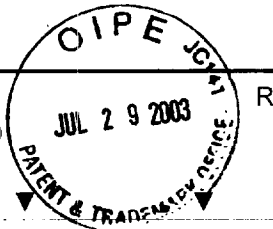


FCRM PTO-1595 (Modified)
(Rev. 03-01)
OMB No. 0651-0027 (exp 5/31/2002)
P08/REV03



08-01-2003



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7-29-03
Tab settings

To the Honorable Director of the United States Patent and Trademark Office: Please record the attached original documents or copy thereof.

<p>1. Name of conveying party(ies): Qin Huan Bin Zhang</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 Polytechnic Institute & State University</p> <p>Internal Address: _____</p> <p>Street Address: _____</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: February 28, 2003, February 28, 2003</p>	

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: N/A

<p>A. Patent Application No.(s)</p> <p>10/378,606</p>	<p>B. Patent No.(s)</p>
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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>07/31/2003 DBYRNE 00000219 10378606</p> <p>01 FD:8021 40.00 DP</p> <p>Street Address: Whitham, Curtis & Christofferson, P.C.</p> <p>11491 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: 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, Reg. No. 32,635 **July 29, 2003**

Name of Person Signing Signature

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

Docket: 01640302AA

ASSIGNMENT OF INVENTION

WHEREAS, WE, Qin Huan and Bin Zhang have invented certain new and useful improvements in IMPROVED EMITTER TURN-OFF THYRISTORS AND THEIR DRIVE CIRCUITS for which an U.S. Patent application was executed on _____ and

WHEREAS, Virginia Polytechnic Institute & State University, 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 hereinafter referred to as Assignee, is desirous of acquiring an interest in said invention and in any Letters Patent which may be granted therefor.

NOW THIS INDENTURE WITNESSETH, That for a valuable consideration, the receipt of which is hereby acknowledged, We hereby assign, sell and transfer unto the said assignee, the entire right, title and interest in and to inventions disclosed in said application and in and to any Letters Patent of the United States and in and to any Letters Patent or Inventor's Certificates of any and all foreign countries which may be granted therefor, and in and to any and all priority and/or Convention rights or benefits accruing or to accrue to us with respect to the filing or securing of patents in the United States and/or securing of patents or inventor's certificates in any and all countries foreign thereto.

AND we hereby grant to assignee the right to apply in its own name for patents or inventor's certificates corresponding to the above invention in countries foreign to the United States.

AND we hereby further agree to sign and properly execute such necessary and lawful papers for application for foreign patents and inventor's certificates for filing applications for United States, foreign patents and inventor's certificates for subdivisions of any applications for patent or inventor's certificate and/or for obtaining any reissue or reissues of any Letters Patent which may be granted for my aforesaid


Docket:01640302AA

invention and to perform such further acts as may be required to carry out the intent of this agreement as the assignee thereof shall hereafter require and prepare at assignee's expense.

WITNESSETH, my hand and seal this Feb 28 day of Feb, 2003.


Qin Huang

T Shaw
Witness


Bin Zhang