04/15/2011

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4-7-11	103623	3219		
To the Director of the U.S. Patent and Trac			documents or the new address(es) be	low.
1. Name of conveying party(ies)	U.S. PTO		dress of receiving party(ies)	
Shaik Mohammad Zakeeruddin (January 31, 2007)	13/066114	Name: Ecole Polyte	echnique Fédérale de Lausanne (EPFL)	
Michaél Graetzel (January 31, 2007) Cédric Klein (February 8, 2007) Peng Wang (February 12, 2007)	04/07/2011		: SRI-CM2, Station 10	
Additional name(s) of conveying party(ies) attact				
3. Nature of conveyance/Execution I	Date(s):	Street Address		
Execution Date(s) See above	erger		And the second s	
	City: CH-1015 Lausa	anne		
Security Agreement L Ch				
Joint Research Agreement		State:		
Government Interest Assignment		Country. SWITZERL	AND ZIP'	
Executive Order 9424, Confirmatory License			r	673
Other Swiss Corporation			& address(es) attached? Yes	
4. Application or patent number(s):	X This	=	filed together with a new app	lication.
A. Patent Application No.(s)		B. Patent No.	.(5)	
A	additional numbers at	tached? Yes	No	
5. Name and address to whom corrections on the concerning document should be made and the concerning document should be made as the concerning document should be accordanced by the concerning document should be a	espondence ailed:	6. Total number involved: 1	of applications and patents	;
Name: Clifford W. Browning of Krieg DeVault Li	LP	7. Total fee (37	CFR 1.21(h) & 3 41) \$_40.00	
Internal Address:			, ,	
		Authorized	to be charged to deposit accou	unt
Street Address: One Indiana Square, Suite 2800		X Enclosed	•	
		None required (government interest not affecting title)		
City: Indianapolis		8. Payment Info	ormation	
State: IN ZIP 4	16204	į		
Phone Number: (317) 238-6203				
Fax Number: _(317) 636-1507		Deposit Account Number		
Email Address. pdocketing@kdlegal.com	Authorized	d User Name		
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9. Signature: Cufbus	Signature	/	April 7, 2011 Date	
61# 1W 9	-	Tr	otal number of pages including cover	
Clifford W. Bro			heet, attachments, and documents	5

Documents to be recorded (Including cover sheet) should be faxed to (571) 273-0140, 57 millied to 13865114

Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box \$350 (A) 820 and ria, V.A. 22313-1450

Name of Person Signing

WHEREAS, Shaik Mohammad ZAKEERUDDIN, Avenue Longemalle 12, CH-1020 Renens, Switzerland hereinafter referred to as Assignor, has made a new and useful invention in

2, 2-BIPYRIDINE LIGAND, SENSITIZING DYE AND DYE SENSITIZED SOLAR CELL

which is found in International Patent Application No PCT/CH 2005/000452, filed on July 29, 2005, and for which Assignor will make application for Letters Patent of the United States; and

WHEREAS, Ecole Polytechnique Fédérale de Lausanne (EPFL), with address at SRI-CM2, Station 10, CH-1015 Lausanne, Switzerland, hereinafter referred to as Assignee, desires to acquire 100% of the right, title, and interest in, to and under said invention disclosed, described and claimed or intended so to be in said application, and in, to and under said application, and in, to and under any and all Letters Patent, United States and foreign, which may be obtained thereof and thereon;

NOW, THEREFORE, to all and whom it may concern, be it known that for and in consideration of the sum of One Dollar (\$1.00) and other good, valuable and sufficient considerations to Assignor in hand paid, the receipt of which is hereby acknowledged, Assignor has sold, assigned and transferred, and by these presents does sell, assign and transfer unto Assignee, 100% of the right, title, and interest in, to and under said invention disclosed, described and claimed or intended so to be in said application, and any and all other applications thereon and arising therefrom, including any and all divisions and continuations thereof, and any and all divisions and continuations thereof, and any and all patents to be issued and obtained therefor and thereon, United States and foreign, including all reissues and extensions thereof.

