

## PATENT ASSIGNMENT

Electronic Version v1.1  
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT								
NATURE OF CONVEYANCE:	ASSIGNMENT								
CONVEYING PARTY DATA									
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>JON-CHAO HONG</td> <td>04/24/2013</td> </tr> <tr> <td>CHAO-HSIN WU</td> <td>04/24/2013</td> </tr> <tr> <td>MEI-YUNG CHEN</td> <td>04/24/2013</td> </tr> </tbody> </table>		Name	Execution Date	JON-CHAO HONG	04/24/2013	CHAO-HSIN WU	04/24/2013	MEI-YUNG CHEN	04/24/2013
Name	Execution Date								
JON-CHAO HONG	04/24/2013								
CHAO-HSIN WU	04/24/2013								
MEI-YUNG CHEN	04/24/2013								
RECEIVING PARTY DATA									
Name:	NATIONAL TAIWAN NORMAL UNIVERSITY								
Street Address:	NO. 162, SEC. 1, HEPING E. RD., DA'AN DIST.								
City:	TAIPEI CITY								
State/Country:	TAIWAN								
Postal Code:	10610								
PROPERTY NUMBERS Total: 1									
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13886498</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13886498				
Property Type	Number								
Application Number:	13886498								
CORRESPONDENCE DATA									
Fax Number:	(317)636-1507								
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>									
Phone:	3176364341								
Email:	ipdocketing@kdlegal.com								
Correspondent Name:	CLIFFORD W. BROWNING								
Address Line 1:	ONE INDIANA SQUARE								
Address Line 2:	SUITE 2800								
Address Line 4:	INDIANAPOLIS, INDIANA 46204								
ATTORNEY DOCKET NUMBER:	NTNU-1								
NAME OF SUBMITTER:	SARA E. VESSELY								
Signature:	/Sara E. Vessely/								

Date:

10/02/2013

Total Attachments: 2

source=2013\_10\_02\_Assignment\_NTNU-1#page1.tif

source=2013\_10\_02\_Assignment\_NTNU-1#page2.tif

ASSIGNMENT & APPLICANT INFORMATION

WHEREAS, I/We, whose full legal names, mailing addresses and residence addresses appear below hereinafter referred to as ASSIGNOR, have invented certain new and useful improvements in the application identified above (hereinafter referred to as THE INVENTION or design, if applicable) for which a patent is sought;

WHEREAS, National Taiwan Normal University, whose mailing address is  
No. 162, Sec. 1, Heping E. Rd., Da'an Dist., Taipei City 10610, Taiwan

(hereinafter referred to as ASSIGNEE), is desirous of acquiring the entire right, title and interest in and to said application and the invention(s) and improvement(s) therein disclosed, for the United States of America, and any Letters Patent which may issue therefor in the United States and all divisions, continuations, reissues, renewals and/or extensions thereof.

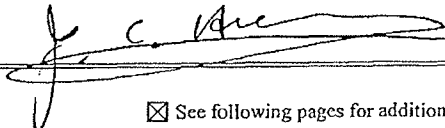
NOW, THEREFORE, for good and valuable consideration, receipt of which is hereby acknowledged, we, ASSIGNOR does hereby assign, sell, transfer and set over unto the ASSIGNEE the entire right, title and interest in and to said application and the invention(s) and improvement(s) therein disclosed, for the United States of America, and any Letters Patent which may issue therefor in the United States and all divisions, continuations, reissues, renewals and/or extensions thereof, said ASSIGNEE to have and to hold the interests herein assigned to the full ends of the terms of said Letters Patent and any and all divisions, continuations, reissues, renewals and/or extensions thereof, respectively, as fully and entirely as the same would have been held and enjoyed by the ASSIGNOR had this assignment not been made.

ACCORDINGLY, ASSIGNOR hereby acknowledges ASSIGNEE as sole APPLICANT for and to said INVENTION (design, if applicable) as defined under *Title 37, Code of Federal Regulations §§1.42 and 1.46*, and as defined and recognized under all available international conventions and treaties in respect of said INVENTION (design, if applicable).


