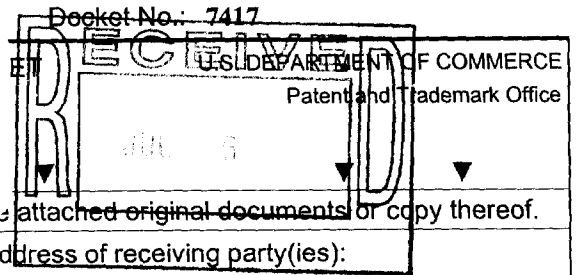


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07-12-1999



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Tab settings

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

1. Name of conveying party(ies):  
**Virginia Polytechnic Institute and State University**

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

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

Name: **Virginia Tech Intellectual Properties, Inc.**

Internal Address: **1900 Kraft Drive, Suite 107**

**Blacksburg, VA 24060**

Street Address: **1900 Kraft Drive, Suite 107**

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

Other

Execution Date: **September 17, 1996**

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: \_\_\_\_\_

A. Patent Application No.(s)

B. Patent No.(s)

**5,817,775**

Additional numbers attached?  Yes  No

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

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

Enclosed - Any excess or insufficiency should be credited or debited to deposit account

Authorized to be charged to deposit account

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: **James J. Mullen**

Internal Address: **P. Box Box 9077**

**Corpus Christi, TX 78469--9077**

Street Address: **1901 Clarkwood Road**

City: **Corpus Christi** State: **TX** ZIP: **78409**

8. Deposit account number:

**08-2454**

07/08/1999 DMSUYEN 00000302 082454 5817775

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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.

**James J. Mullen** *James J. Mullen* **June 29, 1999**

Name of Person Signing Signature Date

Total number of pages including cover sheet, attachments, and document: **5**

VIRGINIA POLYTECHNIC INSTITUTE AND STATE UNIVERSITY (hereinafter referred to as the "UNIVERSITY"), assigns to VIRGINIA TECH INTELLECTUAL PROPERTIES, INC. (hereinafter referred to as "VTIP") all rights, title and interest in and to all of the above-listed INVENTIONS as held by the UNIVERSITY.

The UNIVERSITY, by its authorized agents, agrees that it will execute all necessary assignments as requested by VTIP, to facilitate the filing of patent applications and/or copyright registrations. It will render any reasonable assistance requested to aid in preparation of such applications and/or registrations.

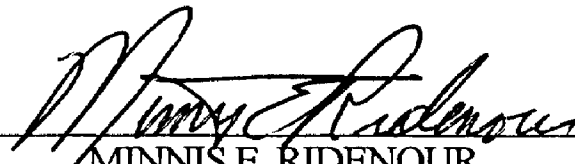
The UNIVERSITY shall retain the right to make use of the INVENTIONS for internal research and other non-commercial purposes without cost to the UNIVERSITY.

All royalties, rents, payments, or any cash receipts from the sale, assignment, transfer, licensing or use of the INVENTION shall be the property of VTIP and shall be distributed according to provisions of the current UNIVERSITY Intellectual Properties Policy.

Prior to the execution of this Assignment, the UNIVERSITY has not granted the right of license to make, use, or sell said INVENTION to anyone except to VTIP, nor has it otherwise encumbered its rights, title and interest in said INVENTION, and it will not execute any instrument in conflict with this Assignment.

IN WITNESS WHEREOF, the UNIVERSITY has caused this Assignment to be signed this 17 day of September, 1996.

VIRGINIA POLYTECHNIC INSTITUTE  
AND STATE UNIVERSITY

BY   
MINNIS E. RIDENOUR  
Executive Vice President

STATE OF VIRGINIA

COUNTY OF MONTGOMERY, to-wit:

The foregoing instrument was acknowledged before me this 17<sup>th</sup>  
day of September, 1996, by MINNIS E. RIDENOUR,  
\_\_\_\_\_ of Virginia Polytechnic Institute  
and State University, on behalf of said University.

Carolyn L. Rattiffe  
Notary Public

My commission expires: June 30, 1997

WORD: VTIPGRP.ASM

PATENT  
REEL: 010070 FRAME: 0905

GROUP ASSIGNMENT

DISCLOSURE NO.	TITLE
96-056	The Foursquare Antenna - An Element for Wideband Phased Arrays
96-057	New Continuous Current High Power Factor Electronic Ballast for Fluorescent Lamp
96-058	Method of Identification and Isolation of Disease Resistance Genes in Plants
96-059	Stud Loaded Helix Antenna
96-060	Circular-Doctor-Blading Technique for Slip-Casting Ceramic Thick Films on Inner Surfaces of Metal Tubes
Docket 7417 96-061	Tertiary Phosphines and Catalysts Containing the Same and Chemical Processes using Tertiary Phosphine Containing Catalysts S.N.08/731,232
96-062	A Device Utilizing the Elastica to Characterize Surface Energies of Solids