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To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

| | |
|---|---|
| <p>1. Name of conveying party(ies): Virginia Polytechnic Institute and State University</p> <p>Additional names(s) of conveying party(ies) <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> | <p>2. Name and address of receiving party(ies):</p> <p>Name: Virginia Tech Intellectual Properties, Inc.</p> <p>Internal Address: _____</p> <p>Street Address: 1872 Pratt Drive - #1625</p> <p>City: Blacksburg State: VA ZIP: 24060</p> <p>Additional name(s) & address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> |
| <p>3. Nature of conveyance:</p> <p><input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger</p> <p><input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name</p> <p><input type="checkbox"/> Other _____</p> <p>Execution Date: 03/27/03</p> | |

4. Application number(s) or registration numbers(s):

If this document is being filed together with a new application, the execution date of the application is: _____

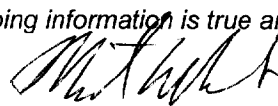
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|--|-------------------------|
| <p>A. Patent Application No.(s)</p> <p>10/330,576 filed 01/10/2003</p> | <p>B. Patent No.(s)</p> |
|--|-------------------------|

Additional numbers attached? Yes No

| | |
|--|---|
| <p>5. Name and address of party to whom correspondence concerning document should be mailed:</p> <p>Name: Michael E. Whitham</p> <p>Internal Address: _____</p> <p>Street Address: Whitham, Curtis & Christofferson, P.C.</p> <p>491 Sunset Hills Road, Suite 340</p> <p>City: Reston State: VA ZIP: 20190</p> | <p>6. Total number of applications and patents involved: 1</p> <p>7. Total fee (37 CFR 3.41):.....\$ 40.00</p> <p><input checked="" type="checkbox"/> Enclosed - Any excess or insufficiency should be credited or debited to deposit account</p> <p><input type="checkbox"/> Authorized to be charged to deposit account</p> <p>8. Deposit account number:</p> <p>50-2041</p> |
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9. Statement and signature.
To 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.

Michael E. Whitham  **April 8, 2003**

Name of Person Signing Signature Date

Total number of pages including cover sheet, attachments, and document: **3**

ASSIGNMENT OF APPLICATION FOR PATENT

WHEREAS

NAME AND ADDRESS
OF ASSIGNOR

**Virginia Polytechnic Institute & State
University**
Blacksburg, VA 24060

(HEREINAFTER REFERRED TO AS ASSIGNOR), have
invented and own a certain invention
entitled:

TITLE OF INVENTION:

**Step-Down Buck Converter with Full Bridge
Circuit**

for which application for Letters Patent of
the United States was filed Jan. 10, 2003
as Ser. No. 10/339,576.

WHEREAS

FULL NAME AND ADDRESS
OF ASSIGNEE

Virginia Tech Intellectual Properties, Inc.
(a non-stock corporation organized under the
Laws of the Commonwealth of Virginia)
1872 Pratt Drive-#1625
Blacksburg, VA 24060

(hereinafter referred to as ASSIGNEE), is
desirous of acquiring the entire interest in,
to and under said invention and the United
States Letters Patent to be obtained
therefor:

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN:

Be it known that in consideration of the
payment of ASSIGNEE to ASSIGNOR of the sum of
One Dollar (\$1.00), the receipt of which is
hereby acknowledged, and for other good and
valuable consideration, ASSIGNOR hereby
sells, assigns and transfers to ASSIGNEE the

(Assignment of Application for Patent -- page 2 of 2)

PATENT
REEL: 013934 FRAME: 0356

full and exclusive right, title and interest to said invention and all Letters Patent of the United States to be obtained therefor on said application or any continuation, division, renewal, substitute or reissue thereof for the full term or terms for which the same may be granted.

ASSIGNOR hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment and sale;

ASSIGNOR further covenants 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 as may be known and accessible to ASSIGNOR 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 and enforce said application, said invention and said Letters Patent which may be necessary or desirable to carry out the purposes hereof.

IN WITNESS WHEREOF, ASSIGNOR has caused the hand of its proper office to be subscribed hereto this 27 day of March, 2003.

Witnessed by:

VIRGINIA POLYTECHNIC INSTITUTE
AND STATE UNIVERSITY

Gerry M. Chevauet

Minnis Ridenour

By: Minnis Ridenour
Chief Operating Officer

(Assignment of Application for Patent -- page 2 of 2)