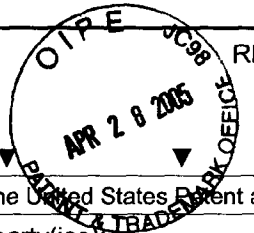


4/28/05

Docket No.: 01640505AA

FORM PTO-1565 (Modified)
(Rev. 03-01)
OMB No. 0651-0027 (exp.5/31/2002)
P08/REV03



05-03-2005



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1. Name of conveying party(ies):
Ming Xu
Fred C. Lee
Jinghai Zhou

Additional names(s) of conveying party(ies) Yes No

2. Name and address of receiving party(ies):

Name: Virginia Polytechnic Institute and State University

Internal Address: _____

Street Address: _____

City: Blacksburg State: VA ZIP: 24060

Additional name(s) & address(es) attached? Yes No

3. Nature of conveyance:

Assignment Merger

Security Agreement Change of Name

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Execution Date: 03/15/05, 03/15/05, 03/15/05

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)
11/094,433 filed 03/31/2005

Additional numbers attached? Yes No

B. Patent No.(s)

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: 20109

6. Total number of applications and patents involved: **1**

7. Total fee (37 CFR 3.41):.....\$ 40.00

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Marshall M. Curtis - Reg. No. 33,138

Name of Person Signing

Marshall M. Curtis

Signature

April 28, 2005

Date

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PATENT
REEL: 016506 FRAME: 0514

ASSIGNMENT

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

INPUT CURRENT SENSING AVP METHOD FOR FUTURE VRM

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.

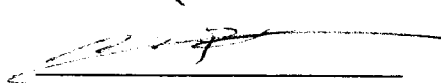
ASSIGNORS hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment and sale.

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 15th day of MARCH, 2005.

Witnessed by:

Teresa Chow


Ming Xu

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

Witnessed by:

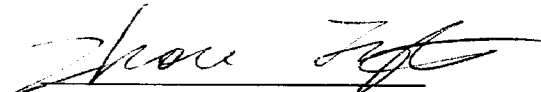
Teresa Chow


Fred C. Lee

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 Chow


Jinghai Zhou