## PATENT ASSIGNMENT

# Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

### **CONVEYING PARTY DATA**

Name	Execution Date
Tobin J. Marks	03/22/2007
Alexander W. Hains	03/22/2007
Michael D. Irwin	03/22/2007
He Yan	03/22/2007

### **RECEIVING PARTY DATA**

Name:	Northwestern University	
Street Address:	633 Clark Street	
City:	Evanston	
State/Country:	ILLINOIS	
Postal Code:	60208	

## PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	12046929

### **CORRESPONDENCE DATA**

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ATTORNEY DOCKET NUMBER:	16936-64925
NAME OF SUBMITTER:	Tim T. Xia

Total Attachments: 5

PATENT REEL: 023884 FRAME: 0414 40 00 120469

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#### ASSIGNMENT

WHEREAS, We/I, Tobin J. MARKS, Alexander W. HAINS, Michael D. IRWIN, each a citizen of the United States of American; and He YAN, a citizen of the People's Republic of China, all residing in Illinois, U.S.A., have invented new and useful improvements for which we filed a U.S. patent application in the United States Patent and Trademark Office on March 12, 2007, which is entitled "Electron-Blocking Layer / Hole-Transport Layer for Organic Photovoltaics and Applications of Same," and was assigned U.S. Serial No. 60/906,456.

AND WHEREAS, **Northwestern University**, a corporation organized and existing under and by virtue of the laws of the State of Illinois, and having a place of business at 633 Clark Street, Evanston, Illinois 60208, U.S.A., (hereinafter "Assignee") is desirous of acquiring the entire right, title and interest in and to said inventions, improvements and application and in and to the Letters Patent 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 and other good and valuable considerations, the receipt and sufficiency whereof is hereby acknowledged, we/I have sold, assigned, and transferred, and by these presents do sell, assign and transfer unto said Assignee, its successors or assigns, the entire right, title and interest for all countries in and to all inventions and improvements disclosed in the aforesaid application, and in and to the application, all divisionals, continuations, or renewals thereof, all Letters Patent which may be granted therefrom, and all reissues or extensions of such patents, and in and to any and all applications which have been or shall be filed in any foreign countries for Letters Patent on the inventions and improvements, including an assignment of all rights under the provisions of the International Convention, and all Letters Patent of foreign countries which may be granted therefrom; and we/I do hereby authorize and request the Commissioner of Patents and Trademarks to issue any and all United States Letters Patent for the aforesaid inventions and improvements to the Assignee as the assignee of the entire right, title and interest in and to the same, for the use of the Assignee, its successors and assigns.

AND, for the consideration aforesaid, we/I do hereby agree that we/I and our/my executors and legal representatives will make, execute and deliver any and all other instruments in writing

including any and all further application papers, affidavits, assignments and other documents, and will communicate to said Assignee, its successors and representatives all facts known to us/me relating to said improvements and the history thereof and will testify in all legal proceedings and generally do all things which may be necessary or desirable more effectually to secure to and vest in said Assignee, its successors or assigns the entire right, title and interest in and to the improvements, inventions, applications, Letters Patent, rights, titles, benefits, privileges and advantages hereby sold, assigned and conveyed, or intended so to be.

AND, furthermore we/I covenant and agree with said Assignee, its successors and assigns, that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by us/me and that full right to convey the same as herein expressed is possessed by us/me.

We/I also authorize counsel for Applicant to enter above the serial number of the application or other related information when it becomes available.

IN IESTIMONY WHI	EREOF, I have hereunto set my hand this $\frac{22}{2}$ day of
	Tobin J. MARKS
STATE OF 1CL	_ )
STATE OF 1CC COUNTY OF CCC K On this	) ss. ) day of <u>Mately</u> , 2007, before me personally appeared <b>Tobin</b> mown to me to be the person described in and who executed the
J. MARKS to me known and k	cnown to me to be the person described in and who executed the
foregoing instrument, and he de	uly acknowledged to me that he executed the same for the uses and
purposes therein set forth. [SEAL]	Mole Mole Public
OFFICIAL SEAL JOANN G METE	

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MY COMMISSION EXPIRES: 07-21-07

OFFICIAL SEAL JOANN G METE NOTARY PUBLIC - STATE OF ILLINOIS MY COMMISSION EXPIRES: 07-21-07

IN TESTIMONY WHEREOF, I have hereunto set my hand this day of
March , 2007
Alexander W. HAINS
Alexanuer W. HAINS
STATE OF)
STATE OF)  COUNTY OF
On this day of 7764, 2007, before me personally appeared
Alexander W. HAINS to me known and known to me to be the person described in and who
executed the foregoing instrument, and he duly acknowledged to me that he executed the same for
the uses and purposes therein set forth
[SEAL] Joan Mele
Notary Public

IN IESTIMONY WHEREOF, I have hereunto set my hand this day of
March, 2007.
Michael D. IRWIN
STATE OF)
COUNTY OF COCK ) ss.
On this day of
Michael D. IRWIN to me known and known to me to be the person described in and who executed
the foregoing instrument, and he duly acknowledged to me that he executed the same for the uses and
purposes therein set forth.
[SEAL] (SCALL) Mete
OFFICIAL SEAL JOANN G METE NOTARY PUBLIC - STATE OF ILLINOIS MY COMMISSION FXPIRES: 07.21.07

IN IESTIMONY WHEREOF, I have hereunto set my hand this day of
March, 2007.
De Coc
He YAN
STATE OF 1 ) ss. COUNTY OF COOK )
COUNTY OF COOK
On this day of Mokel, 2007, before me personally appeared He  YAN to me known and known to me to be the person described in and who executed the foregoing
YAN to me known and known to me to be the person described in and who executed the foregoing
instrument, and he duly acknowledged to me that he executed the same for the uses and purposes
therein set forth
[SEAL] Received Meter Motary Public
OFFICIAL SEAL JOANN G METE NOTARY PUBLIC - STATE OF ILLINOIS MY COMMISSION EXPIRES: 07-21-07
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