ALSO, ASSIGNOR hereby agrees to execute any documents that legally may be required in connection with the filing, prosecution and maintenance of said application or any other patent application(s) or inventor certificate(s) in the United States, including additional documents that may be required to affirm the rights of ASSIGNEE in and to said

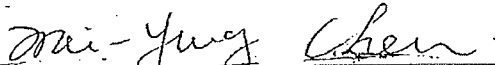
INVENTION, all without further consideration. ASSIGNOR also agrees, without further consideration and at ASSIGNEE'S expense, to identify and communicate to ASSIGNEE at ASSIGNEE'S request documents and information concerning the INVENTION (design, if applicable) that are within ASSIGNOR'S possession or control, and to provide further assurances and testimony on behalf of ASSIGNEE that lawfully may be required of ASSIGNOR in respect of the prosecution, maintenance and defense of any patent application or patent encompassed within the terms of this instrument. ASSIGNOR'S obligations under this instrument shall extend to ASSIGNOR'S heirs, executors, administrators and other legal representatives.

ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks to issue any and all United States Letters Patent referred to above to ASSIGNEE of the entire right, title and interest in and to the same, for ASSIGNEE'S sole use and behalf; and for the use and behalf of ASSIGNEE'S legal representatives and successors, to the full end of the term for which such Letters patent may be granted, as fully and entirely as the same would have been held by ASSIGNOR had this assignment and sale not been made.

<i>Full Legal Name of First or Sole Inventor (First and Middle + FAMILY NAME or SURNAME)</i> Jon-Chao HONG			
<i>Residence Address - Street</i> 3F., No. 6, Ln. 188, Sec. 1, Heping E. Rd., Da'an Dist.		<i>Mailing Address - Street</i> 3F., No. 6, Ln. 188, Sec. 1, Heping E. Rd., Da'an Dist.	
<i>City</i> Taipei City		<i>City</i> Taipei City	
<i>State or Country</i> Taiwan	<i>Postal Code</i> 10645	<i>State or Country</i> Taiwan	<i>Postal Code</i> 10645
<i>SIGNATURE</i> 		<i>DATE</i> April 24, 2013	

See following pages for additional joint inventors.

<i>Full Legal Name of Next Inventor (First and Middle + FAMILY NAME or SURNAME)</i> Chao-Hsin WU			
<i>Residence Address - Street</i> 13F.-1, No. 10, Aly. 20, Ln. 142, Sec. 6, Roosevelt Rd., Wenshan Dist.		<i>Mailing Address - Street</i> 13F.-1, No. 10, Aly. 20, Ln. 142, Sec. 6, Roosevelt Rd., Wenshan Dist.	
<i>City</i> Taipei City		<i>City</i> Taipei City	
<i>State or Country</i> Taiwan	<i>Postal Code</i> 11670	<i>State or Country</i> Taiwan	<i>Postal Code</i> 11670
<i>SIGNATURE</i> 		<i>DATE</i> April 24, 2013	

<i>Full Legal Name of Next Inventor (First and Middle + FAMILY NAME or SURNAME)</i> Mei-Yung CHEN			
<i>Residence Address - Street</i> 4F., No. 9, Aly. 17, Ln. 207, Sec. 3, Xinglong Rd., Wenshan Dist.		<i>Mailing Address - Street</i> 4F., No. 9, Aly. 17, Ln. 207, Sec. 3, Xinglong Rd., Wenshan Dist.	
<i>City</i> Taipei City		<i>City</i> Taipei City	
<i>State or Country</i> Taiwan	<i>Postal Code</i> 11697	<i>State or Country</i> Taiwan	<i>Postal Code</i> 11697
<i>SIGNATURE</i> 		<i>DATE</i> April 24, 2013	

<i>Full Legal Name of Next Inventor (First and Middle + FAMILY NAME or SURNAME)</i>			
<i>Residence Address - Street</i>		<i>Mailing Address - Street</i>	
<i>City</i>		<i>City</i>	
<i>State or Country</i>	<i>Postal Code</i>	<i>State or Country</i>	<i>Postal Code</i>
<i>SIGNATURE</i>		<i>DATE</i>	

<i>Full Legal Name of Next Inventor (First and Middle + FAMILY NAME or SURNAME)</i>			
<i>Residence Address - Street</i>		<i>Mailing Address - Street</i>	
<i>City</i>		<i>City</i>	
<i>State or Country</i>	<i>Postal Code</i>	<i>State or Country</i>	<i>Postal Code</i>
<i>SIGNATURE</i>		<i>DATE</i>	