Assignor hereby authorizes and requests the firm of Krieg DeVault LLP, One Indiana Square, Suite 2800, Indianapolis, IN 46204-2079, to insert here in parentheses (Serial No <u>11/658,780</u>, Filed March 28 20 07) the date and serial number of said application for Letters Patent of the United States when officially known, and Assignor hereby authorizes and requests the Honorable Commissioner of Patents to issue said Letters Patent to Assignee, its assigns and legal representatives.

Assignor agrees to sign and execute any and all other papers necessary and desirable for the procurement of Letters Patent on said invention in this and all foreign countries for the use of Assignee

WITNESS Assignor's hands this 31 day of January, 2007

Shaik Mohammad ZAKEERUDDIN

S.M. Zakardini

PATENT REEL: 026205 FRAME: 0713

WHEREAS, Michaël GRAETZEL, Chemin de Marquisat 7a, CH-1025 St-Sulpice, Switzerland, hereinafter referred to as Assignor, has made a new and useful invention in

2, 2-BIPYRIDINE LIGAND, SENSITIZING DYE AND DYE SENSITIZED SOLAR CELL

which is found in International Patent Application No. PCT/CH 2005/000452, filed on July 29, 2005, and for which Assignor will make application for Letters Patent of the United States; and

WHEREAS, Ecole Polytechnique Fédérale de Lausanne (EPFL), with address at SRI-CM2, Station 10, CH-1015 Lausanne, Switzerland, hereinafter referred to as Assignee, desires to acquire 100% of the right, title, and interest in, to and under said invention disclosed, described and claimed or intended so to be in said application, and in, to and under said application, and in, to and under any and all Letters Patent, United States and foreign, which may be obtained thereof and thereon;

NOW, THEREFORE, to all and whom it may concern, be it known that for and in consideration of the sum of One Dollar (\$1.00) and other good, valuable and sufficient considerations to Assignor in hand paid, the receipt of which is hereby acknowledged, Assignor has sold, assigned and transferred, and by these presents does sell, assign and transfer unto Assignee, 100% of the right, title, and interest in, to and under said invention disclosed, described and claimed or intended so to be in said application, and any and all other applications thereon and arising therefrom, including any and all divisions and continuations thereof, and any and all patents to be issued and obtained therefor and thereon, United States and foreign, including all reissues and extensions thereof.

Assignor hereby authorizes and requests the firm of Krieg DeVault LLP, One Indiana Square, Suite 2800, Indianapolis, IN 46204-2079, to insert here in parentheses (Serial No. 11/658,780 Filed March 28 2007) the date and serial number of said application for Letters Patent of the United States when officially known, and Assignor hereby authorizes and requests the Honorable Commissioner of Patents to issue said Letters Patent to Assignee, its assigns and legal representatives.

Assignor agrees to sign and execute any and all other papers necessary and desirable for the procurement of Letters Patent on said invention in this and all foreign countries for the use of Assignee.

WITNESS Assignor's hands this 31 day of Junuary, 2007.

Michael GRAETZEL

Miles & for

PATENT REEL: 026205 FRAME: 0714

WHEREAS, Peng WANG, Chemin de Montelly 70, CH-1007 Lausanne, Switzerland, hereinafter referred to as Assignor, has made a new and useful invention in

2, 2-BIPYRIDINE LIGAND, SENSITIZING DYE AND DYE SENSITIZED SOLAR CELL

which is found in International Patent Application No PCT/CH 2005/000452, filed on July 29, 2005, and for which Assignor will make application for Letters Patent of the United States; and

WHEREAS, Ecole Polytechnique Fédérale de Lausanne (EPFL), with address at SRI-CM2, Station 10, CH-1015 Lausanne, Switzerland, hereinafter referred to as Assignee, desires to acquire 100% of the right, title, and interest in, to and under said invention disclosed, described and claimed or intended so to be in said application, and in, to and under said application, and in, to and under any and all Letters Patent, United States and foreign, which may be obtained thereof and thereon;

