10/696,545*, filed *October 29, 2003*, and

WHEREAS, *The University, of Toledo, of 2801 W. Bancroft Street, Toledo, Ohio*, organized and operating in the State of Ohio, herein called "ASSIGNEE", is desirous of acquiring our entire right, title, and interest in said invention and application therefor, and in any patent or patents to be obtained therefor;

NOW, THEREFORE, To All Whom It May Concern, be it known that, for and in consideration of the sum of One Dollar (\$1.00), and other good and valuable considerations, the receipt of which is hereby acknowledged, I have sold, assigned, and transferred, and by these presents do hereby sell, assign, transfer and convey unto said Assignee the entire right, title and interest (a) in and to said Inventions, including the right to claim priority to said Inventions; (b) in and to all rights to all United States and corresponding non-United States patent applications and Patent(s), including those filed under the Paris Convention for the Protection of Industrial Property, The Patent Cooperation Treaty or otherwise; (c) in and to any and all applications filed and any and all Patent(s) granted on said Inventions in the United States, in any foreign country, or under any international convention, agreement, protocol, or treaty, including each and every application filed and any and all Patent(s) granted on any application which is a divisional, substitution, continuation, or continuation-in-part of any of said Application(s); and (d) in and to each and every reissue, reexamination, or extensions of any of said Patent(s).

And I further covenant and agree that I will, at the request and expense of the said Assignee, execute such other and further assurances of title as may be necessary or proper to fully convey the interest herein sought to be conveyed; that I will, at the request and expense of the said Assignee, execute such application papers as may be desired by the said Assignee for the filing of any division or renewal of the application herein conveyed, or for the reissues or extensions of any Letters Patent that may be granted upon said application, and will execute such Supplemental Oaths and Preliminary Statements, or other papers as desired by the said Assignee.

And I further assign unto the said Assignee our whole right, title, and interest to the invention disclosed in the application throughout all countries foreign to the United States, and do hereby authorize the said Assignee to apply for patents therefor in its own name in countries where such procedure is proper and to claim the benefit of the International Convention and do agree to execute applications for the said invention in the several countries where it is necessary that the same be executed by the inventors, and to execute assignments of such applications and the patents to be obtained therefor to the said assignee, as well as all other necessary papers.

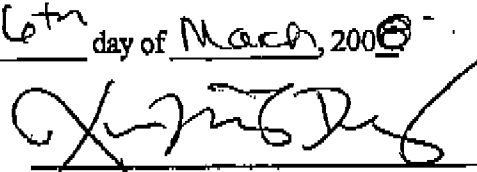
I do hereby authorize and request the Commissioner of Patents or other proper Officer, to issue such Letters Patent, or any of them, to the said Assignee, as the assignee of our entire right, title, and interest in and to the same for the sole use and behalf of the said Assignee, and its successors or assigns.

ASSIGNMENT

Attorney Docket No. 1-29222/PHYS00402B

IN TESTIMONY WHEREOF I have hereunto set my hand and affixed my seal at


Toledo (city), Ohio (state), this 6th day of March, 2008


Xunming Deng

STATE OF Ohio

COUNTY OF Lucas :ss

This 6th day of March, 2008 before me, a Notary Public in and for the County aforesaid, personally appeared Xunming Deng, personally known to me and known to be the person described in and who executed the foregoing assignment and acknowledged the same to be his voluntary act and deed, and that he executed the same for the uses and purposes therein set forth.


Leslie B. Urbanski
Notary Public

