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ET U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office

Tab settings

To the Director of the United States Patent and Trademark Office. See attached original documents or copy thereof.

1. Name of conveying party(ies): Ming Xu, Julu Sun, Jinghai Zhou, Fred C. Lee. Additional names(s) of conveying party(ies) [] Yes [X] No

2. Name and address of receiving party(ies): Name: Virginia Polytechnic Institute & State University. Internal Address: Street Address: City: Blacksburg State: VA ZIP: 24060. Additional name(s) & address(es) attached? [] Yes [X] No

3. Nature of conveyance: [X] Assignment [] Merger [] Security Agreement [] Change of Name [] Other. Execution Date: 3/15/05, 3/15/05, 3/15/05, 3/15/05

4. Application number(s) or patent numbers(s): If this document is being filed together with a new application, the execution date of the application is: A. Patent Application No.(s) 11/094,438 filed 3/31/05. B. Patent No.(s). Additional numbers attached? [] Yes [X] No

6. Total number of applications and patents involved: 1. 7. Total fee (37 CFR 3.41): \$ 40.00. [X] Enclosed - Any excess or insufficiency should be credited or debited to deposit account. [] Authorized to be charged to deposit account. 8. Deposit account number: 50-2041. (Attach duplicate copy of this page if paying by deposit account)

5. Name and address of party to whom correspondence concerning document should be mailed: Name: Marshall M. Curtis. Internal Address: Street Address: Whitham, Curtis & Christofferson, P.C. 11491 Sunset Hills Road, Suite 340. City: Reston State: VA ZIP: 20190

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Statement and signature. In the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Marshall M. Curtis - Reg. No. 33,138. Signature: Marshall M. Curtis. Date: April 29, 2005. Name of Person Signing. Signature. Date. Total number of pages including cover sheet, attachments, and document: 3

Mail documents to be recorded with required cover sheet information to: Mail Stop Assignment Recordation Services Director of the United States Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450

PATENT REEL: 016504 FRAME: 0920

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ASSIGNMENT

WHEREAS, Ming Xu, Julu Sun, Jinghai Zhou, and Fred C. Lee all of Blacksburg, Virginia, (hereinafter referred to as ASSIGNORS), have invented certain new and useful improvements in an invention entitled:

SELF-DRIVEN SCHEME FOR SYNCHRONOUS RECTIFIER

for which an application for United States Letters Patent is being filed concurrently; and

WHEREAS, Virginia Polytechnic Institute & State University, (hereinafter referred to as ASSIGNEE), an institute of higher education organized under the laws of the Commonwealth of Virginia, having an office and principal place of business at Blacksburg, Virginia, is desirous of acquiring the entire right, title and interest in, to and under said application and said invention and in, to and under Letters Patent or similar legal protection to be obtained therefor in the United States and in any and all foreign countries.

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that in consideration of the payment by ASSIGNEE to ASSIGNORS of the sum of One Dollar (\$1.00), the receipt and sufficiency of which is hereby acknowledged, and for other good and valuable consideration, ASSIGNORS hereby sell, assign and transfer to ASSIGNEE, its lawful successors and assigns, the full and exclusive right, title and interest to said invention in the United States and its territorial possessions and in all foreign countries and to all Letters Patent or similar legal protection in the United States and its territorial possessions and in any and all foreign countries to be obtained for said invention by said application or any continuation, division, continuation-in-part, reexamination, renewal, substitute, extension or reissue thereof or any legal equivalent thereof in a foreign country for the full term or terms for which the same may be granted; and authorize and request the Commissioner of Patents of the United States and any official of any foreign country whose duty it is to issue patents or legal equivalents thereto, to issue same for this invention to ASSIGNEE, its lawful successors and assigns.

ASSIGNORS hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment and sale.

ASSIGNORS further covenant that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said application, said invention and said Letters Patent and legal equivalents in foreign countries as may be known and accessible to ASSIGNORS and will testify as to the same in any interference or litigation related thereto and will promptly execute and deliver to ASSIGNEE or its legal representative any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof in any foreign country which may be necessary or desirable to carry out the purposes thereof.

IN WITNESS WHEREOF, ASSIGNOR has caused the hand of its proper office to be subscribed hereto this 5th day of MARCH, 2005.

Witnessed by:

Teresa Shaw

Ming Xu
Ming Xu

IN WITNESS WHEREOF, ASSIGNOR has caused the hand of its proper office to be subscribed hereto this 1st day of MARCH, 2005.

Witnessed by:

Teresa Shaw

Julu Sun
Julu Sun

IN WITNESS WHEREOF, ASSIGNOR has caused the hand of its proper office to be subscribed hereto this 5th day of MARCH, 2005.

Witnessed by:

Teresa Shaw

Jinghai Zhou
Jinghai Zhou

IN WITNESS WHEREOF, ASSIGNOR has caused the hand of its proper office to be subscribed hereto this 15th day of MARCH, 2005.

Witnessed by:

Teresa Shaw

Fred C. Lee
Fred C. Lee