NOW, THEREFORE, to all and whom it may concern, be it known that for and in consideration of the sum of One Dollar (\$1.00) and other good, valuable and sufficient considerations to Assignor in hand paid, the receipt of which is hereby acknowledged, Assignor has sold, assigned and transferred, and by these presents does sell, assign and transfer unto Assignee, 100% of the right, title, and interest in, to and under said invention disclosed, described and claimed or intended so to be in said application, and any and all other applications thereon and arising therefrom, including any and all divisions and continuations thereof, and any and all divisions and continuations thereof, and any and all patents to be issued and obtained therefor and thereon, United States and foreign, including all reissues and extensions thereof.

Assignor hereby authorizes and requests the firm of Krieg DeVault LLP, One Indiana Square, Suite 2800, Indianapolis, IN 46204-2079, to insert here in parentheses (Serial No. <u>11/658,780</u> Filed <u>March 28</u> 20 <u>07</u> the date and serial number of said application for Letters Patent of the United States when officially known, and Assignor hereby authorizes and requests the Honorable Commissioner of Patents to issue said Letters Patent to Assignee, its assigns and legal representatives.

Assignor agrees to sign and execute any and all other papers necessary and desirable for the procurement of Letters Patent on said invention in this and all foreign countries for the use of Assignee.

WITNESS Assignor's hands this 12th day of February , 2007.

Peng WANG

PATENT REEL: 026205 FRAME: 0715

WHEREAS, Cédric KLEIN, Avenue du Grey 45, CH-1018 Lausanne, Switzerland, hereinafter referred to as Assignor, has made a new and useful invention in

2, 2-BIPYRIDINE LIGAND, SENSITIZING DYE AND DYE SENSITIZED SOLAR CELL

which is found in International Patent Application No. PCT/CH 2005/000452, filed on July 29, 2005, and for which Assignor will make application for Letters Patent of the United States; and

WHEREAS, Ecole Polytechnique Fédérale de Lausanne (EPFL), with address at SRI-CM2, Station 10, CH-1015 Lausanne, Switzerland, hereinafter referred to as Assignee, desires to acquire 100% of the right, title, and interest in, to and under said invention disclosed, described and claimed or intended so to be in said application, and in, to and under said application, and in, to and under any and all Letters Patent, United States and foreign, which may be obtained thereof and thereon;

NOW, THEREFORE, to all and whom it may concern, be it known that for and in consideration of the sum of One Dollar (\$1 00) and other good, valuable and sufficient considerations to Assignor in hand paid, the receipt of which is hereby acknowledged, Assignor has sold, assigned and transferred, and by these presents does sell, assign and transfer unto Assignee, 100% of the right, title, and interest in, to and under said invention disclosed, described and claimed or intended so to be in said application, and any and all other applications thereon and arising therefrom, including any and all divisions and continuations thereof, and any and all divisions and continuations thereof, and any and all divisions and continuations thereof, and any and all patents to be issued and obtained therefor and thereon, United States and foreign, including all reissues and extensions thereof.

Assignor hereby authorizes and requests the firm of Krieg DeVault LLP, One Indiana Square, Suite 2800, Indianapolis, IN 46204-2079, to insert here in parentheses (Serial No.11/658,780 Filed March 28 20 07) the date and serial number of said application for Letters Patent of the United States when officially known, and Assignor hereby authorizes and requests the Honorable Commissioner of Patents to issue said Letters Patent to Assignee, its assigns and legal representatives.

Assignor agrees to sign and execute any and all other papers necessary and desirable for the procurement of Letters Patent on said invention in this and all foreign countries for the use of Assignee.

WITNESS Assignor's hands this aday of February, 2007

Cédric KLEIN

PATENT REEL: 026205 FRAME: 0716

RECORDED: 04/07/2011