

# PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
Qin Huang	05/02/2006
Siroj Sirisukprasert	05/12/2006
RECEIVING PARTY DATA	
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PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	11277594
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ATTORNEY DOCKET NUMBER:	3530/1US
NAME OF SUBMITTER:	W. Thad Adams, III
Total Attachments: 3 source=3530-1US-huangetal-asn#page1.tif	

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**PATENT**  
**REEL: 017871 FRAME: 0101**

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## ASSIGNMENT

We, **Qin Huang**, a citizen of the United States and residing at 2408 Chelmsford Court, Cary, North Carolina 27511 U.S.A., and **Siroj Sirisukprasert**, a citizen of Thailand and residing at 204/4 Soi Ladprao 10, Jompon, Jatujak, Bangkok 10900 Thailand, in consideration of the sum of \$1.00 (One Dollar), and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, do hereby sell, assign and transfer unto **North Carolina State University**, a non-profit organization of North Carolina, and having an office at 920 Main Campus Drive, Suite 400, Raleigh, North Carolina 27606-8210 U.S.A., ("ASSIGNEE"), the entire right, title and interest, together with all rights of priority, in and to our invention for certain improvements in **METHOD AND CIRCUIT FOR CASCADED PULSE WIDTH MODULATION**, as described in the Application Serial No. 11/277,594, filed in the United States Patent and Trademark Office on the 27<sup>th</sup> day of March, 2006, preparatory to obtaining Letters Patent of the United States therefor and as described and/or claimed in any and all applications for Letters Patent based thereon including divisions, continuations and reissues thereof as well as all foreign counterparts thereof together with all Letters Patent issuing on any of the aforesaid applications for Letters Patent, the same to be held and enjoyed by ASSIGNEE, its successors, assigns or other legal representatives, to the full ends of the terms of all said Letters Patent therefor which may be granted.

AND WE HEREBY AUTHORIZE ASSIGNEE to make applications for and to receive Letters Patent for said invention in any foreign countries in its own name, or in our names, at its election.

AND WE HEREBY COVENANT AND AGREE that we will execute or procure any further necessary assurance of title to said invention and any Letters Patent which may issue therefor and that we will, at any time, upon the request and at the expense of ASSIGNEE deliver any testimony in any legal proceedings and execute all papers that may be necessary or desirable to perfect the title to said invention or any Letters Patent which may be granted therefor in ASSIGNEE, its successors, assigns, or other legal representatives, and that we will, at any time, upon the request and at the expense of

ASSIGNEE execute any continuations, divisions, reissues, or any other additional applications for Letters Patent for said invention or any part or parts thereof, all of which applications and any Letters Patent issuing thereon are hereby assigned to ASSIGNEE, and will make all rightful oaths, and do all lawful acts requisite for procuring the same therein, without further compensation, but at the expense of ASSIGNEE, its successors, assigns or other legal representatives.

AND WE HEREBY AUTHORIZE AND REQUEST the Commissioner of Patents and Trademarks to issue any and all Letters Patent of the United States for said invention, resulting from any of the aforesaid applications to said **North Carolina State University**, as sole ASSIGNEE.

WITNESS OUR hand and seal on the day listed below:

5-2-06  
Date

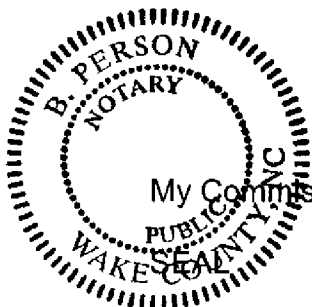
[Signature]  
Qin Huang

NOTARY ACKNOWLEDGMENT

STATE OF North Carolina  
COUNTY OF Wake

I, B Person, a Notary Public for said County and State do hereby certify that Qin Huang appeared before me personally and signed the aforementioned Assignment.

This the 2nd day of May, 20 06.



[Signature]  
Notary Public B Person

Date

Siroj Sirisukprasert

ASSIGNEE execute any continuations, divisions, reissues, or any other additional applications for Letters Patent for said invention or any part or parts thereof, all of which applications and any Letters Patent issuing thereon are hereby assigned to ASSIGNEE, and will make all rightful oaths, and do all lawful acts requisite for procuring the same therein, without further compensation, but at the expense of ASSIGNEE, its successors, assigns or other legal representatives.

AND WE HEREBY AUTHORIZE AND REQUEST the Commissioner of Patents and Trademarks to issue any and all Letters Patent of the United States for said invention, resulting from any of the aforesaid applications to said **North Carolina State University**, as sole ASSIGNEE.

WITNESS OUR hand and seal on the day listed below:

\_\_\_\_\_  
Date **Qin Huang**

NOTARY ACKNOWLEDGMENT

STATE OF \_\_\_\_\_

COUNTY OF \_\_\_\_\_

I, \_\_\_\_\_, a Notary Public for said County and State do hereby certify that **Qin Huang** appeared before me personally and signed the aforementioned Assignment.

This the \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_.

\_\_\_\_\_  
Notary Public

My Commission Expires \_\_\_\_\_

SEAL

May 12, 2006  
Date *Siroj Sirisukprasert*  
**Siroj Sirisukprasert**